



Product Literature.

v.02



BS EN ISO 9001:2015
ISO 9001 Certification



ABOUT.

P&A Projects was established in 2003. We specialise in the total design, development and manufacture of standard and specialist lighting equipment for the industry. With a wealth of industry knowledge in the field backed by in-house design expertise, we can provide solutions for all your lighting requirements no matter how big or small your project.

We have successfully completed a diverse range of projects in areas including retail; commercial; industrial; public sector & residential.

Our standard product offering is usually just a starting point for this element of our business as we extensively turn this range into bespoke and project specific luminaires. We can take your requirements from conception through to final production, be it a variation of a standard modular luminaire or a complete special one off pendant, all of which is done in house and with maximum customer involvement at every stage to ensure your needs are met completely projects delivered with maximum satisfaction.

R&D.

At P&A we understand that every project does not necessarily have standard product that meets the specific requirements. This is where our in house design and manufacturing team can work together with you, to create a tailored custom solution that meets the project requirements.

Over the years P&A has always been at the forefront of investment in state-of-the-art machinery for our R&D department.

- Viso systems LabSpion Goniometer.
- Thermal chamber.
- Laplace Instruments Electromagnetic chamber.
- Raise 3D Pro 2 plus printer.

EMC Chamber.

P&A's in house EMC chamber allows us to examine the interaction between the luminaires and their environments. This examination allows us to prevent emission of large amounts of unwanted electromagnetic interference.



LabSpion Goniophotometer.

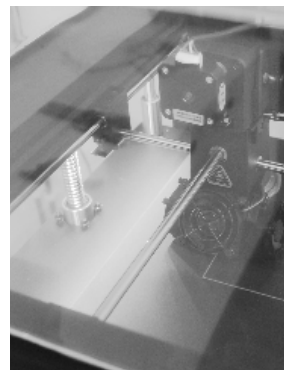
Our in house goniophotometer allows us to accurately assess the luminaire requirements of the project.

It also allows us to make alterations and test prototype luminaires prior to going through the final manufacturing stage.

Raise 3D Pro 2 plus Printer.

We have recently invested in a 3D printer, this allows our design team to make rapid prototypes of luminaire parts.

This development and innovation allows to research and develop quality luminaires in faster time-scales than traditional manufacturing processes.



PRODUCTION.

Over the years P&A has always been at the forefront of investment in state-of-the-art machinery, with an Amada HFB 8025 Press brake, Amada EM 2510 NT Punch press and Elumatec SBZ131 profile machining, available within our manufacturing facility.

Our Skilled workforce have vast of experience in the production and manufacturing of standard and bespoke luminaires.

Manufacturing offerings:

- Volume Manufacturing.
- Luminaire Prototyping

Luminaire Fabrication.

Going hand in hand with our bespoke luminaire design is our rapid sheet metal, machining & plastics prototyping facility which allows us to turn around pre-production samples in very short lead times.



Volume Manufacturing.

Our in house manufacturing including process automation & plastic fabrication allows us to handle quantities from 100-1000 off units.

Retro Fit.

Use our design and manufacturing service to upgrade your existing fluorescent luminaires to modern energy saving LED's.



LIGHTING DESIGN.

At P&A not only we design and develop luminaires, we can also produce lighting calculations with our luminaire range.

This in house capability with a vast knowledge in industry in producing design from interior to exterior allows us to showcase our products whilst ensuring the design meet relevant standards.

Lighting Standards

- CIBSE LG7 Office Lighting.
- BS EN 12464-1:2021.
- BS 5489-1:2020.

RELUX Lighting Software.

RELUX[®]

Our in house lighting & technical department use industry recognised lighting software to produce lighting calculations showcasing our products.

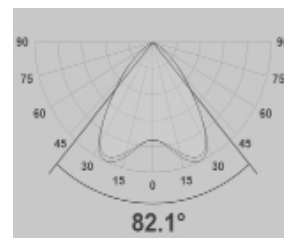


Photometric Data.

Being able to produce photometric files in house aids development times and allows us to produce accurate lighting calculations. In house we able to produce IES or LDT files of luminaire

Continuous Research.

P&A's in house labs allows us to test prototype luminaires, photo-metrical and thermally. This ability to test new and existing luminaires allows us to continuously develop our products ensuring they meet current standards.



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Exterior

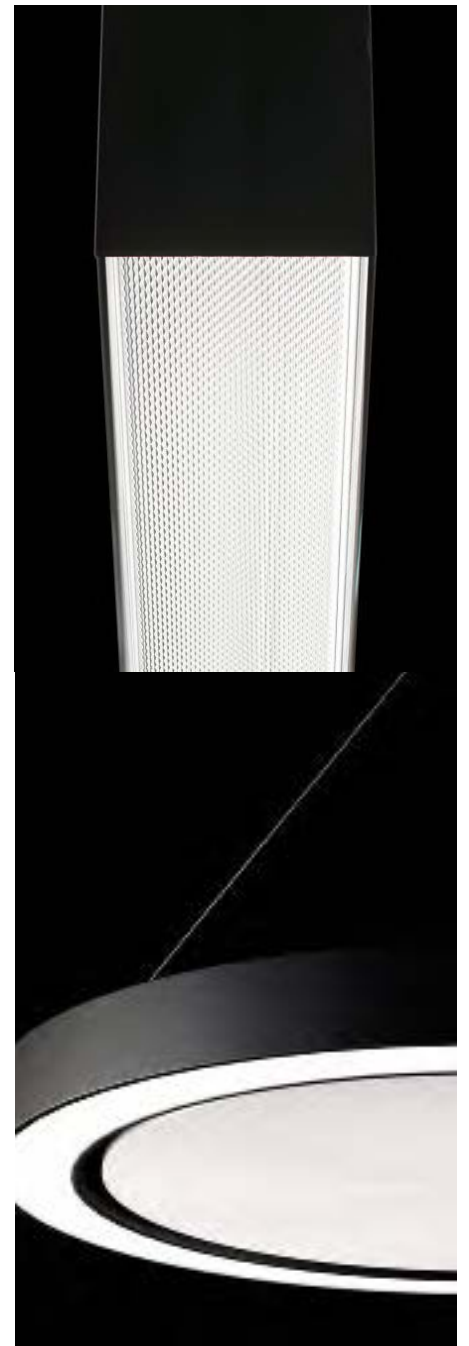
BOL
DECO
DT
Scorpius
SHK
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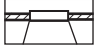
Suspended

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Anti Ligature

Astreo-AL
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AL-R02
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VR
VRC





3K 4K 2.7-5.7K

IP20



SubSpace 50R

Recessed

Subspace 50R is a recessed linear architectural luminaire, manufactured from extruded aluminium, with a profile dimension of 60mm x 80mm. Supplied as Direct, in standard or custom lengths, with a variety of optics to suit your needs.

- Efficacy of up to 115 lm/W.
- LG7 Complaint, UGR<19 (when used with microprism diffuser).
- Colour temperatures: 3000°k, 4000°k or Tunable White (2700°k - 5700°k).
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v, DALI 10-100% Dim.
- Wireless control options: Casambi.
- Industry driver options: Fixed output or Dali dimming, for extended service life.
- Mounting options: Recessed with Trim or Recessed with Trimless bracket.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3Hr Dali Wireless Sentinel.
- Square, or rectangular features are also available upon request*.
- Special projects, which may combine both wall & ceiling, using recessed, surface and suspended versions in a single line of light, are also available upon request*.
- Integrated PIR available upon request*.

Technical

Product	SubSpace 50R
Mounting type	Recessed
Standard Lengths	870-2970mm
Custom Lengths	140mm increments
Lumen/M	1100-5500 Lm/M
Efficacy	Up to 115 lm/W
Colour Temperature	Warm White (3K)
	Neutral White (4K)
	Tunable White (2.7K >5.7K)
Optics	Opal diffuser
	Microprism (UGR<19)
	Drop diffuser
	Daisy
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed Output, Industry DALI, Industry Fixed Output, DALI 10-100%
Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>75K

* Please contact P&A Technical Department for assistance

P&A SubSpace 50R

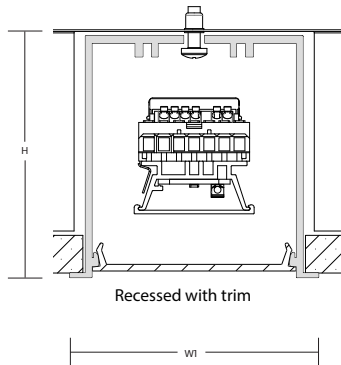
Luminaire Order Builder

SS50R

STEP 1. Select Frame	STEP 2. Current	STEP 3. Optics	STEP 4. Length	STEP 5. CCT	STEP 6. Control	STEP 7. Finish	STEP 8. Emergency
R Recessed with Trim	15 150mA 1100 Lm/M - 10W/m	O Opal Diffuser	870 870mm	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
TL Recessed with Trimless	20 200mA 1500 Lm/M - 14W/m	M Microprism UGR<19	1150 1150mm	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
	25 250mA 1900 Lm/M - 17W/m	DR Drop Diffuser	1430 1430mm	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
	30 300mA 2200 Lm/M - 20W/m	D Daisy	1710 1710mm		A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
	35 350mA 2600 Lm/M - 24W/m		1990 1990mm		A4 1-10v		
	40 400mA 3000 Lm/M - 27W/m		2270 2270mm		A5 Casambi		
			2550 2550mm		A6 Industry Fixed Output		
			2970 2970mm		A7 Industry DALI		
			XXXX Insert custom length (mm)		A8 DALI 10-100% Dim		

All electrical and optical data subject to ±10% tolerances. Values based on 4000K Colour temperature.

Example Code: SS50RR15011504KA1WE3



Dimensions

L	W	H
870	60	80
1150	60	80
1430	60	80
1710	60	80
1990	60	80
2270	60	80
2550	60	80
2970	60	80
Custom*	60	80

All dimensions are measured in millimetres (mm).
*Custom lengths upon request.
Dimension above based on Recessed with Trim. For Trimless frame dimensions please see installation instructions.
Please see installation instructions for all cut out sizes.

Finish

RAL	Code	Colour Swatch
White	9016M	
Black	9005	
Silver	9006	
Custom*	Custom*	

*Custom Colours upon request.

IP20

IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee



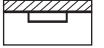
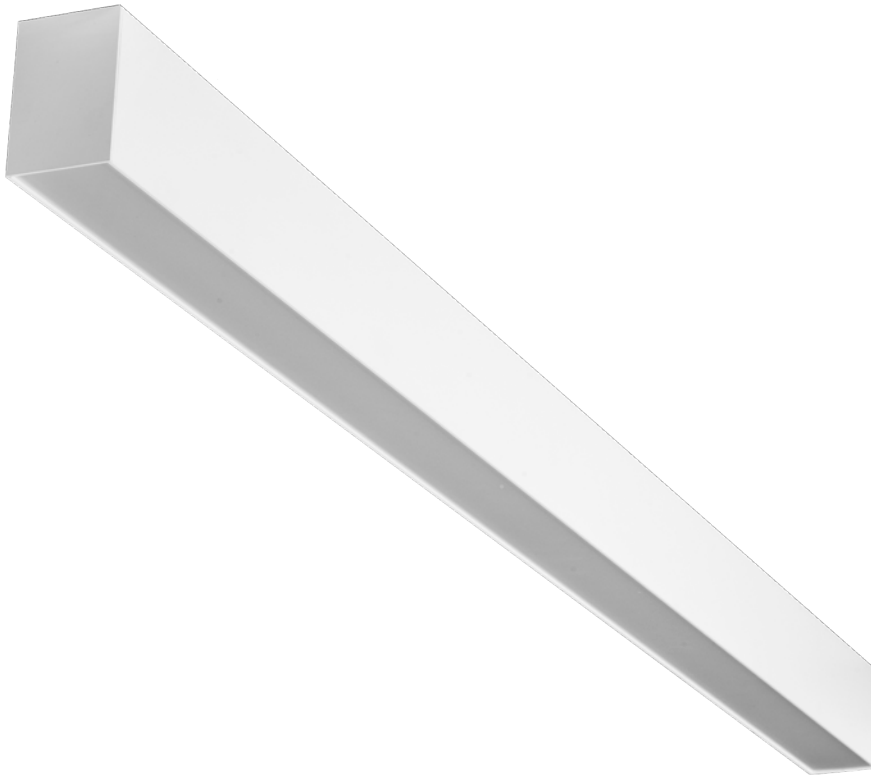
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Datasheet Code: PA-10430-0

CE BS EN60598-1:2015
ISO 9001 Certification

MADE IN BRITAIN

P&A



3K 4K 2.7-5.7K

IP20



SubSpace 50

Surface

Subspace 50 is a surface linear architectural luminaire, manufactured from extruded aluminium, with a profile dimension of 49mm x 85mm. Supplied as Direct, in standard or custom lengths, with a variety of optics to suit your needs.

- Efficacy of up to 115 lm/W.
- LG7 Complaint, UGR<19 (when used with microprism diffuser).
- Colour temperatures: 3000°k, 4000°k or Tunable White (2700°k - 5700°k).
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v, DALI 10-100% Dim.
- Wireless control options: Casambi.
- Industry driver options: Fixed output or Dali dimming, for extended service life.
- Mounting bracket supplied as standard.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3Hr Dali Wireless Sentinel.
- Square, or rectangular features are also available upon request*.
- Special projects, which may combine both wall & ceiling, using recessed, surface and suspended versions in a single line of light, are also available upon request*.
- Integrated PIR available upon request*.

Technical

Product	SubSpace 50
Mounting type	Surface
Standard Lengths	870-2970mm
Custom Lengths	140mm increments
Lumen/M	1100-5500 Lm/M
Efficacy	Up to 115 lm/W
Colour Temperature	Warm White (3K)
	Neutral White (4K)
	Tunable White (2.7K >5.7K)
Optics	Opal diffuser
	Microprism (UGR<19)
	Drop diffuser
	Daisy
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed Output, Industry DALI, Industry Fixed Output, DALI 10-100%
Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>75K

* Please contact P&A Technical Department for assistance

P&A

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Datasheet Code: PA-10430-0

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 ISO 9001 Certification

MADE IN BRITAIN

P&A SubSpace 50

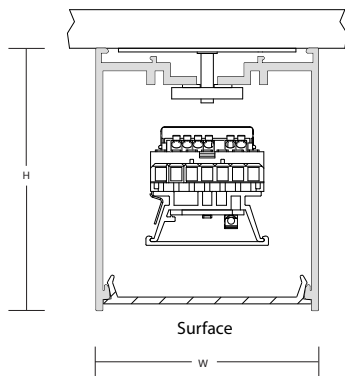
Luminaire Order Builder

SS50-SF

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.	STEP 7.
Select Current	Optics	Length	CCT	Control	Finish	Emergency
15 150mA 1100 Lm/M - 10W/m	O Opal Diffuser	870 870mm	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 1500 Lm/M - 14W/m	M Microprism UGR<19	1150 1150mm	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
25 250mA 1900 Lm/M - 17W/m	DR Drop diffuser	1430 1430mm	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
30 300mA 2200 Lm/M - 20W/m	DA Daisy	1710 1710mm		A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
35 350mA 2600 Lm/M - 24W/m		1990 1990mm		A4 1-10v		
40 400mA 3000 Lm/M - 27W/m		2270 2270mm		A5 Casambi		
		2550 2550mm		A6 Industry Fixed Output		
		2970 2970mm		A7 Industry DALI		
		XXXX Insert custom length (mm)		A8 DALI 10 -100% Dim		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: SS50SF15011504KA1WE3



Dimensions

L	W	H	Finish	Code	Colour Swatch
			RAL		
870	49	85	White	9016M	
1150	49	85	Black	9005	
1430	49	85	Silver	9006	
1710	49	85	Custom*	Custom*	
1990	49	85			
2270	49	85			
2550	49	85			
2970	49	85			
Custom*	49	85			

All dimensions are measured in millimetres (mm).
*Custom lengths upon request.

*Custom Colours upon request.

IP20

IP20
Protection of fingers against
access to hazardous parts, and
protection against objects larger
than 12.5mm



Safety Class
Class 1 Safety: chassis is
connected to earth with a
separate terminal, instead of via
the mains cable



Warranty
5 year Guarantee

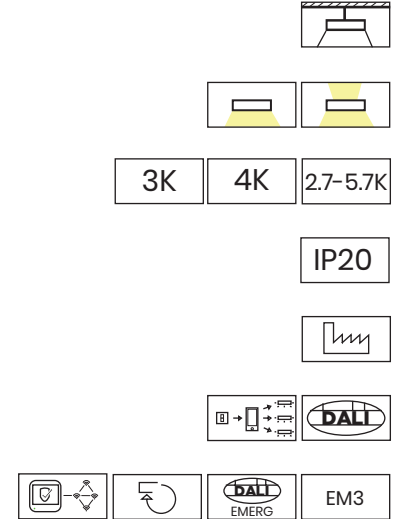
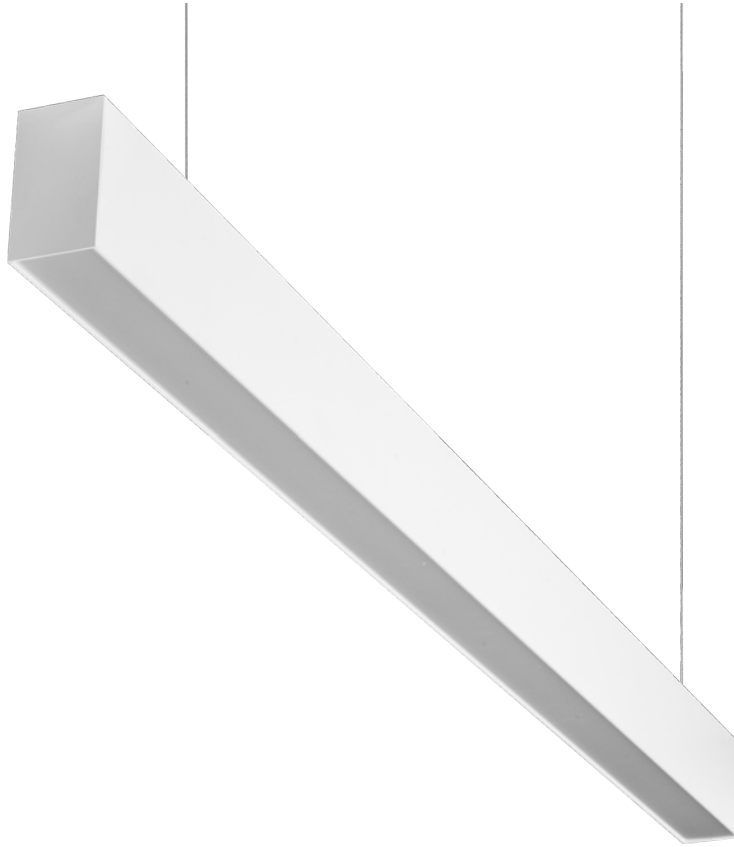


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Datasheet Code: PA-10430-0

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ISO 9001 Certification

MADE IN BRITAIN



SubSpace 50

Suspended

Subspace 50 is a suspended linear architectural luminaire, manufactured from extruded aluminium, with a profile dimension of 49mm x 85mm. Supplied as Direct or Direct/Indirect, in standard or custom lengths, with a variety of optics to suit your needs.

- Efficacy of up to 115 lm/W.
- LG7 Complaint, UGR<19 (when used with microprism diffuser).
- Colour temperatures: 3000°k, 4000°k or Tunable White (2700°k - 5700°k).
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v, DALI 10-100% Dim.
- Wireless control options: Casambi.
- Industry driver options: Fixed output or Dali dimming, for extended service life.
- 3m wire suspension kit and mounting bracket supplied as standard.
- Custom length wire suspension, Clear, Black or White flex are also available.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3Hr Dali Wireless Sentinel.
- Square, or rectangular features are also available upon request*.
- Special projects, which may combine both wall & ceiling, using recessed, surface and suspended versions in a single line of light, are also available upon request*.
- Integrated PIR available upon request*.

Technical

Product	SubSpace 50
Mounting type	Suspended
Standard Lengths	870-2970mm
Custom Lengths	140mm increments
Lumen/M	1100-5500 Lm/M
Efficacy	Up to 115 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K) Tunable White (2.7K >5.7K)
Optics	Opal diffuser Microprism (UGR<19) Drop diffuser Daisy
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output, Industry DALI, Industry Fixed Output, DALI 10-100%
Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>75K

* Please contact P&A Technical Department for assistance

P&A SubSpace 50

Luminaire Order Builder SS50-WS (Direct)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. Length	STEP 5. CCT	STEP 6. Control	STEP 7. Finish	STEP 8. Emergency
15 150mA 1100 Lm/M - 10W/m	D Direct	O Opal Diffuser	870 870mm	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 1500 Lm/M - 14W/m			1150 1150mm				
25 250mA 1900 Lm/M - 17W/m		1430 1430mm	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test	
30 300mA 2200 Lm/M - 20W/m		1710 1710mm			A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
35 350mA 2600 Lm/M - 24W/m		1990 1990mm	A4 1-10v				
40 400mA 3000 Lm/M - 27W/m		2270 2270mm		A5 Casambi			
		2550 2550mm	A6 Industry Fixed Output				
	2970 2970mm	A7 Industry DALI					
	XXXX Insert custom length (mm)		A8 DALI 10-100% Dim				

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature.

Example Code: SS50WSI5DO11504KA1WE3

SS50-WS (Direct/Indirect)

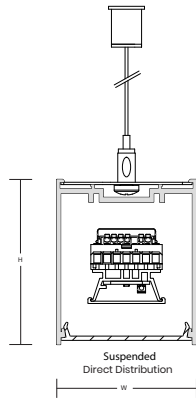
STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. Length	STEP 5. CCT	STEP 6. Control	STEP 7. Finish	STEP 8. Emergency
15 150mA 2100 Lm/M - 18W/m	DI Direct/Indirect	O Opal Diffuser	870 870mm	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 2800 Lm/M - 24W/m			1150 1150mm				
25 250mA 3400 Lm/M - 30W/m		1430 1430mm	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test	
30 300mA 4100 Lm/M - 36W/m		1710 1710mm			A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
35 350mA 4800 Lm/M - 42W/m		1990 1990mm	A4 1-10v				
40 400mA 5500 Lm/M - 49W/m		2270 2270mm		A5 Casambi			
		2550 2550mm	A6 Industry Fixed Output				
	2970 2970mm	A7 Industry DALI					
	XXXX Insert custom length (mm)		A8 DALI 10-100% Dim				

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature.

Example Code: SS50WSI5DIO11504KA1WE3



P&A SubSpace 50



Dimensions

L	W	H
870	49	85
1150	49	85
1430	49	85
1710	49	85
1990	49	85
2270	49	85
2550	49	85
2970	49	85
Custom*	49	85

All dimensions are measured in millimetres (mm).
*Custom lengths upon request.

Finish

RAL	Code	Colour Swatch
White	9016M	
Black	9005	
Silver	9006	
Custom*	Custom*	

*Custom Colours upon request.

Ancillaries

Wire Suspensions	Code
3m Wire suspension kit	SS50-WS-3M
Custom length (1m increments)	SS50-WS-ZM

Clear 0.75mm ² Supply Cable	Code
3 core, Clear, 3m	FL-3C-C-3M
3 core, Clear, Custom Length*	FL-3C-C-ZM
5 core, Clear, 3m	FL-5C-C-3M
5 core, Clear, Custom Length*	FL-5C-C-ZM
6 core, Clear, 3m	FL-6C-C-3M
6 core, Clear, Custom Length*	FL-6C-C-ZM

Black 0.75mm ² Supply Cable	Code
3 core, Black, 3m	FL-3C-B-3M
3 core, Black, Custom Length*	FL-3C-B-ZM
5 core, Black, 3m	FL-5C-B-3M
5 core, Black, Custom Length*	FL-5C-B-ZM
6 core, Black, 3m	FL-6C-B-3M
6 core, Black, Custom Length*	FL-6C-B-ZM

White 0.75mm ² Supply Cable	Code
3 core, White, 3m	FL-3C-W-3M
3 core, White, Custom Length*	FL-3C-W-ZM
5 core, White, 3m	FL-5C-W-3M
5 core, White, Custom Length*	FL-5C-W-ZM
6 core, White, 3m	FL-6C-W-3M
6 core, White, Custom Length*	FL-6C-W-ZM

Decorative Ceiling Rose*** (c/w central hole for single wire suspension fixing).

Silver RAL9006	CR-75-I-S
Black RAL9005	CR-75-I-B
White RAL9016	CR-75-I-W
Custom RAL Colour**	CR-75-I-Z

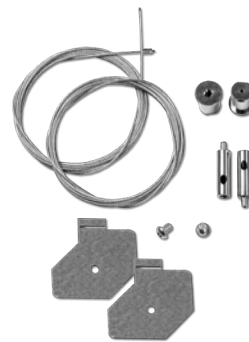
*Please replace Z with required cut meter length.

**Please replace Z with required Custom RAL Colour.

***Ceiling rose does not include termination point (Termination supplied by others).

Ancillaries images

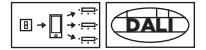
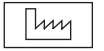
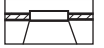
3m Wire suspension kit	CR75 Decorative Ceiling Rose***
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Distribution Types

Direct	Direct/Indirect
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SubSpace 70R

Recessed

Subspace 70R is a recessed linear architectural luminaire, manufactured from extruded aluminium, with a profile dimension of 85mm x 80mm. Supplied as Direct, in standard or custom lengths, with a variety of optics to suit your needs.

- Efficacy of up to 115 lm/W.
- LG7 Complaint, UGR<19 (when used with microprism diffuser).
- Colour temperatures: 3000°k, 4000°k or Tunable White (2700°k - 5700°k).
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v, DALI 10-100% Dim.
- Wireless control options: Casambi.
- Industry driver options: Fixed output or Dali dimming, for extended service life.
- Mounting options: Recessed with Trim or Recessed with Trimless bracket.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3Hr Dali Wireless Sentinel.
- Square, or rectangular features are also available upon request*.
- Special projects, which may combine both wall & ceiling, using recessed, surface and suspended versions in a single line of light, are also available upon request*.
- Integrated PIR available upon request*.

Technical

Product	SubSpace 70R
Mounting type	Recessed
Standard Lengths	870-2960mm
Custom Lengths	140mm increments
Lumen/M	1100-5500 Lm/M
Efficacy	Up to 115 Lm/W
Colour Temperature	Warm White (3K) Neutral White (4K) Tunable White (2.7K >5.7K)
Optics	Opal diffuser Microprism (UGR<19)
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed Output, Industry DALI, Industry Fixed Output, DALI 10-100%
Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>75K

* Please contact P&A Technical Department for assistance

P&A SubSpace 70R

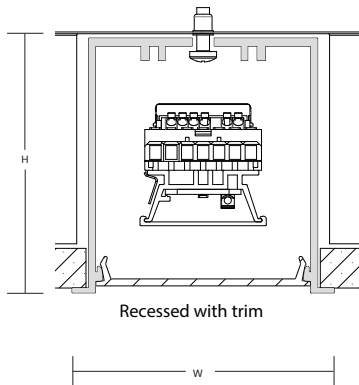
Luminaire Order Builder

SS70R

STEP 1. Select Frame	STEP 2. Current	STEP 3. Optics	STEP 4. Length	STEP 5. CCT	STEP 6. Control	STEP 7. Finish	STEP 8. Emergency
R Recessed with Trim	15 150mA 1100 Lm/M - 10W/m	O Opal Diffuser	870 870mm	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
TL Recessed with Trimless	20 200mA 1500 Lm/M - 14W/m	M Microprism UGR<19	1150 1150mm	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
	25 250mA 1900 Lm/M - 17W/m		1430 1430mm	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
	30 300mA 2200 Lm/M - 20W/m		1710 1710mm		A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
	35 350mA 2600 Lm/M - 24W/m		1990 1990mm		A4 1-10v		
	40 400mA 3000 Lm/M - 27W/m		2270 2270mm		A5 Casambi		
			2550 2550mm		A6 Industry Fixed Output		
			2970 2970mm		A7 Industry DALI		
			XXXX Insert custom length (mm)		A8 DALI 10-100% Dim		

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature.

Example Code: SS70R15O11504KA1WE3



Dimensions

L	W	H
870	85	80
1150	85	80
1430	85	80
1710	85	80
1990	85	80
2270	85	80
2550	85	80
2970	85	80
Custom*	85	80

All dimensions are measured in millimetres (mm).

*Custom lengths upon request.

Dimension above based on Recessed with Trim. For Trimless frame dimensions please see installation instructions.

Please see installation instructions for all cut out sizes.

Finish

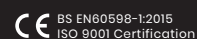
RAL	Code	Colour Swatch
White	9016M	
Black	9005	
Silver	9006	
Custom*	Custom*	

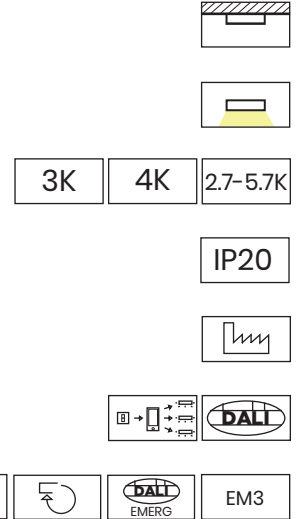
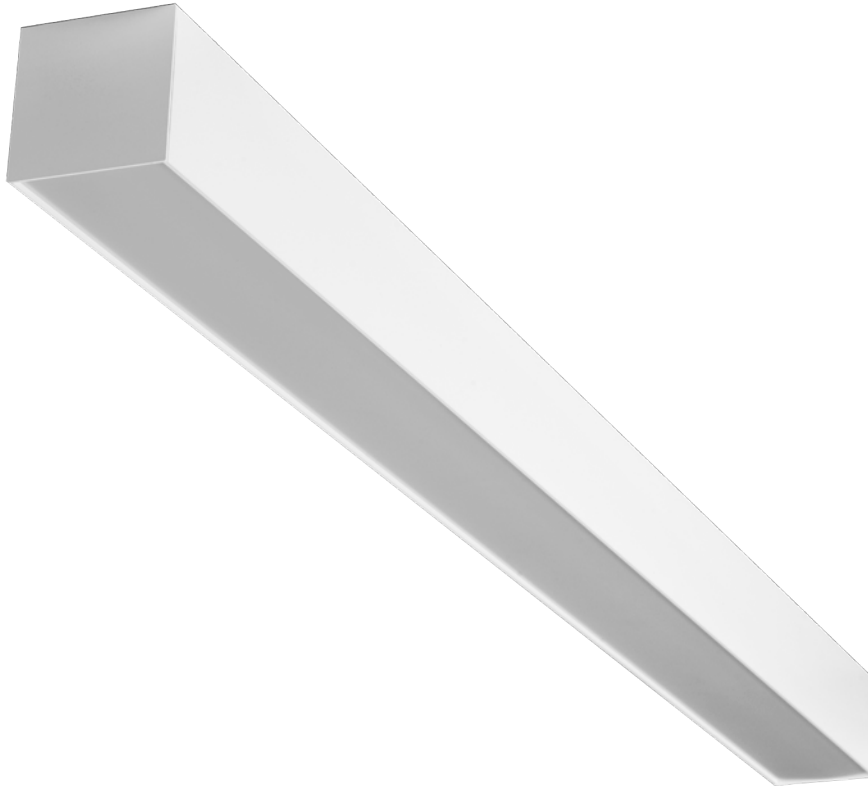
*Custom Colours upon request.



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Datasheet Code: PA-10453-0





SubSpace 70

Surface

Subspace 70 is a surface linear architectural luminaire, manufactured from extruded aluminium, with a profile dimension of 73mm x 85mm. Supplied as Direct, in standard or custom lengths, with a variety of optics to suit your needs.

- Efficacy of up to 115 lm/W.
- LG7 Complaint, UGR<19 (when used with microprism diffuser).
- Colour temperatures: 3000°k, 4000°k or Tunable White (2700°k - 5700°k).
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v, DALI 10-100% Dim.
- Wireless control options: Casambi.
- Industry driver options: Fixed output or Dali dimming, for extended service life.
- Mounting bracket supplied as standard.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3Hr Dali Wireless Sentinel.
- Square, or rectangular features are also available upon request*.
- Special projects, which may combine both wall & ceiling, using recessed, surface and suspended versions in a single line of light, are also available upon request*.
- Integrated PIR available upon request*.

Technical

Product	SubSpace 70
Mounting type	Surface
Standard Lengths	870-2970mm
Custom Lengths	140mm increments
Lumen/M	1100-5500 Lm/M
Efficacy	Up to 115 Lm/W
Colour Temperature	Warm White (3K) Neutral White (4K) Tunable White (2.7K >5.7K)
Optics	Opal diffuser Microprism (UGR<19)
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed Output, Industry DALI, Industry Fixed Output, DALI 10-100%
Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>75K

* Please contact P&A Technical Department for assistance

P&A SubSpace 70

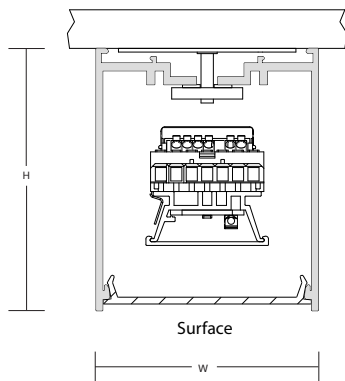
Luminaire Order Builder

SS70-SF

STEP 1. Select Current	STEP 2. Optics	STEP 3. Length	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
15 150mA 1100 Lm/M - 10W/m 20 200mA 1500 Lm/M - 140W/m 25 250mA 1900 Lm/M - 17W/m 30 300mA 2200 Lm/M - 20W/m 35 350mA 2600 Lm/M - 24W/m 40 400mA 3000 Lm/M - 27W/m	O Opal Diffuser M Microprism UGR<19	870 870mm 1150 1150mm 1430 1430mm 1710 1710mm 1990 1990mm 2270 2270mm 2550 2550mm 2970 2970mm XXXX Insert custom length (mm)	3K 3000K 4K 4000K TW 2700K - 5700K Tunable white	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi A6 Industry Fixed Output A7 Industry DALI A8 DALI 10-100% Dim	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: SS70SF15011504KA1WE3



Dimensions

L	W	H
870	73	85
1150	73	85
1430	73	85
1710	73	85
1990	73	85
2270	73	85
2550	73	85
2970	73	85
Custom*	73	85

All dimensions are measured in millimetres (mm).
*Custom lengths upon request.

Finish

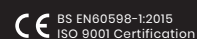
RAL	Code	Colour Swatch
White	9016M	
Black	9005	
Silver	9006	
Custom*	Custom*	

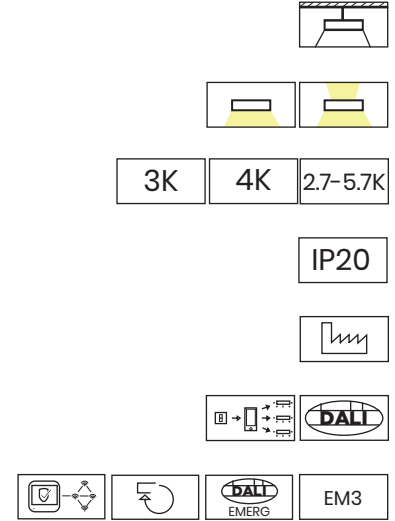
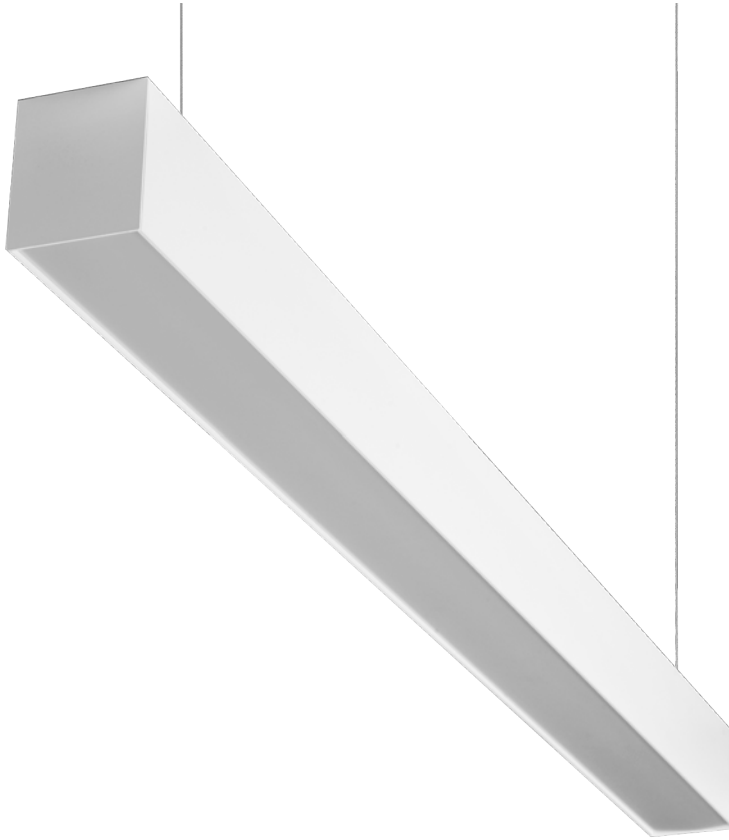
*Custom Colours upon request.



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Datasheet Code: PA-10453-0





SubSpace 70

Suspended

Subspace 70 is a suspended linear architectural luminaire, manufactured from extruded aluminium, with a profile dimension of 73mm x 85mm. Supplied as Direct or Direct/Indirect, in standard or custom lengths, with a variety of optics to suit your needs.

- Efficacy of up to 115 lm/W.
- LG7 Complaint, UGR<19 (when used with microprism diffuser).
- Colour temperatures: 3000°k, 4000°k or Tunable White (2700°k - 5700°k).
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v, DALI 1-100% Dim.
- Wireless control options: Casambi.
- Industry driver options: Fixed output or Dali dimming, for extended service life.
- 3m wire suspension kit and mounting bracket supplied as standard.
- Custom length wire suspension, Clear, Black or White flex are also available.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3Hr Dali Wireless Sentinel.
- Square, or rectangular features are also available upon request*.
- Special projects, which may combine both wall & ceiling, using recessed, surface and suspended versions in a single line of light, are also available upon request*.
- Integrated PIR available upon request*.

Technical

Product	SubSpace 70
Mounting type	Suspended
Standard Lengths	870-2970mm
Custom Lengths	140mm increments
Lumen/M	1100-5500 Lm/M
Efficacy	Up to 115 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K) Tunable White (2.7K >5.7K)
Optics	Opal diffuser Microprism (UGR<19)
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output, Industry DALI, Industry Fixed Output, DALI 10-100%
Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>75K

* Please contact P&A Technical Department for assistance

P&A SubSpace 70

Luminaire Order Builder

SS70-WS (Direct)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. Length	STEP 5. CCT	STEP 6. Control	STEP 7. Finish	STEP 8. Emergency
15 150mA 1100 Lm/M - 10W/m	D Direct	O Opal Diffuser	870 870mm	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 1500 Lm/M - 14W/m		M Microprism UGR<19	1150 1150mm	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
25 250mA 1900 Lm/M - 17W/m			1430 1430mm	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
30 300mA 2200 Lm/M - 20W/m			1710 1710mm		A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
35 350mA 2600 Lm/M - 24W/m			1990 1990mm		A4 1-10v		
40 400mA 3000 Lm/M - 27W/m			2270 2270mm		A5 Casambi		
			2550 2550mm		A6 Industry Fixed Output		
			2970 2970mm		A7 Industry DALI		
			XXXX Insert custom length (mm)		A8 DALI 10-100% Dim		

All electrical and optical data subject to ± 10% tolerances.
Values based on 4000K Colour temperature.

Example Code: SS70WS15D011504KA1WE3

SS70-WS (Direct/Indirect)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. Length	STEP 5. CCT	STEP 6. Control	STEP 7. Finish	STEP 8. Emergency
15 150mA 2100 Lm/M - 18W/m	DI Direct/indirect	O Opal Diffuser	870 870mm	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 2800 Lm/M - 24W/m		M Microprism UGR<19	1150 1150mm	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
25 250mA 3400 Lm/M - 30W/m			1430 1430mm	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
30 300mA 4100 Lm/M - 36W/m			1710 1710mm		A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
35 350mA 4800 Lm/M - 42W/m			1990 1990mm		A4 1-10v		
40 400mA 5500 Lm/M - 49W/m			2270 2270mm		A5 Casambi		
			2550 2550mm		A6 Industry Fixed Output		
			2970 2970mm		A7 Industry DALI		
			XXXX Insert custom length (mm)		A8 DALI 10-100% Dim		

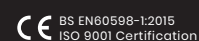
All electrical and optical data subject to ± 10% tolerances.
Values based on 4000K Colour temperature.

Example Code: SS70WS15DIO11504KA1WE3

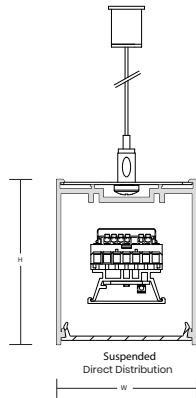


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Datasheet Code: PA-10453-0



P&A SubSpace 70



Dimensions

L	W	H
870	73	85
1150	73	85
1430	73	85
1710	73	85
1990	73	85
2270	73	85
2550	73	85
2970	73	85
Custom*	73	85

All dimensions are measured in millimetres (mm).
*Custom lengths upon request.

Finish

RAL	Code	Colour Swatch
White	9016M	
Black	9005	
Silver	9006	
Custom*	Custom*	

*Custom Colours upon request.

Ancillaries

Wire Suspensions	Code
3m Wire suspension kit	SS70-WS-3M
Custom length (1m increments)	SS70-WS-ZM

Clear 0.75mm ² Supply Cable	
3 core, Clear, 3m	FL-3C-C-3M
3 core, Clear, Custom Length*	FL-3C-C-ZM
5 core, Clear, 3m	FL-5C-C-3M
5 core, Clear, Custom Length*	FL-5C-C-ZM
6 core, Clear, 3m	FL-6C-C-3M
6 core, Clear, Custom Length*	FL-6C-C-ZM

Black 0.75mm ² Supply Cable	
3 core, Black, 3m	FL-3C-B-3M
3 core, Black, Custom Length*	FL-3C-B-ZM
5 core, Black, 3m	FL-5C-B-3M
5 core, Black, Custom Length*	FL-5C-B-ZM
6 core, Black, 3m	FL-6C-B-3M
6 core, Black, Custom Length*	FL-6C-B-ZM

White 0.75mm ² Supply Cable	
3 core, White, 3m	FL-3C-W-3M
3 core, White, Custom Length*	FL-3C-W-ZM
5 core, White, 3m	FL-5C-W-3M
5 core, White, Custom Length*	FL-5C-W-ZM
6 core, White, 3m	FL-6C-W-3M
6 core, White, Custom Length*	FL-6C-W-ZM

Decorative Ceiling Rose*** (c/w central hole for single wire suspension fixing).

Silver RAL9006	CR-75-I-S
Black RAL9005	CR-75-I-B
White RAL9016	CR-75-I-W
Custom RAL Colour**	CR-75-I-Z

*Please replace Z with required cut meter length.

**Please replace Z with required Custom RAL Colour.

***Ceiling rose does not include termination point (Termination supplied by others).

Ancillaries images

3m Wire suspension kit



CR75 Decorative Ceiling Rose***



Distribution Types

Direct



Direct/Indirect



IP20

IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee

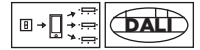
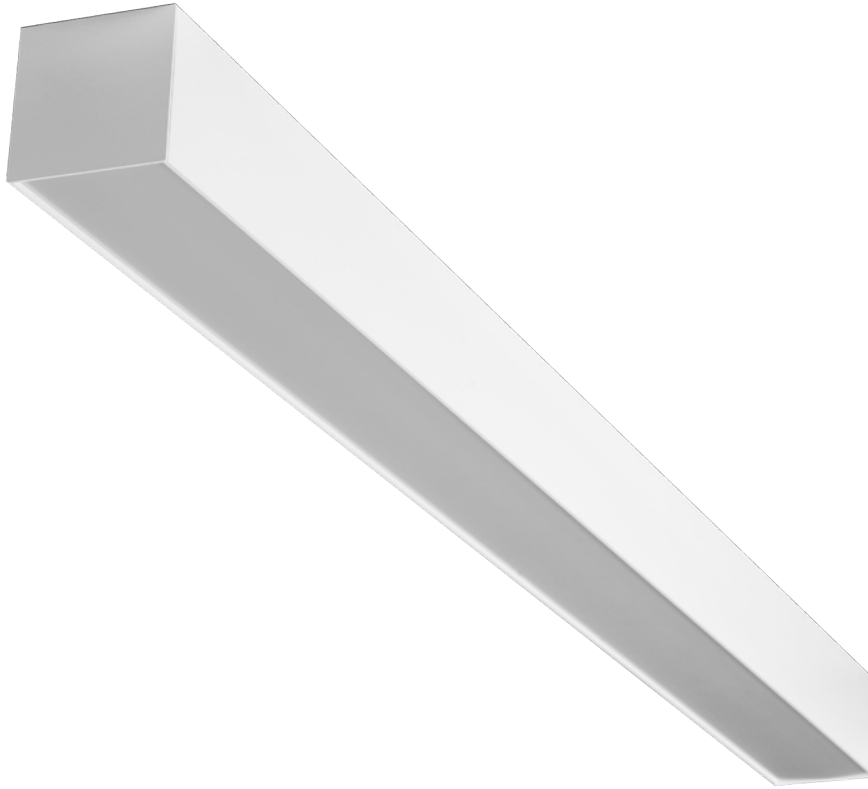


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Datasheet Code: PA-10453-0

CE BS EN60598-1:2015
ISO 9001 Certification

MADE IN BRITAIN



SubSpace 90

Surface

Subspace 90 is a surface linear architectural luminaire, manufactured from extruded aluminium, with a profile dimension of 89mm x 85mm. Supplied as Direct, in standard or custom lengths, with a variety of optics to suit your needs.

- Efficacy of up to 115 lm/W.
- LG7 Complaint, UGR<19 (when used with microprism diffuser).
- Colour temperatures: 3000°k, 4000°k or Tunable White (2700°k - 5700°k).
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v, DALI 10-100% Dim.
- Wireless control options: Casambi.
- Industry driver options: Fixed output or Dali dimming, for extended service life.
- Mounting bracket supplied as standard.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3Hr Dali Wireless Sentinel.
- Square, or rectangular features are also available upon request*.
- Special projects, which may combine both wall & ceiling, using recessed, surface and suspended versions in a single line of light, are also available upon request*.
- Integrated PIR available upon request*.

Technical

Product	SubSpace 90
Mounting type	Surface
Standard Lengths	870-2970mm
Custom Lengths	140mm increments
Lumen/M	1100-5500 Lm/M
Efficacy	Up to 115 Lm/W
Colour Temperature	Warm White (3K)
	Neutral White (4K)
	Tunable White (2.7K >5.7K)
Optics	Opal diffuser
	Microprism (UGR<19)
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed Output, Industry DALI, Industry Fixed Output, DALI 10-100%
Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>75K

* Please contact P&A Technical Department for assistance

P&A SubSpace 90

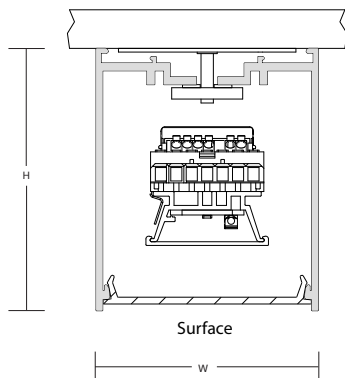
Luminaire Order Builder

SS90-SF

STEP 1. Select Current	STEP 2. Optics	STEP 3. Length	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
15 150mA 1100 Lm/M - 10W/m	O Opal Diffuser	870 870mm	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 1500 Lm/M - 14W/m	M Microprism UGR<19	1150 1150mm	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
25 250mA 1900 Lm/M - 17W/m		1430 1430mm	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
30 300mA 2200 Lm/M - 20W/m		1710 1710mm		A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
35 350mA 2600 Lm/M - 24W/m		1990 1990mm		A4 1-10v		
40 400mA 3000 Lm/M - 27W/m		2270 2270mm		A5 Casambi		
		2550 2550mm		A6 Industry Fixed Output		
		2970 2970mm		A7 Industry DALI		
		XXXX Insert custom length (mm)		A8 DALI 10-100% Dim		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: SS90SF15011504KA1WE3



Dimensions

L	W	H
870	89	85
1150	89	85
1430	89	85
1710	89	85
1990	89	85
2270	89	85
2550	89	85
2970	89	85
Custom*	89	85

All dimensions are measured in millimetres (mm).
*Custom lengths upon request.

Finish

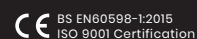
RAL	Code	Colour Swatch
White	9016M	
Black	9005	
Silver	9006	
Custom*	Custom*	

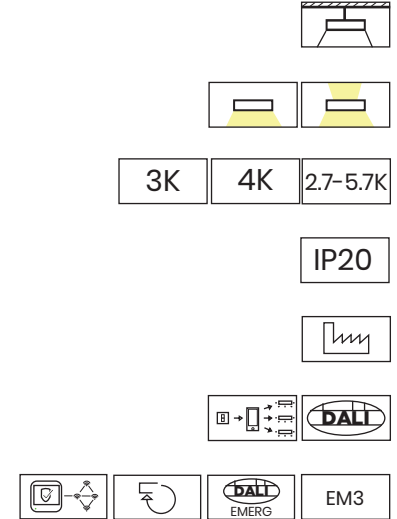
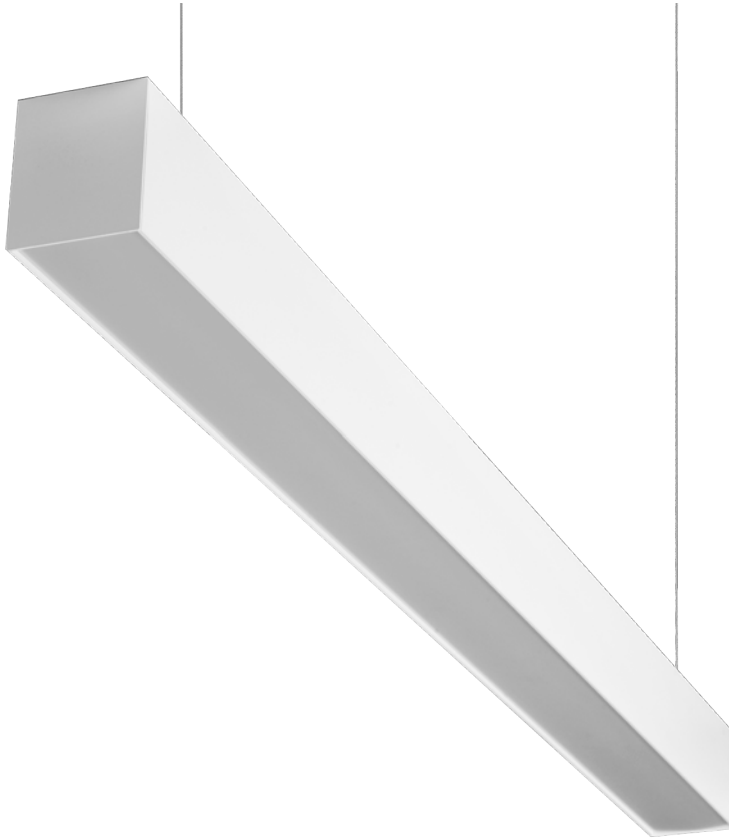
*Custom Colours upon request.



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Datasheet Code: PA-10442-0





SubSpace 90

Suspended

Subspace 90 is a suspended linear architectural luminaire, manufactured from extruded aluminium, with a profile dimension of 89mm x 85mm. Supplied as Direct or Direct/Indirect, in standard or custom lengths, with a variety of optics to suit your needs.

- Efficacy of up to 115 lm/W.
- LG7 Complaint, UGR<19 (when used with microprism diffuser).
- Colour temperatures: 3000°k, 4000°k or Tunable White (2700°k - 5700°k).
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v, DALI 1-100% Dim.
- Wireless control options: Casambi.
- Industry driver options: Fixed output or Dali dimming, for extended service life.
- 3m wire suspension kit and mounting bracket supplied as standard.
- Custom length wire suspension, Clear, Black or White flex are also available.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3Hr Dali Wireless Sentinel.
- Square, or rectangular features are also available upon request*.
- Special projects, which may combine both wall & ceiling, using recessed, surface and suspended versions in a single line of light, are also available upon request*.
- Integrated PIR available upon request*.

Technical

Product	SubSpace 90
Mounting type	Suspended
Standard Lengths	870-2970mm
Custom Lengths	140mm increments
Lumen/M	1100-5500 Lm/M
Efficacy	Up to 115 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K) Tunable White (2.7K >5.7K)
Optics	Opal diffuser Microprism (UGR<19)
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output, Industry DALI, Industry Fixed Output, DALI 10-100%
Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>75K

* Please contact P&A Technical Department for assistance

P&A SubSpace 90

Luminaire Order Builder

SS90-WS (Direct)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. Length	STEP 5. CCT	STEP 6. Control	STEP 7. Finish	STEP 8. Emergency
15 150mA 1100 Lm/M - 10W/m	D Direct	O Opal Diffuser	870 870mm	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 1500 Lm/M - 14W/m		M Microprism UGR<19	1150 1150mm	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
25 250mA 1900 Lm/M - 17W/m			1430 1430mm	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
30 300mA 2200 Lm/M - 20W/m			1710 1710mm		A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
35 350mA 2600 Lm/M - 24W/m			1990 1990mm		A4 1-10v		
40 400mA 3000 Lm/M - 27W/m			2270 2270mm		A5 Casambi		
			2550 2550mm		A6 Industry Fixed Output		
			2970 2970mm		A7 Industry DALI		
			XXXX Insert custom length (mm)		A8 DALI 10-100% Dim		

All electrical and optical data subject to ± 10% tolerances.
Values based on 4000K Colour temperature.

Example Code: SS90WS15D011504KA1WE3

SS90-WS (Direct/Indirect)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. Length	STEP 5. CCT	STEP 6. Control	STEP 7. Finish	STEP 8. Emergency
15 150mA 2100 Lm/M - 18W/m	DI Direct/indirect	O Opal Diffuser	870 870mm	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 2800 Lm/M - 24W/m		M Microprism UGR<19	1150 1150mm	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
25 250mA 3400 Lm/M - 30W/m			1430 1430mm	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
30 300mA 4100 Lm/M - 36W/m			1710 1710mm		A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
35 350mA 4800 Lm/M - 42W/m			1990 1990mm		A4 1-10v		
40 400mA 5500 Lm/M - 49W/m			2270 2270mm		A5 Casambi		
			2550 2550mm		A6 Industry Fixed Output		
			2970 2970mm		A7 Industry DALI		
			XXXX Insert custom length (mm)		A8 DALI 10-100% Dim		

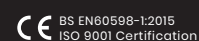
All electrical and optical data subject to ± 10% tolerances.
Values based on 4000K Colour temperature.

Example Code: SS90WS15DIO11504KA1WE3

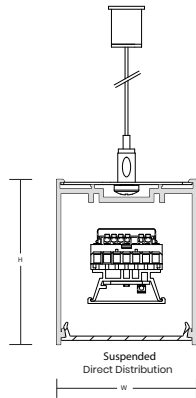


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Datasheet Code: PA-10442-0



P&A SubSpace 90



Dimensions

L	W	H
870	89	85
1150	89	85
1430	89	85
1710	89	85
1990	89	85
2270	89	85
2550	89	85
2970	89	85
Custom*	89	85

All dimensions are measured in millimetres (mm).
*Custom lengths upon request.

Finish

RAL	Code	Colour Swatch
White	9016M	
Black	9005	
Silver	9006	
Custom*	Custom*	

*Custom Colours upon request.

Ancillaries

Wire Suspensions	Code
3m Wire suspension kit	SS90-WS-3M
Custom length (1m increments)	SS90-WS-ZM
Clear 0.75mm², Supply Cable	
3 core, Clear, 3m	FL-3C-C-3M
3 core, Clear, Custom Length*	FL-3C-C-ZM
5 core, Clear, 3m	FL-5C-C-3M
5 core, Clear, Custom Length*	FL-5C-C-ZM
6 core, Clear, 3m	FL-6C-C-3M
6 core, Clear, Custom Length*	FL-6C-C-ZM

Black 0.75mm ² , Supply Cable	Code
3 core, Black, 3m	FL-3C-B-3M
3 core, Black, Custom Length*	FL-3C-B-ZM
5 core, Black, 3m	FL-5C-B-3M
5 core, Black, Custom Length*	FL-5C-B-ZM
6 core, Black, 3m	FL-6C-B-3M
6 core, Black, Custom Length*	FL-6C-B-ZM

White 0.75mm ² , Supply Cable	Code
3 core, White, 3m	FL-3C-W-3M
3 core, White, Custom Length*	FL-3C-W-ZM
5 core, White, 3m	FL-5C-W-3M
5 core, White, Custom Length*	FL-5C-W-ZM
6 core, White, 3m	FL-6C-W-3M
6 core, White, Custom Length*	FL-6C-W-ZM

Decorative Ceiling Rose*** (c/w central hole for single wire suspension fixing).

Silver RAL9006	CR-75-I-S
Black RAL9005	CR-75-I-B
White RAL9016	CR-75-I-W
Custom RAL Colour**	CR-75-I-Z

*Please replace Z with required cut meter length.

**Please replace Z with required Custom RAL Colour.

***Ceiling rose does not include termination point (Termination supplied by others).

Ancillaries images

3m Wire suspension kit



CR75 Decorative Ceiling Rose***



Distribution Types

Direct



Direct/Indirect



IP20

IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee

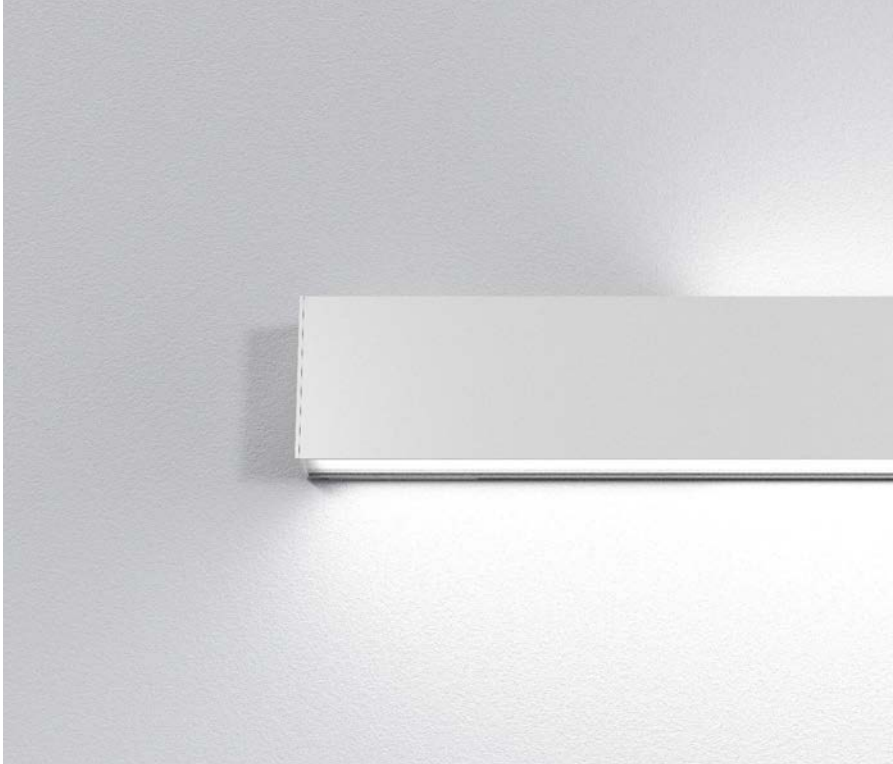


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Datasheet Code: PA-10442-0

CE BS EN60598-1:2015
ISO 9001 Certification

MADE IN BRITAIN



SubSpace WM

Wall Mounted

SubSpace WM, is a wall mounted version of the SS50 or SS70 luminaire range. With its sleek, stylish and modern appearance it creates the perfect statement for the modern workplace. Manufactured from extruded aluminium. Available as direct or Direct/Indirect, in range of outputs finishes to suite.

- Efficacy of up to 115 lm/W.
- LG7 Complaint, UGR<19 (when used with microprism diffuser).
- Colour temperatures: 3000°k, 4000°k or Tunable White (2700°k - 5700°k).
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v, DALI 10-100% Dim.
- Wireless control option: Casambi.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.

Technical

Product	SubSpace WM
Mounting type	Wall Mounted
Profile	SubSpace50 SubSpace70
Standard Lengths	870-1710mm
Lumen/M	1100-5500 Lm/M
Efficacy	Up to 115 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K) Tunable White (2.7K >5.7K)
Optics	Opal diffuser Microprism (UGR<19) Asymmetric
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output, DALI 10-100%
Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>75K

PA SubSpace WM

Luminaire Order Builder

SS50-WM (Direct)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. Length	STEP 5. CCT	STEP 6. Control	STEP 7. Finish	STEP 8. Emergency
15 150mA 1100 Lm/M - 10W/m	D Direct	O Opal Diffuser	870 870mm	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 1500 Lm/M - 14W/m			1150 1150mm	4K 4000K			
25 250mA 1900 Lm/M - 17W/m		A Asymmetric	1430 1430mm	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
30 300mA 2200 Lm/M - 20W/m			1710 1710mm	A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel	
35 350mA 2600 Lm/M - 24W/m			XXXX Insert custom length (mm)				A4 1-10v
40 400mA 3000 Lm/M - 27W/m			A5 Casambi				

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature.

Example Code: SS50WM15D011504KA1WE3

SS50-WM (Direct/Indirect)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. Length	STEP 5. CCT	STEP 6. Control	STEP 7. Finish	STEP 8. Emergency
15 150mA 2100 Lm/M - 18W/m	DI Direct/indirect	O Opal Diffuser	870 870mm	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 2800 Lm/M - 24W/m			1150 1150mm	4K 4000K			
25 250mA 3400 Lm/M - 30W/m		A Asymmetric	1430 1430mm	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
30 300mA 4100 Lm/M - 36W/m			1710 1710mm	A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel	
35 350mA 4800 Lm/M - 42W/m			XXXX Insert custom length (mm)				A4 1-10v
40 400mA 5500 Lm/M - 49W/m			A5 Casambi				
				A8 DALI 10-100% Dim			

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature.

Example Code: SS5015DIO11504KA1WE3



PA SubSpace WM

Luminaire Order Builder

SS70-WM (Direct)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. Length	STEP 5. CCT	STEP 6. Control	STEP 7. Finish	STEP 8. Emergency
15 150mA 1100 Lm/M - 10W/m	D Direct	O Opal Diffuser	870 870mm	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 1500 Lm/M - 14W/m							
25 250mA 1900 Lm/M - 17W/m		M Microprism UGR<19	1150 1150mm	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
30 300mA 2200 Lm/M - 20W/m							
35 350mA 2600 Lm/M - 24W/m		A Asymmetric	1430 1430mm	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
40 400mA 3000 Lm/M - 27W/m							
			1710 1710mm	A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel	
			XXXX Insert custom length (mm)				
				A4 1-10v			
				A5 Casambi			

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature.

Example Code: SS70WM15D011504KA1WE3

SS70-WM (Direct/Indirect)

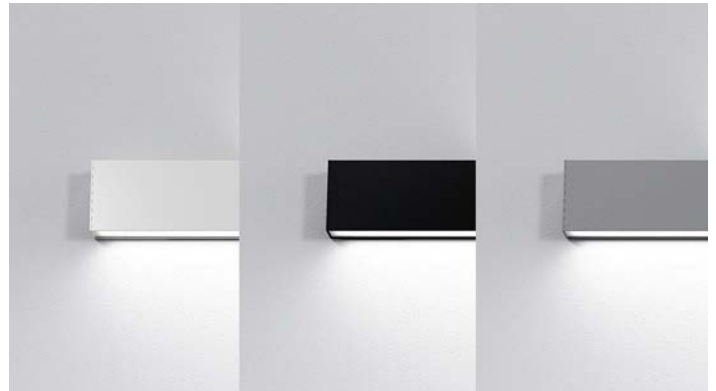
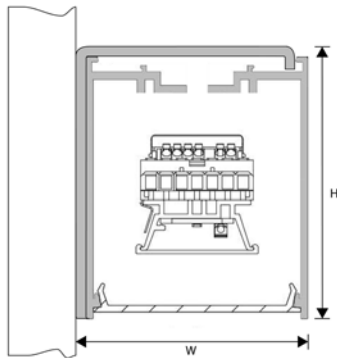
STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. Length	STEP 5. CCT	STEP 6. Control	STEP 7. Finish	STEP 8. Emergency
15 150mA 2100 Lm/M - 18W/m	DI Direct/indirect	O Opal Diffuser	870 870mm	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 2800 Lm/M - 24W/m							
25 250mA 3400 Lm/M - 30W/m		M Microprism UGR<19	1150 1150mm	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
30 300mA 4100 Lm/M - 36W/m							
35 350mA 4800 Lm/M - 42W/m		A Asymmetric	1430 1430mm	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
40 400mA 5500 Lm/M - 49W/m							
			1710 1710mm	A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel	
			XXXX Insert custom length (mm)				
				A4 1-10v			
				A5 Casambi			
				A8 DALI 10-100% Dim			

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature.

Example Code: SS7015DIO11504KA1WE3



P&A SubSpace WM



Dimensions

Profile	L	W	H	Finish	Code	Colour Swatch
SS50	870	51	87	White	9016	
	1150	51	87	Black	9005	
	1430	51	87	Silver	9006	
	1710	51	87	Custom*	Custom*	
SS70	870	75	87			
	1150	75	87			
	1430	75	87			
	1710	75	87			

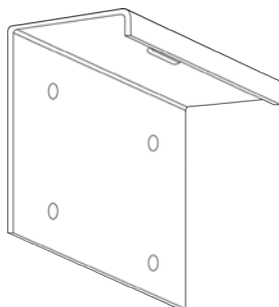
All dimensions are measured in millimetres (mm)

*Custom Colours upon request

Ancillaries

Mounting accessories

Flush Wall mount Bracket (2 x Supplied as standard)



Distribution Types

Direct

Direct/Indirect



IP20

IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class 1 Safety chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee

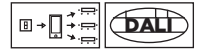
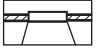


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CE BS EN60598-1:2015
ISO 9001 Certification

MADE IN BRITAIN

Datasheet Code: PA-SubSpace-WM-0

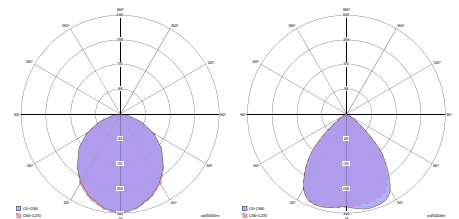


Astreo

Recessed

Astreo recessed 195mm Ø LED downlight suitable for numerous application, in a variety of lumen packages and reflectors options. Designed with unique cast housing, to operate with high lumen outputs & easy-fit installation.

- Efficacy of up to 136.7 lm/W.
- Colour temperatures: 3000°k, 4000°k or Tunable White (2700°k - 5700°k).
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Optic options: Flush, Dome, Diamond facet and Specular
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3Hr Dali Wireless Sentinel.
- Special projects: RGBW available upon request*.



A-Flush

A-Specular

Technical

Product	Astreo
Mounting type	Recessed
Lumens	1010 - 2829 Lm
Efficacy	Up to 136.7 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K) Tunable White (2.7K >5.7K) RGBW*
Dimming	DALI 1-100%, DSI, 1-10V, Casambi
Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Colour rendering	Ra80+
FINIO	Clear, Frost, Green, Blue, Red or Orange
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>75K

* Please contact P&A Technical Department for assistance

Luminaire Order Builder

Astreo (Diamond facet)

STEP 1. Select Current	STEP 2. Optics	STEP 3. FINIO	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
20 200mA 1182 Lm - 8.9W	DF Diamond facet	CL Clear	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
25 250mA 1445 Lm - 10.7W		FR Frost	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
30 300mA 1748 Lm - 13.1W		G Green	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
35 350mA 2016 Lm - 14.8W		B Blue	RBGW Red, Green, Blue, White	A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
40 400mA 2313 Lm - 16.9W		R Red		A4 1-10v		
45 450mA 2587 Lm - 19.1W		O Orange		A5 Casambi		
50 500mA 2805 Lm - 21W						

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: A35DFG4KA1WE3

Astreo (Specular)

STEP 1. Select Current	STEP 2. Optics	STEP 3. FINIO	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
20 200mA 1182 Lm - 8.9W	SP Specular	CL Clear	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
25 250mA 1446 Lm - 10.7W		FR Frost	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
30 300mA 1758 Lm - 13.1W		G Green	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
35 350mA 2017 Lm - 14.8W		B Blue	RBGW Red, Green, Blue, White	A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
40 400mA 2315 Lm - 16.9W		R Red		A4 1-10v		
45 450mA 2592 Lm - 19.1W		O Orange		A5 Casambi		
50 500mA 2829 Lm - 21W						

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: A35SPG4KA1WE3

Luminaire Order Builder

Astreo (Flush Opal diffuser)

STEP 1. Select Current	STEP 2. Optics	STEP 3. FINIO	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
20 200mA 1010 Lm - 8.9W	FL Flush opal diffuser	CL Clear	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
25 250mA 1243 Lm - 10.7W		FR Frost	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
30 300mA 1494 Lm - 13W		G Green	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
35 350mA 1721 Lm - 14.8W		B Blue	RBGW Red, Green, Blue, White	A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
40 400mA 1974 Lm - 16.8W		R Red		A4 1-10v		
45 450mA 2206 Lm - 18.9W		O Orange		A5 Casambi		
50 500mA 2357 Lm - 21W						

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

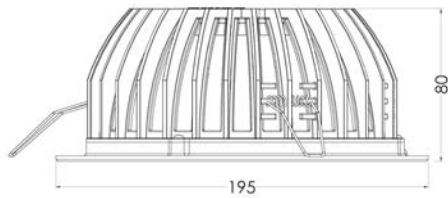
Example Code: A35FLG4KA1WE3

Astreo (Opal dome diffuser)

STEP 1. Select Current	STEP 2. Optics	STEP 3. FINIO	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
20 200mA 1010 Lm - 8.9W	D Opal dome	CL Clear	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
25 250mA 1243 Lm - 10.7W		FR Frost	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
30 300mA 1493 Lm - 13W		G Green	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
35 350mA 1726 Lm - 14.8W		B Blue	RBGW Red, Green, Blue, White	A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
40 400mA 1966 Lm - 16.8W		R Red		A4 1-10v		
45 450mA 2207 Lm - 18.9W		O Orange		A5 Casambi		
50 500mA 2441 Lm - 21W						

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: A35DG4KA1WE3



Dimensions

L	W	H
195Ø	195Ø	80

Finish

RAL	Code	Colour Swatch
White	9016M	
Black	9005	
Silver	9006	
Custom*	Custom*	

All dimensions are measured in millimetres (mm)
Hole cut out size: 175mmØ

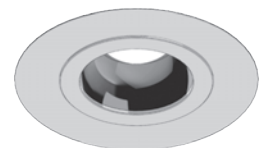
*Custom Colours upon request

Ancillaries images

Blue FINIO Diffuser Attachment Green FINIO Diffuser Attachment Orange FINIO Diffuser Attachment Red FINIO Diffuser Attachment



Specular diamond facet reflector Flush Opal Diffuser attachment Specular Diamond reflector with dome and FINIO attachment Custom pattress plates for retro fitting Astreo to larger hole sizes



IP20
IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable

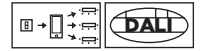


Warranty
5 Year Guarantee



3K 4K 2.7-5.7K

IP20

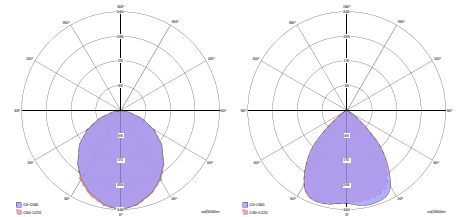


Astreo M

Recessed

Astreo M recessed 152mm Ø LED downlight suitable for any application, various lumen packages, reflectors and attachments available. Complements the Astreo range with a smaller form factor.

- Efficacy of up to 96 lm/W.
- Colour temperatures: 3000°k, 4000°k or Tunable White (2700°k - 5700°k).
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Optic options: Flush, Dome, Diamond facet and Specular
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test or Dali addressable, 3hr Dali Wireless Sentinel.



AM-Flush

AM-Specular

Technical

Product	Astreo M
Mounting type	Recessed
Lumens	803 - 1684 Lm
Efficacy	Up to 96 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K) Tunable White (2.7K >5.7K)
Dimming	DALI 1-100%, DSI, 1-10V, Casambi
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Colour rendering	Ra80+
FINIO	Clear, Frost, Green, Blue, Red or Orange
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>75K

Luminaire Order Builder

AM (Diamond Facet)

STEP 1. Select Current	STEP 2. Optics	STEP 3. FINIO	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
30 300mA 980Lm - 10.8W	DF Diamond facet	CL Clear	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
35 350mA 1113 Lm - 12.1W		FR Frost	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
40 400mA 1277 Lm -13.7W		G Green	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
45 450mA 1428 Lm -15.3W		B Blue		A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
50 500mA 1548 Lm -16.8W		R Red		A4 1-10v		
55 550mA 1684 Lm -18.4W		O Orange		A5 Casambi		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature and fixed output driver.

Example Code: AM50DFG4KAIWE3

AM (Specular)

STEP 1. Select Current	STEP 2. Optics	STEP 3. FINIO	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
30 300mA 976 Lm - 10.7W	SP Specular	CL Clear	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
35 350mA 1104 Lm - 12W		FR Frost	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
40 400mA 1274 Lm -13.7W		G Green	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
45 450mA 1411 Lm - 15.3W		B Blue		A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
50 500mA 1540 Lm - 16.8W		R Red		A4 1-10v		
55 550mA 1679 Lm -18.4W		O Orange		A5 Casambi		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature and fixed output driver.

Example Code: AM50SPG4KAIWE3

Luminaire Order Builder

AM (Flush Diffuser)

STEP 1. Select Current	STEP 2. Optics	STEP 3. FINIO	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
30 300mA 1027 Lm - 11.8W	FL Flush opal diffuser	CL Clear	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
35 350mA 1168 Lm - 13.5W		FR Frost	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
40 400mA 1325 Lm - 15.4W		G Green	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
45 450mA 1464 Lm - 17.4W		B Blue	A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel	
50 500mA 1580 Lm - 19.1W		R Red	A4 1-10v			
55 550mA 1707 Lm - 21W		O Orange	A5 Casambi			

All electrical and optical data subject to $\pm 10\%$ tolerances.
 Values based on 4000K Colour temperature and fixed output driver.

Example Code: AM50FLG4KAIWE3

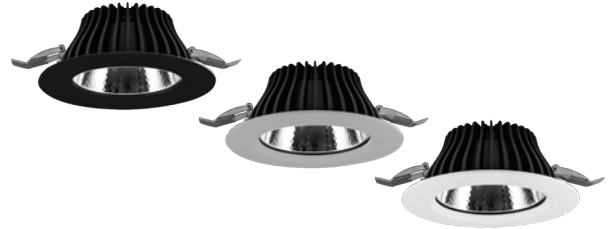
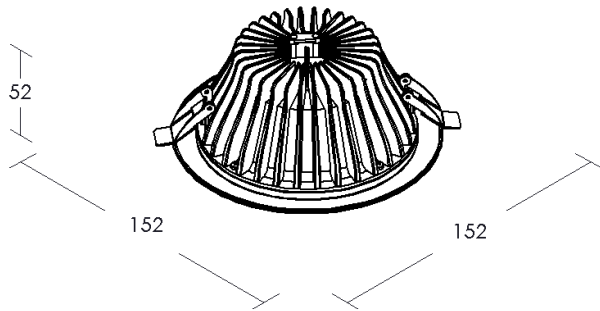
AM (Opal dome diffuser)

STEP 1. Select Current	STEP 2. Optics	STEP 3. FINIO	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
30 300mA 1027 Lm - 11.8W	D Opal dome	CL Clear	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
35 350mA 1168 Lm - 13.5W		FR Frost	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
40 400mA 1325 Lm - 15.4W		G Green	TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
45 450mA 1464 Lm - 17.4W		B Blue	A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel	
50 500mA 1580 Lm - 19.1W		R Red	A4 1-10v			
55 550mA 1707 Lm - 21W		O Orange	A5 Casambi			

All electrical and optical data subject to $\pm 10\%$ tolerances.
 Values based on 4000K Colour temperature and fixed output driver.

Example Code: AM50DG4KAIWE3

P&A Astreo M



Dimensions

W	H
152Ø	52

All dimensions are measured in millimetres (mm)
Hole cut out size: 122mmØ

Finish

RAL	Code	Colour Swatch
White	9016M	
Black	9005	
Silver	9006	
Custom*	Custom*	

*Custom Colours upon request

Ancillaries images

Blue FINIO Diffuser Attachment	Green FINIO Diffuser Attachment	Orange FINIO Diffuser Attachment	Blue FINIO Diffuser Attachment
--------------------------------	---------------------------------	----------------------------------	--------------------------------



Specular diamond facet reflector	Flush Opal Diffuser attachment	Specular Diamond facet with dome and FINIO attachment
----------------------------------	--------------------------------	---



IP20
IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 Year Guarantee

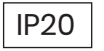
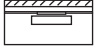


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Datasheet Code: PA-10272-0

CE BS EN60598-1:2015
ISO 9001 Certification





SABRE-TRK

Track

SABRE-TRK is a track mounted cylindrical linear product, with high performance opal diffuser providing uniform illumination, profile dimension of 60mmØ x 1000mm. Compatible with global trac PRO and Global trac PULSE.

- Efficacy of up to 130 lm/W.
- Colour temperatures: 3000°k, 4000°k.
- Colour Finishes: Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim.
- Wireless control option: Casambi.
- Standalone Emergency options available.

Technical

Product	SABRE-TRK
Mounting type	Track
Standard Lengths	1000mm
Lumen	Up to 2789 Lm
Efficacy	Up to 130 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal diffuser
Control	DALI 1-100%, Casambi, Fixed output
Emergency	Standalone available
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

P&A SABRE-TRK

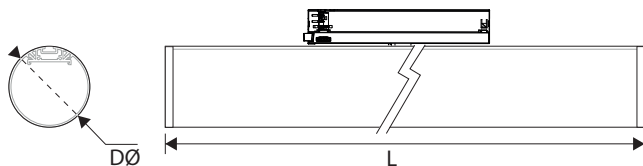
Luminaire Order Builder

SABRE-TRK

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.
Select Current	Optics	CCT	Control	Finish	Emergency
35 350mA 1955 Lm - 16.2W 40 400mA 2234 Lm - 18.5W 45 450mA 2513 Lm - 20.8W 50 500mA 2789 Lm - 22.5W	O Opal Diffuser	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A5 Casambi	S RAL9006 B RAL9005 Z Custom	EM Standalone emergency track spot available upon request

All electrical and optical data subject to ±10% tolerances.
 Values based on 4000K Colour temperature and DALI driver.

Example Code: SBRTK1035O4KA1W



Dimensions

L	DØ
1000	60

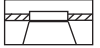
All dimensions are measured in millimetres (mm)

Finish

RAL	Code	Colour Swatch
Black	9005	
Silver	9006	
Custom*	Custom*	

*Custom end cap Colours upon request





3K 4K

IP20

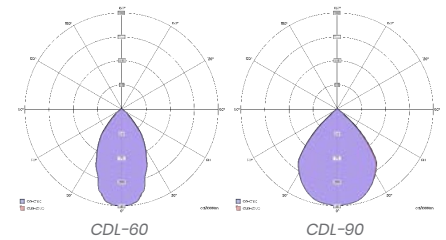
EM3

CDL

Recessed

CDL is a fixed output, cost effective, downlight solution complete with module, driver, reflector and white trim.

- Efficacy of up to 111 lm/W.
- LG7 Complaint, UGR<19 (Available on selected models)
- Colour temperatures: 3000°k, 4000°k.
- Colour Finishes: White trim only.
- Fixed output only: 1000lm, 2000lm & 3000lm, with corresponding diameters of 100mm, 150mm & 200mm.
- Beam options: 60° or 90°.
- Supplied with Integral Tridonic driver.
- Simple push and rotate tool free assembly.
- Emergency options: Standard 3hr.



Technical

Product	CDL
Mounting type	Recessed
Lumens	1000 - 3000 Lm
Efficacy	Up to 111 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Beam	60° Beam (UGR<19) 90° Beam
Control	Fixed output
Emergency	3 hour
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 4
L70/B10	>50K

Luminaire Order Builder

CDL10 (100mm)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
25 255mA 1000 Lm - 10.2W	60 60° Degree beam	3K 3000K	FO Fixed Output	W RAL9016	- Not Available
	90 90° Degree beam	4K 4000K			

Example Code: CDL1025904KFOW

CDL15 (150mm)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
25 255mA 1000 Lm - 10.1W	60 60° Degree beam UGR<19	3K 3000K	FO Fixed Output	W RAL9016	E3 Standard 3 Hour
53 530mA 2000 Lm - 20.2W	90 90° Degree beam	4K 4000K			

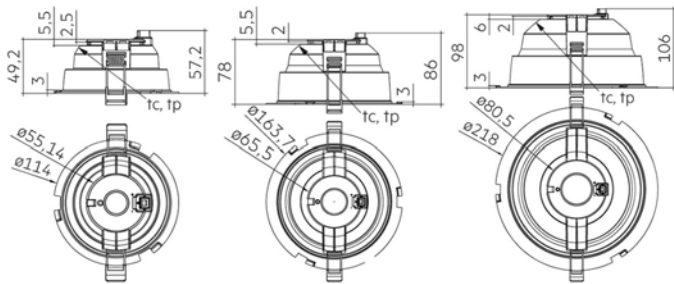
Example Code:CDL1525904KFOWE3

CDL20 (200mm)


STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
53 530mA 2000 Lm - 20.4W	60 60° Degree beam UGR<19	3K 3000K	FO Fixed Output	W RAL9016	E3 Standard 3 Hour
79 790mA 3000 Lm - 32W	90 90° Degree beam	4K 4000K			

All electrical and optical data subject to $\pm 10\%$ tolerances.
 Values based on 4000K Colour temperature.

Example Code: CDL2053604KFOWE3



Dimensions

DØ	H	Finish	Code	Colour Swatch
100-108	96.7*	RAL	White	
145-158	127.3*			
190-210	147.5*			

All dimensions are measured in millimetres (mm)
 * Dimensions Including driver
 Hole cut out size: 100mmØ, 150mmØ, 200mmØ

Ancillaries

60° Degree beam



90° Degree beam



White trim Ring



EM LED Indicator Holder



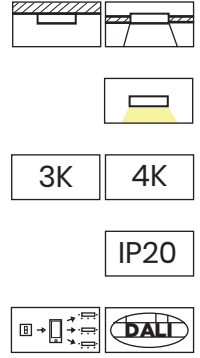
IP20
 Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
 Class 1 Safety chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
 5 year Guarantee



Recessed

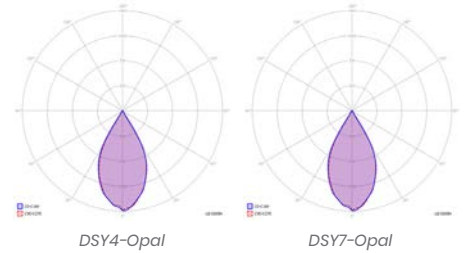
Surface

Daisy

Recessed/Surface

Daisy is a slimline linear LG7 UGR<19, dark light luminaire, available in range of standard sizes. Its unique compact design, with integral driver, provides efficiencies of up to 153lm/W.

- Efficacy of up to 153 lm/W.
- Colour temperatures: 3000°k and 4000°k as standard.
- Colour Finishes: White (9016) or Black (9005) Louvre & bevel finishes as standard.
- Available in 4 or 7 pocket modules.
- Dimming option: DALI 1-100%.
- Recessed, surface mounted or wire suspended options.
- Pre flexed with 1m.
- Special projects, can be combined with SubSpace 50 using recessed, surface and suspended versions.
- CRI 80 as standard, CRI 90 available on request.



Technical

Product	DSY4 DSY7
Mounting type	Recessed Surface Wire Suspended
Lumens	542 – 1436 Lm
Efficacy	Up to 153 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Clear diffuser Opal diffuser
Beam Angle	50° 80°
Dimming	DALI 1-100%, Fixed Output
Emergency	Not Available
Rendering	Ra80+ (Standard)
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

Luminaire Order Builder

DSY4 (4 pocket module- 165/175mm)

STEP 1. Select Mounting	STEP 2. Current	STEP 3. Optics	STEP 4. Beam	STEP 5. CCT	STEP 6. Control	STEP 7. Finish	STEP 8. Emergency
R Recessed	15 150mA 542 Lm - 4.1W	C Clear Diffuser	50 50° Degree beam	3K 3000K	FO Fixed Output	W RAL9016 Matt White Louvre & Trim	- Not Available
SF Surface	20 200mA 723 Lm - 5.5W	O Opal Diffuser	80 80° Degree beam	4K 4000K	A1 DALI 1-100% Dim	B RAL9005 Matt Black Louvre & Trim	
WS Wire Suspended	25 250mA 904 Lm - 6.9W						
	30 300mA 1084 Lm - 8.3W						

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature, CRI80, Clear Diffuser and Black louvre.

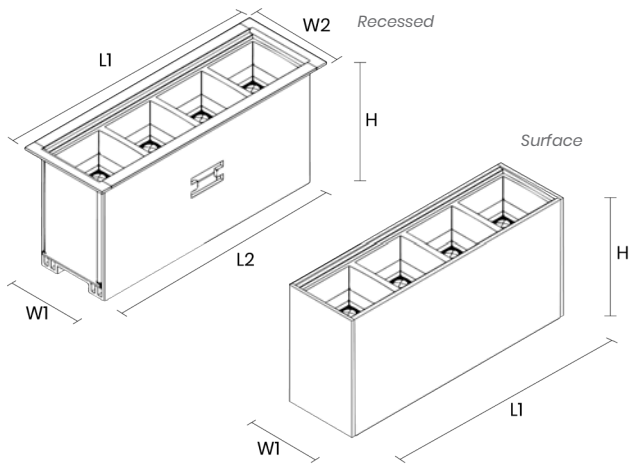
Example Code: DSY4R15C504KA1B

DSY7 (7 pocket module - 285/295mm)

STEP 1. Select Mounting	STEP 2. Current	STEP 3. Optics	STEP 4. Beam	STEP 5. CCT	STEP 6. Control	STEP 7. Finish	STEP 8. Emergency
R Recessed	25 250mA 897 Lm - 6W	C Clear Diffuser	50 50° Degree beam	3K 3000K	FO Fixed Output	W RAL9016 Matt White Louvre & Trim	- Not Available
SF Surface	30 300mA 1077 Lm - 7.1W	O Opal Diffuser	80 80° Degree beam	4K 4000K	A1 DALI 1-100% Dim	B RAL9005 Matt Black Louvre & Trim	
WS Wire Suspended	35 350mA 1256 Lm - 8.2W						
	40 400mA 1436 Lm - 9.4W						

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature, CRI80, Clear Diffuser and White louvre.

Example Code: DSY7SF30C804KA1B



Dimensions

L1	L2	W1	W2	H	Finish	Code	Colour Swatch
165 (DSY4-SF/WS)	N/A	50	N/A	85	White	9016M	
175 (Recessed DSY4)	160	60	50	80	Black	9005	
285 (SF & WS DSY7)	N/A	50	N/A	85			
295 (Recessed DSY7)	285	60	50	80			

All dimensions are measured in millimetres (mm)

Distribution types

Daisy4 mounted within DS4 recessed housing

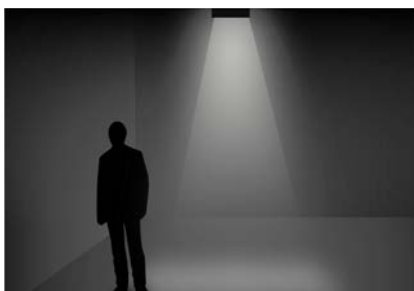


Daisy7 mounted within DS7 recessed housing



Distribution types

Daisy4 mounted within DS4 surface housing



Daisy7 mounted within DS7 surface housing



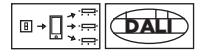
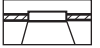
IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class 1 Safety chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee



LED Star

Recessed

LED-Star is an adjustable compact downlight, designed to replace Tungsten Halogen products. Cast aluminium heatsink with die-cast aluminium bezel finished with clear glass cover.

- Efficacy of up to 104 lm/W.
- Colour Rendering: Ra92 as standard.
- Colour temperatures: 3000°k, 4000°k.
- Colour Finishes: White (9016) or Black (9005).
- Available in 24° beam and 36° beam angles to suit your application.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Fixed output remote driver supplied as standard.
- Wireless control options: Casambi, in remote housing.
- Remote emergency options: Standard 3hr, Self-Test, Dali addressable or 3Hr Dali Wireless Sentinel.

Technical

Product	LED Star
Mounting type	Recessed
Lumens	890- 1270 lm
Efficacy	Up to 104 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Beam Angles	24° 36°
Dimming	DALI 1-100%, DSI, 1-10V, Casmbi
Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Rendering	Ra92
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

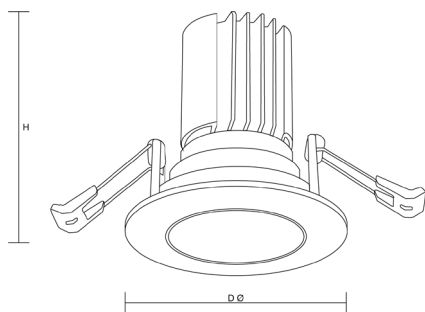
Luminaire Order Builder

LSTAR

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
25 250mA 890 Lm - 8.8W 35 350mA 1270 Lm - 12.2W	24 24° degree beam 36 36° degree beam	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005	E3 Standard 3 Hour remote ED DALI/EMPRO remote ES Self-Test remote EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature.

Example Code: LSTR25244KAIWE3

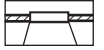


Dimensions

DØ	H	Finish	Code	Colour Swatch
90 (75mm Ceiling Cutout)	80*	White	9016M	
90 (75mm Ceiling Cutout)	90**	Black	9005	

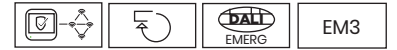
All dimensions are measured in millimetres (mm)
*250mA version
** 350mA version





3K 4K

IP20

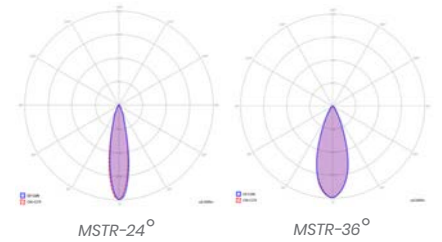


M-STAR

Recessed

M-Star is a recessed decorative downlight, with individually adjustable LED's. Available as single, twin or triple unit, with a choice of lumen packages and beam angles to suit most applications. It can create mood and contrast within an area.

- Efficacy of up to 104 lm/W.
- Colour Rendering: Ra92 as standard.
- Colour temperatures: 3000°k, 4000°k
- Colour Finishes: White (9016), Black (9005). Other RAL colours, available on request.
- Available in 24° beam or 36° beam angles to suit your application.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test or Dali addressable, 3hr Dali Wireless Sentinel.



Technical

Product	M-STAR
Mounting type	Recessed
Lumens	356 & 3810 Lm
Efficacy	Up to 104 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Beam Angles	24° 36°
Dimming	DALI 1-100%, DSI, 1-10V, Casambi
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra92
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

Remote driver only on all variants

Luminaire Order Builder

MSTAR7 (Low Output version)

STEP 1. Select Current**	STEP 2. Optics	STEP 3. Length	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
25 250mA 890 Lm - 8.8W	24 24° degree beam	90 Single Lens body (890 Llm)	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour remote
	36 36° degree beam	150 Twin Lens Body (1780 Llm)	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO remote
		210 Triple Lens Body (2670 Llm)		A2 DSI	Z CUSTOM	ES Self-Test remote
				A3 Switch Dim		EW 3 hour DALI Wireless Sentinel
				A4 1-10v		
				A5 Casambi		

All electrical and optical data subject to ± 10% tolerances.

**Lumen output based on a single lens, For twin and triple lens please multiply this base figure..

Remote driver on all body variants

Example Code: MSTAR72524904KAIWE3

MSTAR12 (High output version)

STEP 1. Select Current**	STEP 2. Optics	STEP 3. Length	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
35 350mA 1270 Lm - 12.2W	24 24° degree beam	90 Single Lens body (1270 Llm)	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour remote
	36 36° degree beam	150 Twin Lens Body (2540 Llm)	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO remote
		210 Triple Lens Body (3810 Llm)		A2 DSI	Z CUSTOM	ES Self-Test remote
				A3 Switch Dim		EW 3 hour DALI Wireless Sentinel
				A4 1-10v		
				A5 Casambi		

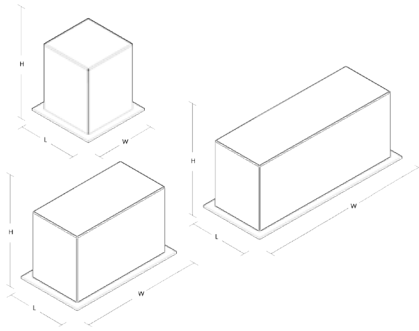
All electrical and optical data subject to ± 10% tolerances.

**Lumen output based on a single lens, For twin and triple lens please multiply this base figure..

Remote driver on all body variants

Example Code: MSTAR121024904KAIWE3

P&A M-STAR



Dimensions

Dimensions			Finish		
L	W	H	RAL	Code	Colour Swatch
90	90	100	White	9016M	
150	90	100	Black	9005	
210	90	100	Custom*	Custom*	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request

M-STAR Variants

Single Lens Body



Twin Lens Body



Triple Lens Body



Distribution types

36° Single Lens Body



36° Twin Lens Body



36° Triple Lens Body



IP20

IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class 1 Safety chassis is connected to earth with a separate terminal, instead of via the mains cable



5 Year
Guarantee

Warranty
5 year Guarantee

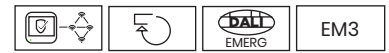
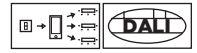
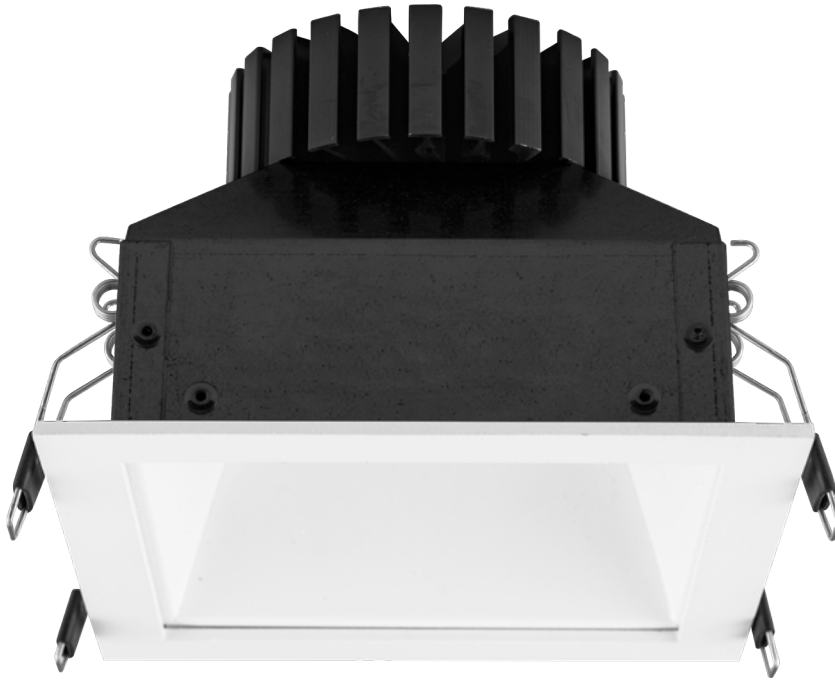


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Datasheet Code: PA-10038-0

CE BS EN60598-1:2015
ISO 9001 Certification





Quadrina

Recessed

Quadrina recessed downlight with deep regressed optic, innovative concave trim and compact aperture.

- Efficacy of up to 119 lm/w.
- Colour temperatures: 3000°k, 4000°k.
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Available with opal diffuser or Specular diamond reflector.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.



QDRA-O

Technical

Product	Quadrina
Mounting type	Recessed
Lumens	1158 - 2315 Lm
Efficacy	Upto 119 Lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal Concave Trim
Dimming	DALI 1-100%, DSI, 1-10V, Casambi
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra90
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

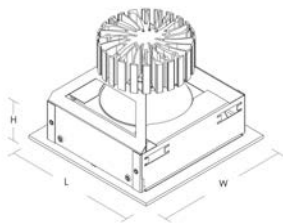
Luminaire Order Builder

QDRA

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.
Select Current	Optics	CCT	Control	Finish	Emergency
25 250mA 1158Lm - 9.7W	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
30 300mA 1389 Lm - 11.6W	C Concave Trim	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
35 350mA 1621 Lm - 13.6W			A2 DSI	S RAL9006	ES Self-Test
40 400mA 1852 Lm - 15.5W			A3 Switch Dim	Z CUSTOM	EW 3 hour DALI Wireless Sentinel
45 450mA 2084 Lm - 17.4W			A4 1-10v		
50 500mA 2315 Lm - 19.4W			A5 Casambi		

All electrical and optical data subject to $\pm 10\%$ tolerances. Values based on 4000K Colour temperature and CRI90. CRI80 available upon request.

Example Code: QDRA3004KA1WE3



Dimensions

L	W	H
150	150	110

Finish

RAL	Code	Colour Swatch
White	9016M	
Black	9005	
Silver	9006	
Custom*	Custom*	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request





SQ

Surface/Suspended

SQ is an architectural square downlight that can be surface mounted or wire suspended. Aesthetic features can be achieved, through a combination of surface and suspended luminaires, mounted within the same area.

- Efficacy of up to 105 lm/W.
- Colour temperatures: 3000°k, 4000°k,
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.

Technical

Product	SQ
Mounting type	Surface or Suspended
Lumens	1317 - 2257 Lm
Efficacy	Up to 105 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal diffuser
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

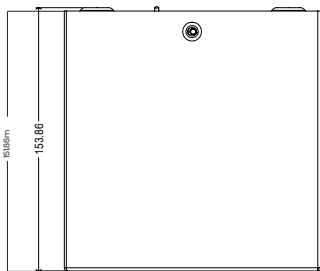
Luminaire Order Builder

SQ

STEP 1. Select Mounting	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
SF Surface mounted	35 350mA 1317 Lm - 14.3W	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
WS Wire Suspended	40 400mA 1505 Lm - 16.4W		4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
	45 450mA 1693 Lm - 18.4W			A2 DSI	S RAL9006	ES Self-Test
	50 500mA 1881 Lm - 20.5W			A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
	55 550mA 2069 Lm - 22.5W			A4 1-10v		
	60 600mA 2257 Lm - 24.5W			A5 Casambi		

All electrical and optical data subject to $\pm 10\%$ tolerances.
 Values based on 4000K Colour temperature & CRI80
 Wire suspended version supplied with 3m wire and single point ceiling fixing as standard. If ceiling rose or flex require, please order separately, as per codes on page 3 of this document.

Example Code: SQSF354KAIBE3



Dimensions

L	W	H	Finish	Code	Colour Swatch
150	150	151.86	White	9016M	
			Black	9005	
			Silver	9006	
			Custom*	Custom*	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request

Ancillaries

Wire Suspensions	Code
3m Wire suspension kit	WS-3M
Custom length (1m increments)	WS-ZM
Clear 0.75mm ² , Supply Cable	
3 core, Clear, 3m	FL-3C-C-3M
3 core, Clear, Custom Length*	FL-3C-C-ZM
5 core, Clear, 3m	FL-5C-C-3M
5 core, Clear, Custom Length*	FL-5C-C-ZM
6 core, Clear, 3m	FL-6C-C-3M
6 core, Clear, Custom Length*	FL-6C-C-ZM
Black 0.75mm ² , Supply Cable	
3 core, Black, 3m	FL-3C-B-3M
3 core, Black, Custom Length*	FL-3C-B-ZM
5 core, Black, 3m	FL-5C-B-3M
5 core, Black, Custom Length*	FL-5C-B-ZM
6 core, Black, 3m	FL-6C-B-3M
6 core, Black, Custom Length*	FL-6C-B-ZM
White 0.75mm ² , Supply Cable	
3 core, White, 3m	FL-3C-W-3M
3 core, White, Custom Length*	FL-3C-W-ZM
5 core, White, 3m	FL-5C-W-3M
5 core, White, Custom Length*	FL-5C-W-ZM
6 core, White, 3m	FL-6C-W-3M
6 core, White, Custom Length*	FL-6C-W-ZM
Decorative Ceiling Rose, with 6 Way Wago terminal (c/w central hole for single wire suspension fixing).	
Silver RAL9006	CR-120-T-S
Black RAL9005	CR-120-T-B
White RAL9016	CR-120-T-W
Custom RAL Colour**	CR-120-T-Z

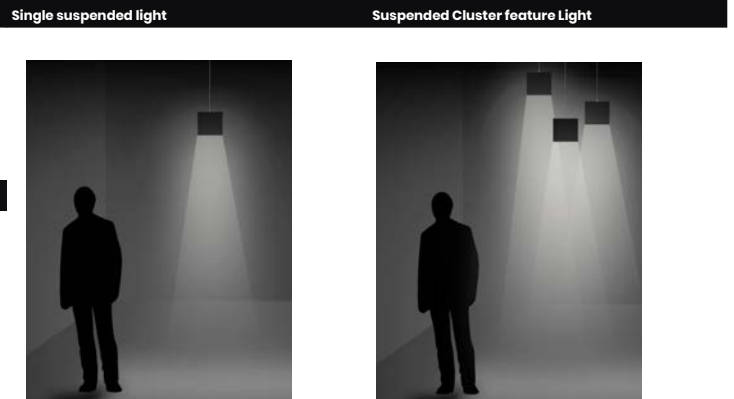
*Please replace Z with required cut meter length.

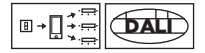
**Please replace Z with required Custom RAL Colour.

Ancillaries images



Installation options





TL-W

Wall Mounted

TL-W is a sleek cylindrical wall mounted downlight. Constructed with extruded aluminium housing with cast aluminium heat sink and aluminium reflector. Available as Direct or Direct/Indirect, in range of outputs finishes to suit.

- Efficacy of up to 113 lm/W.
- Colour temperatures: 3000°k, 4000°k.
- Colour Finishes: White (9016), Black (9005), Other RAL colours, available on request.
- Available in 20°, 30° or 50° beam angles to suit your application.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim.
- Wireless control options: Casambi.
- Snoot options: Black snoot as standard, White available on request.

Technical

Product	TL-W125
Mounting type	Wall Mounted
Diameter	125mm
Lumens	720 - 2323lm
Efficacy	Up to 113 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Beam Angles	20° 30° 50°
Dimming	DALI 1-100%, DSI, Switch Dim, Casambi
Emergency**	Not Available
Rendering	Ra90
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

Luminaire Order Builder

TL-W125 (Direct)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
40 400mA 1858 Lm Down 16.6W 45 450mA 2090 Lm Down 18.7W 50 500mA 2323 Lm Down 20.7W	D Direct	20 20° degree beam 30 30° degree beam 50 50° degree beam	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 Z Custom	- Not Available

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature and CRI90.
CRI80 available upon request.

Example Code: TLW12540D304KAIW

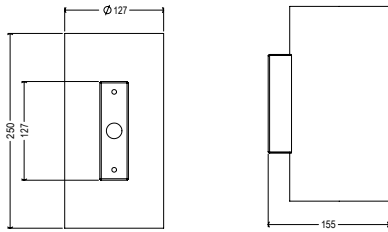
TL-W125 (Direct/Indirect)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
15 150mA 720 Lm Up/ 720 Lm Down 13W 20 200mA 960Lm Up/ 960 Lm Down 17W	DI Direct/Indirect	20 20° degree beam 30 30° degree beam 50 50° degree beam	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 Z Custom	- Not Available

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature and CRI90.
CRI80 available upon request.

Example Code: TLW12520DI304KAIW

P&A TL-W



Dimensions

D Ø	W	H
127	155	250

All dimensions are measured in millimetres (mm)

Finish

RAL	Code	Colour Swatch
White	9016M	
Black	9005	
Custom*	Custom*	

*Custom Colours upon request

RAL9005 Black Snoot

RAL9016 White Snoot



IP20

IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class I Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee

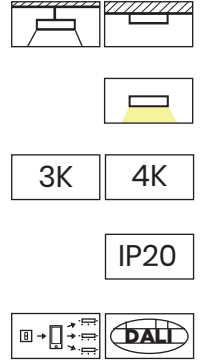


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Datasheet Code: PA-10644-0

CE BS EN60598-1:2015
ISO 9001 Certification

MADE IN BRITAIN



TL50

Surface or Suspended

TL50 is an sleek architectural cylindrical downlight. Constructed with extruded aluminium housing with cast aluminium heat sink and aluminium reflector. Suspended version can be mounted at various heights, to create an architectural feature.

- Efficacy of up to 104 lm/W.
- Colour temperatures: 3000°k or 4000°k as standard.
- Colour Finishes: White (9016), Black (9005), Other RAL colours, available on request.
- Available in 12°, 24°, 35° or 55° beam angles to suit your application.
- Dimming options: DALI 1-100%.
- Wireless control options: Casambi*.
- Emergency options: Not Available

Technical

Product	TL50
Mounting type	Surface Suspended
Diameter	57mm
Lumens	846lm
Efficacy	Up to 104 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Beam Angles	12° 24° 35° 55°
Dimming	DALI 1-100%, Casambi
Emergency	Not Available
Rendering	Ra80/90
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

* Housing length will be increase to accommodate casambi module.

P&A TL50

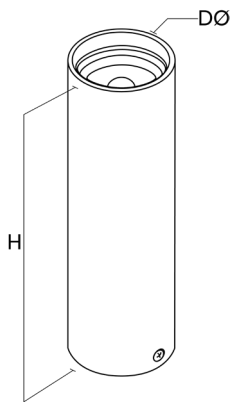
Luminaire Order Builder

TL50

STEP 1. Select Mounting	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
SF Surface FS Flex suspended	20 200mA 846 Lm - 8.1W	12 12° degree beam 24 24° degree beam 35 35° degree beam 55 55° degree beam	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A5 Casambi	W RAL9016M + White Reflector B RAL9005 + Black Reflector Z Custom	- Not Available

All electrical and optical data subject to ±10% tolerances.
 Values based on 4000K Colour temperature, CRI80 and 55° Beam.
 CRI90 available upon request.

Example Code: TL50FS20554KA1W



Dimensions

D Ø	H	Finish	Code	Colour Swatch
57	250	White	9016M	
		Black	9005	
		Custom*	Custom*	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request



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 ISO 9001 Certification



PA TL50

TL50-FS Ancillaries

Clear 0.75mm², Supply Cable

	Code
3 core, Clear, 3m	FL-3C-C-3M
3 core, Clear, Custom Length*	FL-3C-C-ZM
5 core, Clear, 3m	FL-5C-C-3M
5 core, Clear, Custom Length*	FL-5C-C-ZM

Black 0.75mm², Supply Cable

3 core, Black, 3m	FL-3C-B-3M
3 core, Black, Custom Length*	FL-3C-B-ZM
5 core, Black, 3m	FL-5C-B-3M
5 core, Black, Custom Length*	FL-5C-B-ZM

White 0.75mm², Supply Cable

3 core, White, 3m	FL-3C-W-3M
3 core, White, Custom Length*	FL-3C-W-ZM
5 core, White, 3m	FL-5C-W-3M
5 core, White, Custom Length*	FL-5C-W-ZM

Decorative Ceiling Rose

Silver RAL9006	CR-75-1-S
Black RAL9005	CR-75-1-B
White RAL9016	CR-75-1-W
Custom RAL Colour**	CR-75-1-Z

*Please replace Z with required cut meter length.

**Please replace Z with required Custom RAL Colour.

Ancillaries images

Decorative Ceiling Rose



Installation options

Single suspended light



Suspended Cluster feature Light



IP20

IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm

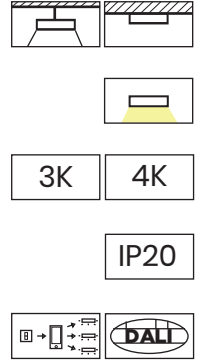


Safety Class
Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee

P&A



TL70

Surface or Suspended

TL70 is an sleek architectural cylindrical downlight. Constructed with extruded aluminium housing with cast aluminium heat sink and aluminium reflector. Suspended version can be mounted at various heights, to create an architectural feature.

- Efficacy of up to 106lm/W.
- Colour temperatures: 3000°k or 4000°k as standard.
- Colour Finishes: White (9016), Black (9005), Other RAL colours, available on request.
- Available in 10°, 14°, 35° or 55° beam angles to suit your application.
- Dimming options: DALI 1-100%.
- Wireless control options: Casambi.
- Emergency options: Not Available

Technical

Product	TL70
Mounting type	Surface Suspended
Diameter	70mm
Lumens	Up to 1291lm
Efficacy	Up to 106lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Beam Angles	10° 14° 35° 55°
Dimming	DALI 1-100%, Casambi
Emergency	Not Available
Rendering	Ra80/90
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

P&A

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Datasheet Code: PA-10791-0

UK CA CE BS EN60598-1:2015
ISO 9001 Certification

MADE IN BRITAIN

P&A TL70

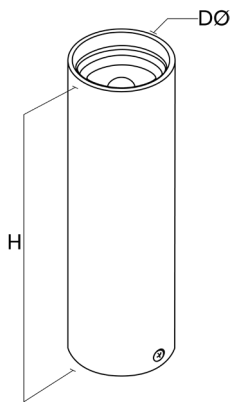
Luminaire Order Builder

TL70

STEP 1. Select Mounting	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
SF Surface	20 200mA 861 Lm - 8.1W	10 10° degree beam	3K 3000K	FO Fixed Output	W RAL9016M + White Reflector	- Not Available
FS Flex suspended	25 250mA 1076 Lm - 10.1W	14 14° degree beam	4K 4000K	A1 DALI 1-100% Dim	B RAL9005 + Black Reflector	
	30 300mA 1291 Lm - 12.1W	35 35° degree beam		A5 Casambi	Z Custom	
		55 55° degree beam				

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature, CRI80 and 55° Beam.
CRI90 available upon request.

Example Code: TL70FS30554KA1W



Dimensions

D Ø	H	Finish	Code	Colour Swatch
76	250	White	9016M	
		Black	9005	
		Custom*	Custom*	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request

P&A TL70

TL70-FS Ancillaries

Clear 0.75mm ² , Supply Cable	Code
3 core, Clear, 3m	FL-3C-C-3M
3 core, Clear, Custom Length*	FL-3C-C-ZM
5 core, Clear, 3m	FL-5C-C-3M
5 core, Clear, Custom Length*	FL-5C-C-ZM

Black 0.75mm ² , Supply Cable	Code
3 core, Black, 3m	FL-3C-B-3M
3 core, Black, Custom Length*	FL-3C-B-ZM
5 core, Black, 3m	FL-5C-B-3M
5 core, Black, Custom Length*	FL-5C-B-ZM

White 0.75mm ² , Supply Cable	Code
3 core, White, 3m	FL-3C-W-3M
3 core, White, Custom Length*	FL-3C-W-ZM
5 core, White, 3m	FL-5C-W-3M
5 core, White, Custom Length*	FL-5C-W-ZM

Decorative Ceiling Rose	Code
Silver RAL9006	CR-120-T-S
Black RAL9005	CR-120-T-B
White RAL9016	CR-120-T-W
Custom RAL Colour**	CR-120-T-Z

*Please replace Z with required cut meter length.

**Please replace Z with required Custom RAL Colour.

Ancillaries images

Decorative Ceiling Rose



Installation options

Single suspended light



Suspended Cluster feature Light



IP20

IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee



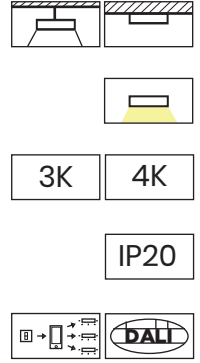
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TL90

Surface or Suspended

TL90 is an architectural slimline cylindrical downlight. Constructed with extruded aluminium housing with cast aluminium heat sink and aluminium reflector. Suspended version can be mounted at various heights, to create an architectural feature.

- Efficacy of up to 112 lm/W.
- Colour temperatures: 3000°k or 4000°k as standard.
- Colour Finishes: White (9016), Black (9005), Other RAL colours, available on request.
- Available in 20°, 30° or 50° beam angles to suit your application.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim.
- Wireless control options: Casambi.
- Remote standalone Emergency options available*.

Technical

Product	TL90
Mounting type	Surface Suspended
Diameter	90mm
Lumens	929 - 2090lm
Efficacy	Up to 112 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Beam Angles	20° 30° 50°
Dimming	DALI 1-100%, DSI, Switch Dim, Casambi
Emergency**	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra90
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

* Remote standalone emergency on available.

P&A TL90

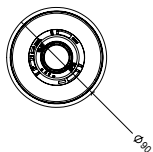
Luminaire Order Builder

TL90

STEP 1. Select Mounting	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
SF Surface	20 200mA 929 Lm - 8.3W	20 20° degree beam	3K 3000K	FO Fixed Output	W RAL9016M	EM Remote standalone emergency available upon request
FS Flex suspended	25 250mA 1161 Lm - 10.4W	30 30° degree beam	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	
	30 300mA 1393 Lm - 12.4W	50 50° degree beam		A2 DSI	Z Custom	
	35 350mA 1626 Lm - 14.5W			A3 Switch Dim		
	40 400mA 1858 Lm - 16.6W			A5 Casambi		
	45 450mA 2090 Lm - 18.7W					

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature and CRI90.
CRI80 available upon request.

Example Code: TL90SF30304KA1W



Dimensions

D Ø	H	Finish	Code	Colour Swatch
90	220	White	9016M	
		Black	9005	
		Custom*	Custom*	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request



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Datasheet Code: PA-10572-0



PA TL90

TL90-FS Ancillaries

Clear 0.75mm ² , Supply Cable	Code
3 core, Clear, 3m	FL-3C-C-3M
3 core, Clear, Custom Length*	FL-3C-C-ZM
5 core, Clear, 3m	FL-5C-C-3M
5 core, Clear, Custom Length*	FL-5C-C-ZM

Black 0.75mm ² , Supply Cable	Code
3 core, Black, 3m	FL-3C-B-3M
3 core, Black, Custom Length*	FL-3C-B-ZM
5 core, Black, 3m	FL-5C-B-3M
5 core, Black, Custom Length*	FL-5C-B-ZM

White 0.75mm ² , Supply Cable	Code
3 core, White, 3m	FL-3C-W-3M
3 core, White, Custom Length*	FL-3C-W-ZM
5 core, White, 3m	FL-5C-W-3M
5 core, White, Custom Length*	FL-5C-W-ZM

Decorative Ceiling Rose	Code
Silver RAL9006	CR-75-1-S
Black RAL9005	CR-75-1-B
White RAL9016	CR-75-1-W
Custom RAL Colour**	CR-75-1-Z

*Please replace Z with required cut meter length.

**Please replace Z with required Custom RAL Colour.

Ancillaries images

Decorative Ceiling Rose



Installation options

Single suspended light



Suspended Cluster feature Light



IP20

IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee



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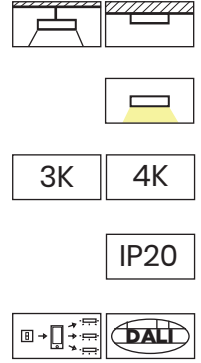
Datasheet Code: PA-10572-0



BS EN60598-1:2015
ISO 9001 Certification



P&A



TL125

Surface or Suspended

TL125 is an architectural slimline cylindrical downlight. Constructed with extruded aluminium housing with cast aluminium heat sink and aluminium reflector. Suspended version can be mounted at various heights, to create an architectural feature.

- Efficacy of up to 112 lm/W.
- Colour temperatures: 3000°k or 4000°k as standard.
- Colour Finishes: White (9016), Black (9005), Other RAL colours, available on request.
- Available in 20°, 30° or 50° beam angles to suit your application.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim.
- Wireless control options: Casambi.
- TL125/200 Snoot options: Black snoot as standard, White available on request.
- Remote standalone Emergency options available*.

Technical

Product	TL125
Mounting type	Surface Suspended
Diameter	125mm
Lumens	1858 - 2323lm
Efficacy	Up to 112 Lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Beam Angles	20° 30° 50°
Dimming	DALI 1-100%, DSI, Switch Dim, Casambi
Emergency**	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra90
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

* Remote standalone emergency on available.

P&A

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Datasheet Code: PA-10179-10

UK CA CE BS EN60598-1:2015
ISO 9001 Certification

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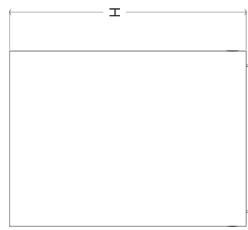
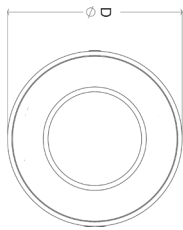
P&A TL125

TL125

STEP 1. Select Mounting	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
SF Surface	40 400mA 1858 Lm - 16.6W	20 20° degree beam	3K 3000K	FO Fixed Output	W RAL9016M	EM Remote standalone emergency available upon request
FS Flex suspended	45 450mA 2090 Lm - 18.7W	30 30° degree beam	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	
	50 500mA 2323 Lm - 20.7W	50 50° degree beam		A2 DSI	Z Custom	
				A3 Switch Dim		
				A5 Casambi		

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature and CRI90.
CRI80 available upon request.

Example Code: TL125SF50204KA1WE3



Dimensions

D Ø	H	Finish	Code	Colour Swatch
125	172	White	9016M	
		Black	9005	
		Custom*	Custom*	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request

P&A TL125

TL125-FS Ancillaries

Flex Suspensions:	Code
Clear 0.75mm², Supply Cable	
3 core, Clear, 3m	FL-3C-C-3M
3 core, Clear, Custom Length*	FL-3C-C-ZM
5 core, Clear, 3m	FL-5C-C-3M
5 core, Clear, Custom Length*	FL-5C-C-ZM
Black 0.75mm², Supply Cable	
3 core, Black, 3m	FL-3C-B-3M
3 core, Black, Custom Length*	FL-3C-B-ZM
5 core, Black, 3m	FL-5C-B-3M
5 core, Black, Custom Length*	FL-5C-B-ZM
White 0.75mm², Supply Cable	
3 core, White, 3m	FL-3C-W-3M
3 core, White, Custom Length*	FL-3C-W-ZM
5 core, White, 3m	FL-5C-W-3M
5 core, White, Custom Length*	FL-5C-W-ZM
Decorative Ceiling Rose	
Silver RAL9006	CR-75-1-S
Black RAL9005	CR-75-1-B
White RAL9016	CR-75-1-W
Custom RAL Colour**	CR-75-1-Z
*Please replace Z with required cut meter length.	
**Please replace Z with required Custom RAL Colour.	
TL Snoot	
RAL9005 Black Snoot	Supplied as standard
RAL9016 White Snoot	Available upon request

Ancillaries images

Decorative Ceiling Rose



RAL9005 Black Snoot

RAL9016 White Snoot



Installation options

Single suspended light



Suspended Cluster feature Light



IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm

Safety Class
Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable

5 Year Guarantee
Warranty 5 year Guarantee

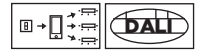
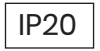


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Datasheet Code: PA-10179-10

UK CA CE BS EN60598-1:2015 ISO 9001 Certification

MADE IN BRITAIN



TL150

Surface or Suspended

TL150 is an architectural slimline cylindrical downlight. Constructed with extruded aluminium housing with cast aluminium heat sink and aluminium reflector. Suspended version can be mounted at various heights, to create an architectural feature.

- Efficacy of up to 112 lm/W.
- Colour temperatures: 3000°k or 4000°k as standard.
- Colour Finishes: White (9016), Black (9005), Other RAL colours, available on request.
- Available in 20°, 30° or 50° beam angles to suit your application.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim.
- Wireless control options: Casambi.
- Integrated Airflow slots into snoot as standard.
- Snoot Colour Finishes: White (9016), Black (9005), Other RAL colours, available on request.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.
- Lithium Iron batteries as standard.

Technical

Product	TL150
Mounting type	Surface Suspended
Diameter	150mm
Lumens	1858 - 2323lm
Efficacy	Up to 112 Lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Beam Angles	20° 30° 50°
Dimming	DALI 1-100%, DSI, Switch Dim Casambi
Emergency*	3 hour, DALI, Self-Test
Rendering	Ra90
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

P&A TL150

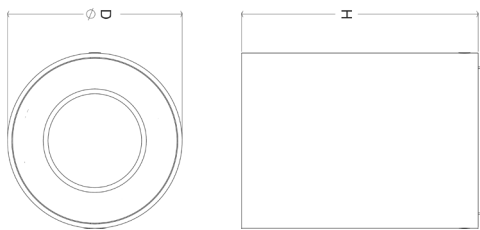
Luminaire Order Builder

TL150

STEP 1. Select Mounting	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
SF Surface	40 400mA 1858 Lm - 16.6W	20 20° degree beam	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
FS Flex suspended	45 450mA 2090 Lm - 18.7W	30 30° degree beam	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
WS Wire suspended	50 500mA 2323 Lm - 20.7W	50 50° degree beam		A2 DSI	Z Custom	ES Self-Test
				A3 Switch Dim		
				A5 Casambi		

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature and CRI90.
CRI80 available upon request.

Example Code: TL150SF40304KAIWE3



Dimensions

D Ø	H	RAL	Code	Colour Swatch
152	175	White	9016M	
		Black	9005	
		Custom*	Custom*	

All dimensions are measured in millimetres (mm)

Finish

*Custom Colours upon request

PA TL150

TL150-WS Ancillaries

Wire Suspensions	Code
3m Wire suspension kit	WS-3M
Custom length (1m increments)	WS-ZM

Clear 0.75mm² Supply Cable

3 core, Clear, 3m	FL-3C-C-3M
3 core, Clear, Custom Length*	FL-3C-C-ZM
5 core, Clear, 3m	FL-5C-C-3M
5 core, Clear, Custom Length*	FL-5C-C-ZM
6 core, Clear, 3m	FL-6C-C-3M
6 core, Clear, Custom Length*	FL-6C-C-ZM

Black 0.75mm² Supply Cable

3 core, Black, 3m	FL-3C-B-3M
3 core, Black, Custom Length*	FL-3C-B-ZM
5 core, Black, 3m	FL-5C-B-3M
5 core, Black, Custom Length*	FL-5C-B-ZM
6 core, Black, 3m	FL-6C-B-3M
6 core, Black, Custom Length*	FL-6C-B-ZM

White 0.75mm² Supply Cable

3 core, White, 3m	FL-3C-W-3M
3 core, White, Custom Length*	FL-3C-W-ZM
5 core, White, 3m	FL-5C-W-3M
5 core, White, Custom Length*	FL-5C-W-ZM
6 core, White, 3m	FL-6C-W-3M
6 core, White, Custom Length*	FL-6C-W-ZM

Decorative Ceiling Rose

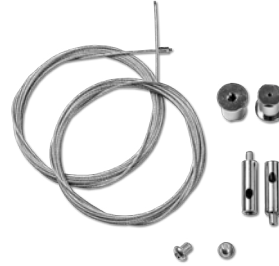
Silver RAL9006	CR-120-T-S
Black RAL9005	CR-120-T-B
White RAL9016	CR-120-T-W
Custom RAL Colour**	CR-120-T-Z

*Please replace Z with required cut meter length.

**Please replace Z with required Custom RAL Colour.

Ancillaries images

3m Wire suspension kit



Decorative Ceiling Rose



Installation options

Single suspended light



Suspended Cluster feature Light



IP20

IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class I Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee



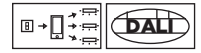
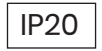
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Datasheet Code: PA-10698-0



BS EN60598-1:2015
ISO 9001 Certification





TL200

Surface or Suspended

TL200 is an architectural slimline cylindrical downlight. Constructed with extruded aluminium housing with cast aluminium heat sink and aluminium reflector. Suspended version can be mounted at various heights, to create an architectural feature.

- Efficacy of up to 133 lm/W.
- Colour temperatures: 3000°k or 4000°k as standard.
- Colour Finishes: White (9016), Black (9005), Other RAL colours, available on request.
- Available in 10°, 30° or 45° beam angles to suit your application.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim.
- Wireless control options: Casambi.
- Snoot options: Black snoot as standard, White available on request
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.

Technical

Product	TL200
Mounting type	Surface Suspended
Diameter	200mm
Lumens	2111 - 2814lm
Efficacy	Up to 133 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Beam Angles	10° 30° 45°
Dimming	DALI 1-100%, DSI, Switch Dim, Casambi
Emergency*	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra90
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

P&A TL200

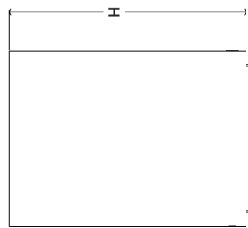
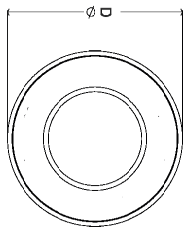
Luminaire Order Builder

TL200

STEP 1. Select Mounting	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
SF Surface	45 450mA 2111 Lm - 16.5W	10 10° degree beam	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
FS Flex suspended	50 500mA 2345 Lm - 18.3W	30 30° degree beam	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
	55 550mA 2672 Lm - 20W	45 45° degree beam		A2 DSI	Z CUSTOM	ES Self-Test
	60 600mA 2814 Lm - 22W			A3 Switch Dim		EW 3 hour DALI Wireless Sentinel
				A5 Casambi		

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature and CRI90.
CRI80 available upon request.

Example Code: TL200SF50104KAIWED



Dimensions

D Ø	H	Finish	Code	Colour Swatch
200	220	White	9016M	
		Black	9005	
		Custom*	Custom*	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request



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P&A TL200

TL200-FS Ancillaries

Clear 0.75mm² Supply Cable

	Code
3 core, Clear, 3m	FL-3C-C-3M
3 core, Clear, Custom Length*	FL-3C-C-ZM
5 core, Clear, 3m	FL-5C-C-3M
5 core, Clear, Custom Length*	FL-5C-C-ZM
6 core, Clear, 3m	FL-6C-C-3M
6 core, Clear, Custom Length*	FL-6C-C-ZM

Black 0.75mm² Supply Cable

3 core, Black, 3m	FL-3C-B-3M
3 core, Black, Custom Length*	FL-3C-B-ZM
5 core, Black, 3m	FL-5C-B-3M
5 core, Black, Custom Length*	FL-5C-B-ZM
6 core, Black, 3m	FL-6C-B-3M
6 core, Black, Custom Length*	FL-6C-B-ZM

White 0.75mm² Supply Cable

3 core, White, 3m	FL-3C-W-3M
3 core, White, Custom Length*	FL-3C-W-ZM
5 core, White, 3m	FL-5C-W-3M
5 core, White, Custom Length*	FL-5C-W-ZM
6 core, White, 3m	FL-6C-W-3M
6 core, White, Custom Length*	FL-6C-W-ZM

Decorative Ceiling Rose

Silver RAL9006	CR-75-1-S
Black RAL9005	CR-75-1-B
White RAL9016	CR-75-1-W
Custom RAL Colour**	CR-75-1-Z

*Please replace Z with required cut meter length.

**Please replace Z with required Custom RAL Colour.

TL Snoot

RAL9005 Black Snoot	Supplied as standard
RAL9016 White Snoot	Available upon request

Ancillaries images

Decorative Ceiling Rose



RAL9005 Black Snoot

RAL9016 White Snoot



Installation options

Single suspended light



Suspended Cluster feature Light



IP20

IP20
Protection of fingers against
access to hazardous parts, and
protection against objects larger
than 12.5mm



Safety Class
Class 1 Safety: chassis is con-
nected to earth with a separate
terminal, instead of via the
main cable



Warranty
5 year Guarantee



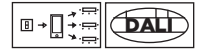
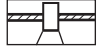
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Datasheet Code: PA-10565-0



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TL-R

Recessed or Semi Recessed

TL-R is a architectural slimline cylindrical downlight that can be semi-recessed. Extruded aluminium housing, with cast aluminium heat sink and internal aluminium reflector.

- Efficacy of up to 133 lm/W.
- Colour temperatures: 3000°k or 4000°k as standard.
- Colour Finishes: White (9016), Black (9005), Other RAL colours, available on request.
- Available in 10°, 20°, 30°, 45° or 50° beam angles to suit your application***.
- Dimming options: DALI 1-100% Dim, DSI, 1-10v.
- Wireless control options: Casambi.
- Standalone Emergency options available.
- Supplied with remote driver.
- Trimless frame is available upon request**

* Standalone emergency on available for TLR90 & TLR125.

** Fully intergrated emergency on available in TLR200 only.

*** 10° and 45° Only available in the TLR200

Technical

Product	TLR90
	TLR125
	TLR200
Mounting type	Recessed
	Semi Recessed
Diameter	90mm
	125mm
	200mm
Lumens	945 - 2814lm
Efficacy	Up to 133 lm/W
Colour Temperature	Warm White (3K)
	Neutral White (4K)
Beam Angles	10°
	20°
	30°
	45°
	50°
Dimming	DALI 1-100%, DSI, Casambi
Emergency*	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra90
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

Luminaire Order Builder

TLR90

STEP 1. Select Mounting	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
R Recessed	20 200mA 945 Lm - 8.3W	20 20° degree beam	3K 3000K	FO Fixed Output	W RAL9016M	EM Remote standalone emergency available upon request
SR Semi Recessed	25 250mA 1181 Lm - 10.4W	30 30° degree beam	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	
	30 300mA 1417 Lm - 12.4W	50 50° degree beam		A2 DSI	Z CUSTOM	
	35 350mA 1654 Lm - 14.5W			A3 Switch Dim		
	40 400mA 1890 Lm - 16.6W			A5 Casambi		
	45 450mA 2126 Lm - 18.7W					

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature and CRI90.
CRI80 available upon request.

Example Code: TLR90R30204KA1W

TLR125

STEP 1. Select Mounting	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
R Recessed	40 400mA 1890 Lm - 16.6W	20 20° degree beam	3K 3000K	FO Fixed Output	W RAL9016M	EM Remote standalone emergency available upon request
SR Semi Recessed	45 450mA 2126 Lm - 18.7W	30 30° degree beam	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	
	50 500mA 2362 Lm - 20.7W	50 50° degree beam		A2 DSI	Z CUSTOM	
				A3 Switch Dim		
				A5 Casambi		

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature and CRI90.
CRI80 available upon request.

Example Code: TLR125SR50204KA1WE3

P&A TL-R

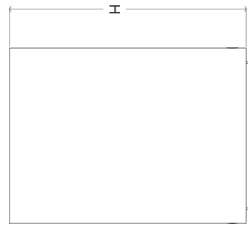
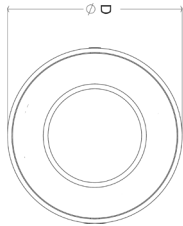
Luminaire Order Builder

TLR200

STEP 1. Select Mounting	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
R Recessed	45 450mA 2111 Lm - 16.5W	10 10° degree beam	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
SR Semi Recessed	50 500mA 2345 Lm - 18.3W	30 30° degree beam	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
	55 550mA 2672 Lm - 20W	45 45° degree beam		A2 DSI	Z CUSTOM	ES Self-Test
	60 600mA 2814 Lm - 22W			A3 Switch Dim		EW 3 hour DALI Wireless Sentinel
				A5 Casambi		

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature and CRI90.
CRI80 available upon request.

Example Code: TLR200R50104KAIWE3



Dimensions

D Ø	L	Finish	RAL	Code	Colour Swatch
90	150	White	9016M	9016M	
125	150	Black	9005	9005	
200	150	Custom*	Custom*	Custom*	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request

Distribution types

PAR-TL90/125/200 with 10° Optics	PAR-TL90/125/200 with 30° Optics	PAR-TL90/125/200 with 45° Optics
----------------------------------	----------------------------------	----------------------------------



IP20

IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class I Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



5 Year
Guarantee
Warranty
5 year Guarantee



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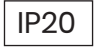
Datasheet Code: PA-10179-10



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P&A



TL-TRK

Track

TL-TRK is a slimline LED tubular spotlight mounted on a low profile track. The low profile track adaptor allows for the gear to be hidden inside the track. Compatible with global trac PRO and Global trac PULSE. Available in diameter of 90mm & 125mm and in a range of outputs to suit your needs.

- Efficacy of up to 121 lm/W.
- Colour temperatures: 3000°k, 4000°k
- Colour Finishes: Black (9005) as standard. Other RAL colours, available on request.
- Available in a choice of beam angles 20 °, 30 ° and 50°
- Optional DALI 1-100% dimming.
- Wireless control options: Casambi.
- Standalone Emergency options available

Technical

Product	TL-TRK90 TL-TRK125
Mounting type	Track
Diameters	90 & 125mm
Lumen	1710-2186 Lm
Efficacy	Upto 121 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	20° 30° 50°
Control	DALI 1-100%, Fixed output, Casambi.
Emergency	Upon request
Rendering	Ra90
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>92K

P&A

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Datasheet Code: PA-PAT-TL

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MADE IN BRITAIN®

P&A TL-TRK

Luminaire Order Builder

TL-TRK90 (90mmØ)

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.
Select Current	Optics	CCT	Control	Finish	Emergency
35 350mA 1700 Lm - 14.5W	20 20° Degree beam	3K 3000K	FO Fixed Output	B RAL9005	EM Stand alone emergency track spot available upon request
40 400mA 1943 Lm - 16.6W	30 30° Degree beam	4K 4000K	A1 DALI 1-100% Dim	Z Custom	
	50 50° Degree beam		A5 Casambi		

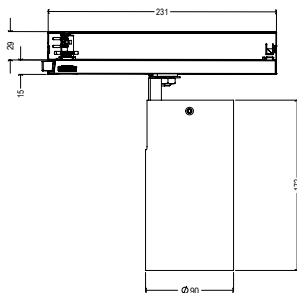
Example Code: TLTRK9030204KFOB

TL-TRK125 (125mmØ)

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.
Select Current	Optics	CCT	Control	Finish	Emergency
50 500mA 2376 Lm - 20W	20 20° Degree beam	3K 3000K	FO Fixed Output	B RAL9005	EM Stand alone emergency track spot available upon request
55 550mA 2614 Lm - 22W	30 30° Degree beam	4K 4000K	A1 DALI 1-100% Dim	Z Custom	
60 600mA 2851 Lm - 24W	50 50° Degree beam		A5 Casambi		

Example Code: TLTRK12550204KFOB

All electrical and optical data subject to ±10% tolerances.
 Values based on 4000K Colour temperature and CRI90
 CRI80 available on upon request



Dimensions

DØ	L	Finish	Code	Colour Swatch
90	172	Black	9005	
125	172	Custom*	Custom*	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request



IP20
 Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
 Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
 5 year Guarantee

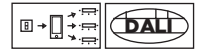
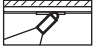


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 01704 891333
 sales@pandaprojects.co.uk
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Datasheet Code: PA-PAT-TL

CE BS EN60598-1:2015
 ISO 9001 Certification





TL-TRK70

Track

TL-TRK70 is a slimline LED tubular spotlight mounted on a low profile track. The low profile track adaptor allows for the gear to be hidden inside the track. Compatible with global trac PRO and Global trac PULSE. Available in diameter of 76mm and in a range of outputs and optics to suit your needs.

- Efficacy of up to 106 lm/W.
- Colour temperatures: 3000°k or 4000°k.
- Colour Finishes: Black (9005) as standard. Other RAL colours, available on request.
- Available in a choice of beam angles 10°, 14°, 35° and 50°.
- Optional DALI 1-100% dimming.
- Wireless control options: Casambi.
- Standalone Emergency options available.

Technical

Product	TL-TRK70
Mounting type	Track
Diameters	76mm
Lumen	1506-1937 Lm
Efficacy	Up to 106 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	10° 14° 35° 55°
Control	DALI 1-100%, Fixed output, Casambi.
Emergency	Standalone EM upon request
Rendering	Ra80/90
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>92K

PA TL-TRK70

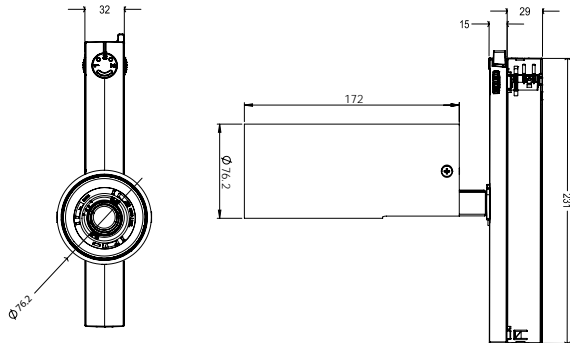
Luminaire Order Builder

TL-TRK70

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.
Select Current	Optics	CCT	Control	Finish	Emergency
35 350mA 1506 Lm - 14.2W	10 10° degree beam	3K 3000K	FO Fixed Output	B RAL9005 + Black Reflector	EM Stand alone emergency track spot available upon request
40 400mA 1722 Lm - 16.2W	14 14° degree beam	4K 4000K	A1 DALI 1-100% Dim	Z Custom	
45 450mA 1937 Lm - 18.2W	35 35° degree beam		A5 Casambi		
	55 55° degree beam				

All electrical and optical data subject to ±10% tolerances.
 Values based on 4000K Colour temperature, 55° Beam and CRI80.
 CRI90 available on upon request.

Example Code: TLTRK7040144KFOB



Dimensions

DØ	L
76.2	172

All dimensions are measured in millimetres (mm)

Finish

RAL	Code	Colour Swatch
Black	9005	
Custom*	Custom*	

*Custom Colours upon request



IP20
 Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
 Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
 5 year Guarantee



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 www.pandaprojects.co.uk

Datasheet Code: PA-10791-10



BS EN60598-1:2015
 ISO 9001 Certification





3K

4K

IP20



Image shown with optional flex**

AMPHOR

Pendant

AMPHOR is a elegant and decorative LED pendant luminaire. With its teardrop shape it creates the perfect illumination for your office break out spaces. It can be used for general lighting or can be installed as a group to create feature.

- Efficacy of up to 143lm/W.
- Colour temperatures: 3000°k and 4000°k.
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request*.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Supplied in PMMA as standard.
- Globe supplied with ceiling rose as standard (excluding flex**).
- Optional Flex available, In 3-5 core, Clear, Black or White as standard. Custom colours and lengths available upon request.
- Emergency not available.

Technical

Product	AMPHOR
Mounting type	Pendant
Diameter	300mm 400mm
Lumens	2065 - 3871 lm
Efficacy	Up to 143 Lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal PMMA diffuser
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output
Emergency	Not Available
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

* Monks cap and Ceiling rose only.

**Excluding flex, see page 3 for flex options.

Luminaire Order Builder

AMP3 (300mmØ)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
40 400mA 2065 Lm -14.3W	O Opal Diffuser PMMA	3K 3000K	FO Fixed Output	W RAL9016M	- Not Available
45 450mA 2360 Lm -16.3W		4K 4000K	A1 DALI 1-100%	B RAL9005	
50 500mA 2655 Lm -18.7W		A2 DSI	S RAL9006		
55 550mA 2950 Lm -21.3W		A3 Switch Dim	Z Custom		
			A4 1-10v		
			A5 Casambi		

All electrical and optical data subject to $\pm 10\%$ tolerances. Values based on 4000K Colour temperature.

Example Code: AMP340O4KA1W

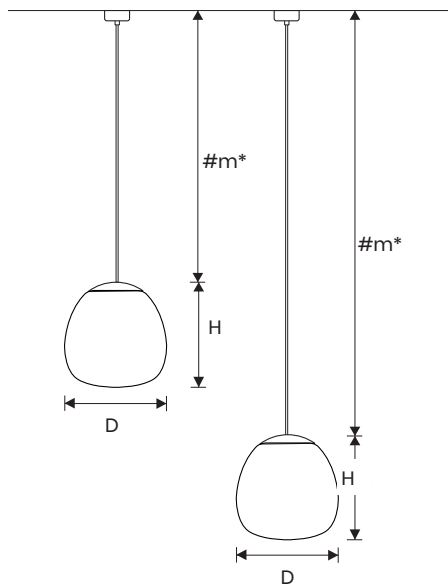
AMP4 (400mmØ)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
50 500mA 2945 Lm -20.7W	O Opal Diffuser PMMA	3K 3000K	FO Fixed Output	W RAL9016M	- Not Available
55 550mA 3179 Lm -22.4W		4K 4000K	A1 DALI 1-100%	B RAL9005	
60 600mA 3468 Lm -24.5W		A2 DSI	S RAL9006		
65 650mA 3595 Lm -25.7W		A3 Switch Dim	Z Custom		
70 700mA 3871 Lm -27.7W		A4 1-10v			
			A5 Casambi		

All electrical and optical data subject to $\pm 10\%$ tolerances. Values based on 4000K Colour temperature and DALI driver.

Example Code: AMP460O4KA1W

P&A AMPHOR



Dimensions

D Ø	H Ø
300	300
400	400

All dimensions are measured in millimetres (mm)
*Custom lengths available upon request

Finish

RAL	Code	Colour Swatch
White	9016M	
Black	9005	
Silver	9006	
Custom*	Custom*	

*Custom Colours upon request
Monks cap & Ceiling Rose only

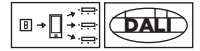
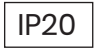
Ancillaries

Wire Suspensions	Code
3m Wire suspension kit	GL-WS-3M
Custom length (1m increments)	GL-WS-#M
Clear 0.75mm², Supply Cable	
3 core, Clear, 3m	FL-3C-C-3M
3 core, Clear, Custom Length*	FL-3C-C-#M
5 core, Clear, 3m	FL-5C-C-3M
5 core, Clear, Custom Length*	FL-5C-C-#M
Black 0.75mm², Supply Cable	
3 core, Black, 3m	FL-3C-B-3M
3 core, Black, Custom Length*	FL-3C-B-#M
5 core, Clear, 3m	FL-5C-B-3M
5 core, Clear, Custom Length*	FL-5C-B-#M
White 0.75mm², Supply Cable	
3 core, White, 3m	FL-3C-W-3M
3 core, White, Custom Length*	FL-3C-W-#M
5 core, Clear, 3m	FL-5C-W-3M
5 core, Clear, Custom Length*	FL-5C-W-#M

*Please replace Z with required cut meter length.

Ancillaries images





DRM

Surface/Suspended

DRM is an architectural feature luminaire, supplied as either surface or wire suspended. Manufactured from spun aluminium, it is available in 500mm, 600mm, 700mm and 900mm diameters. Supplied as standard with direct/indirect distribution, in a range of outputs to suit your needs

- Efficacy of up to 140 lm/W.
- Colour temperatures: 3000°k and 4000°k.
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Suspended Luminaire supplied complete with individual wire suspensions, which are adjustable up to 3m length as standard*.
- Custom length wire suspension, Clear, Black or White flex are also available.
- 300mm Version Available upon request.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.

Technical

Product	DRM
Mounting type	Surface Suspended
Diameters	500-900mm
Lumens	3203 - 12449lm
Efficacy	Upto 140 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal diffuser
Control	DALI 1-100%, DSI, 1-10V, Casambi
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

* Central single point fixing via ceiling rose available as additional item – see ancillaries.

Surface mounted version shown above

Luminaire Order Builder

DRM5 (500mmØ)

STEP 1. Select Mounting	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
SF Surface	45 450mA 3203 Lm - 35.8W	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
WS Wire Suspended	57 575mA 3391 Lm - 38.7W		4K 4000K	A1 DALI 1-100%	B RAL9005	ED DALI/EMPRO
				A2 DSI	S RAL9006	ES Self-Test
				A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
				A4 1-10v		
				A5 Casambi		

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature, Opal Diffuser and white housing

Example Code: DRM5WS3504KA1WE3

DRM6 (600mmØ)

STEP 1. Select Mounting	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
SF Surface	57 575mA 4021 Lm - 47.4W	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
WS Wire Suspended	70 700mA 4638 Lm - 58.7W		4K 4000K	A1 DALI 1-100%	B RAL9005	ED DALI/EMPRO
				A2 DSI	S RAL9006	ES Self-Test
				A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
				A4 1-10v		
				A5 Casambi		

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature, Opal Diffuser and white housing

Example Code: DRM6WS5704KA1WE3

Luminaire Order Builder

DRM7 (700mmØ)

STEP 1. Select Mounting	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
SF Surface	57 575mA 3820 Lm - 47.4W	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
WS Wire Suspended	70 700mA 4406 Lm - 58.7W		4K 4000K	A1 DALI 1-100%	B RAL9005	ED DALI/EMPRO
				A2 DSI	S RAL9006	ES Self-Test
				A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
				A4 1-10v		
				A5 Casambi		

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature, Opal Diffuser and white housing.

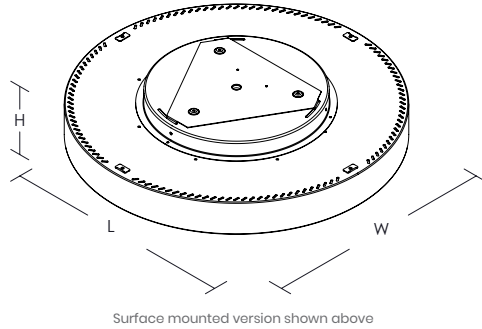
Example Code: DRM7WS57O4KA1WE3

DRM9 (900mmØ)

STEP 1. Select Mounting	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
SF Surface	45 450mA 8233 Lm - 59.3W	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
WS Wire Suspended	70 700mA 12449 Lm - 91.7W		4K 4000K	A1 DALI 1-100%	B RAL9005	ED DALI/EMPRO
				A2 DSI	S RAL9006	ES Self-Test
				A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
				A4 1-10v		
				A5 Casambi		

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature, Opal Diffuser and white housing.

Example Code: DRM9WS70O4KA1WE3



Dimensions

L	W	H*
500	500	116
600	600	118
700	700	116
900	900	116

Finish

RAL	Code	Colour Swatch
White	9016M	
Black	9005	
Silver	9006	
Custom*	Custom*	

All dimensions are measured in millimetres (mm)
*Including rear gear housing.

*Custom Colours upon request

Ancillaries

Wire Suspensions	Code
3m Wire suspension kit	DRM-WS-3M
Custom length (1m increments)	DRM-WS-ZM

Clear 0.75mm², Supply Cable

3 core, Clear, 3m	FL-3C-C-3M
3 core, Clear, Custom Length*	FL-3C-C-ZM
5 core, Clear, 3m	FL-5C-C-3M
5 core, Clear, Custom Length*	FL-5C-C-ZM
6 core, Clear, 3m	FL-6C-C-3M
6 core, Clear, Custom Length*	FL-6C-C-ZM

Black 0.75mm², Supply Cable

3 core, Black, 3m	FL-3C-B-3M
3 core, Black, Custom Length*	FL-3C-B-ZM
5 core, Black, 3m	FL-5C-B-3M
5 core, Black, Custom Length*	FL-5C-B-ZM
6 core, Black, 3m	FL-6C-B-3M
6 core, Black, Custom Length*	FL-6C-B-ZM

White 0.75mm², Supply Cable

3 core, White, 3m	FL-3C-W-3M
3 core, White, Custom Length*	FL-3C-W-ZM
5 core, White, 3m	FL-5C-W-3M
5 core, White, Custom Length*	FL-5C-W-ZM
6 core, White, 3m	FL-6C-W-3M
6 core, White, Custom Length*	FL-6C-W-ZM

Decorative Ceiling Rose, with 6 Way Wago terminal (c/w central hole for single wire suspension fixing).

Silver RAL9006	CR-120-I-S
Black RAL9005	CR-120-I-B
White RAL9016	CR-120-I-W
Custom RAL Colour**	CR-120-I-Z

*Please replace Z with required cut meter length.

**Please replace Z with required Custom RAL Colour.

Ancillaries images

3m Wire suspension kit	Decorative Ceiling Rose, with 6 Way Wago terminal.
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Distribution Type

Direct/Indirect



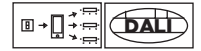


Image shown with optional flex**

ELIP

Pendant

Elip is a decorative LED pendant luminaire. It can be used for general lighting or can be installed as a group to create feature.

- Efficacy of up to 132 lm/W.
- Colour temperatures: 3000°k and 4000°k.
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request*.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Supplied in PMMA as standard.
- Elip supplied with ceiling rose as standard (excluding flex**).
- Optional Flex available, In 3-5 core, Clear, Black or White as standard. Custom colours and lengths available upon request.
- Emergency not available.

Technical

Product	Elip
Mounting type	Pendant
Diameters	400mm
Lumens	2760 - 3751 lm
Efficacy	Up to 132 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal PMMA diffuser
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output
Emergency	Not Available
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

* Monks cap and Ceiling rose only.

**Excluding flex, see page 3 for flex options.

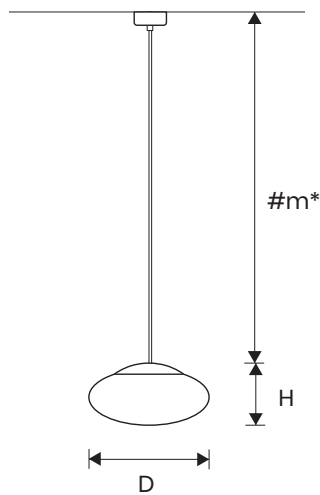
Luminaire Order Builder

ELIP4 (400mmØ)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
50 500mA 2760 Lm -20.4W 55 550mA 2994 Lm -22.3W 60 600mA 3267Lm -24.4W 65 650mA 3445 Lm -26.2W 70 700mA 3751 Lm -28.3W	O Opal Diffuser PMMA	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	- Not Available

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature and fixed output driver.

Example Code: ELIP47004KA1W



Dimensions

D Ø	H Ø
400	200

All dimensions are measured in millimetres (mm)

Finish

RAL	Code	Colour Swatch
White	9016M	
Black	9005	
Silver	9006	
Custom*	Custom*	

*Custom Colours upon request
Monks cap & Ceiling Rose only

Ancillaries

Wire Suspensions	Code
3m Wire suspension kit	ELIP-WS-3M
Custom length (1m increments)	ELIP-WS-#M
Clear 0.75mm², Supply Cable	
3 core, Clear, 3m	FL-3C-C-3M
3 core, Clear, Custom Length*	FL-3C-C-#M
5 core, Clear, 3m	FL-5C-C-3M
5 core, Clear, Custom Length*	FL-5C-C-#M
Black 0.75mm², Supply Cable	
3 core, Black, 3m	FL-3C-B-3M
3 core, Black, Custom Length*	FL-3C-B-#M
5 core, Clear, 3m	FL-5C-B-3M
5 core, Clear, Custom Length*	FL-5C-B-#M
White 0.75mm², Supply Cable	
3 core, White, 3m	FL-3C-W-3M
3 core, White, Custom Length*	FL-3C-W-#M
5 core, Clear, 3m	FL-5C-W-3M
5 core, Clear, Custom Length*	FL-5C-W-#M

*Please replace Z with required cut meter length.

Ancillaries images

CR75 Ceiling Rose



IP20	IP20 Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm		Safety Class Class 1 Safety chassis is connected to earth with a separate terminal, instead of via the mains cable		Warranty 5 year Guarantee
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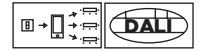


Image shown with optional flex**

GLOBE

Pendant

GLOBE is a decorative LED pendant luminaire. It can be used for general lighting or can be installed as a group to create feature.

- Efficacy of up to 152 lm/W.
- Colour temperatures: 3000°k and 4000°k.
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request*.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Supplied in PMMA as standard.
- Globe supplied with ceiling rose as standard (excluding flex**).
- Optional Flex available, In 3-5 core, Clear, Black or White as standard. Custom colours and lengths available upon request.
- Emergency not available.

Technical

Product	GLOBE
Mounting type	Pendant
Diameters	300mm 400mm
Lumens	2245 - 3822 lm
Efficacy	Up to 152 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal PMMA diffuser
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output
Emergency	Not Available
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

* Monks cap and Ceiling rose only.

**Excluding flex, see page 3 for flex options.

Luminaire Order Builder

GL3 (300mmØ)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
35 350mA 2245 Lm -15.3W 40 400mA 2573 Lm -16.8W 45 500mA 2894 Lm -18.9W 50 500mA 3170 Lm -21.4W	O Opal Diffuser PMMA	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	- Not Available

All electrical and optical data subject to $\pm 10\%$ tolerances. Values based on 4000K Colour temperature and fixed output driver.

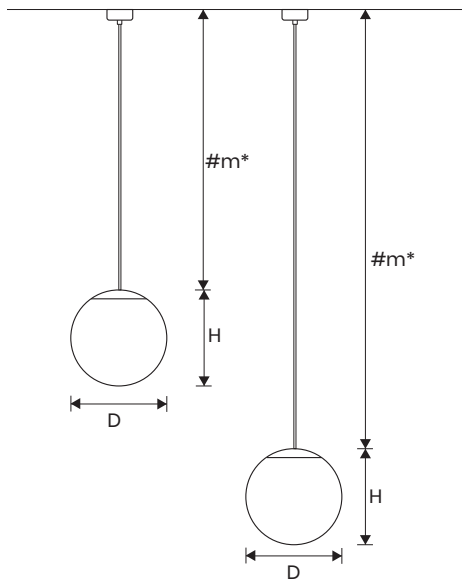
Example Code: GL34004KA1W

GL4 (400mmØ)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
50 500mA 2989 Lm -20.6W 55 550mA 3287 Lm -22.6W 60 600mA 3442 Lm -24.4W 65 650mA 3728Lm -26.4W 70 700mA 3822 Lm -27.6W	O Opal Diffuser PMMA	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	- Not Available

All electrical and optical data subject to $\pm 10\%$ tolerances. Values based on 4000K Colour temperature and DALI driver.

Example Code: GL46004KA1W



Dimensions

D Ø	H Ø
300	300
400	400

All dimensions are measured in millimetres (mm)
*Custom lengths available upon request

Finish

RAL	Code	Colour Swatch
White	9016M	
Black	9005	
Silver	9006	
Custom*	Custom*	

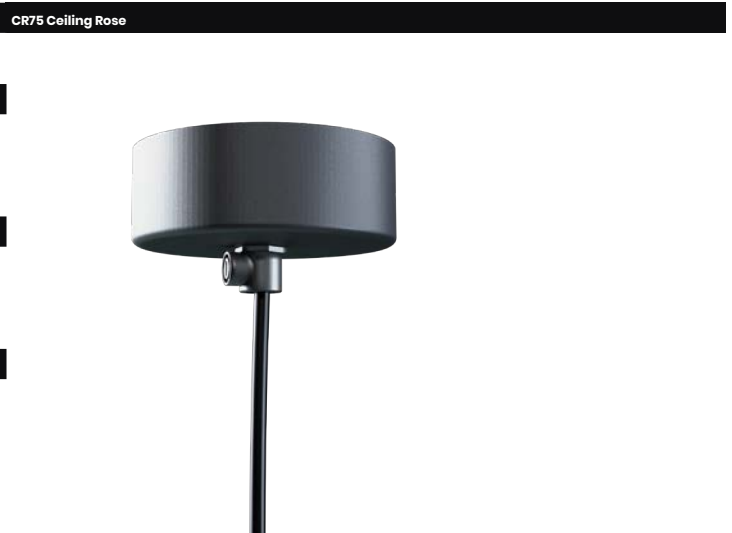
*Custom Colours upon request
Monks cap & Ceiling Rose only

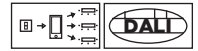
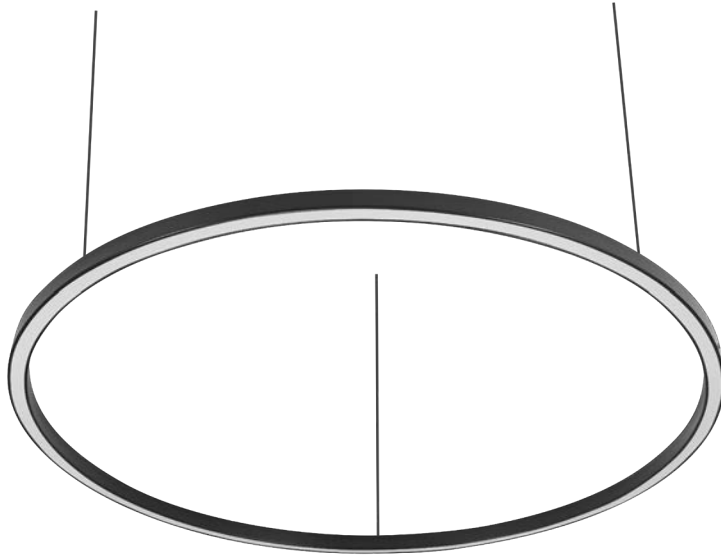
Ancillaries

Wire Suspensions	Code
3m Wire suspension kit	GL-WS-3M
Custom length (1m increments)	GL-WS-#M
Clear 0.75mm², Supply Cable	
3 core, Clear, 3m	FL-3C-C-3M
3 core, Clear, Custom Length*	FL-3C-C-#M
5 core, Clear, 3m	FL-5C-C-3M
5 core, Clear, Custom Length*	FL-5C-C-#M
Black 0.75mm², Supply Cable	
3 core, Black, 3m	FL-3C-B-3M
3 core, Black, Custom Length*	FL-3C-B-#M
5 core, Clear, 3m	FL-5C-B-3M
5 core, Clear, Custom Length*	FL-5C-B-#M
White 0.75mm², Supply Cable	
3 core, White, 3m	FL-3C-W-3M
3 core, White, Custom Length*	FL-3C-W-#M
5 core, Clear, 3m	FL-5C-W-3M
5 core, Clear, Custom Length*	FL-5C-W-#M

*Please replace Z with required cut meter length.

Ancillaries images





HALO

Suspended

HALO is a decorative, suspended feature luminaire. Its sleek minimalist appearance, creates the perfect statement for any area. Available in 500mm, 900mm, 1200mm and 1500mm as standard, with direct as standard, in range of outputs to suit your needs.

- Colour temperatures: 3000°k and 4000°k.
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10V**.
- Wireless control options: Casambi**.
- Luminaire supplied complete with individual wire suspensions, which are adjustable up to 3m length as standard*.
- Custom length wire suspension, Clear, Black or White flex are also available.
- Special Projects: Direct/Indirect upon request***.
- Emergency not available.



Technical

Product	HALO
Mounting type	Suspended
Standard Diameter	500-1500mm
Lumens	753-4710 Lm
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal diffuser
Control	DALI 1-100%, DSI, 1-10V, Casambi
Emergency	Not available
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 4
L70/B10	>50K

* Central single point fixing via ceiling rose available as additional item – see ancillaries.

**Drivers, Wireless controls and emergency versions are fully remote and need to be located in the adjacent ceiling void.

*** Please contact P&A Technical Department for assistance.

Luminaire Order Builder

HALO5-WS (500mmØ)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
LO 24V Low Output 753Lm - 17.3W HI 24V High Output 1570Lm - 33W	O Opal Diffuser	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	- Not available Please see separate emergency products

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.
All values based on Initial Lumens.

Example Code: HALO5HIO4KA1W

HALO9-WS (900mmØ)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
LO 24V Low Output 1356Lm - 31W HI 24V High Output 2995Lm - 59.3W	O Opal Diffuser	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	- Not available Please see separate emergency products

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.
All values based on Initial Lumens.

Example Code: HALO9-LO4KA1W

Luminaire Order Builder

HALO12-WS (1200mmØ)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
LO 24V Low Output 1808Lm - 41W HI 24V High Output 3768Lm - 79.2W	O Opal Diffuser	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	- Not Available Please see separate emergency products

All electrical and optical data subject to ± 10% tolerances.
Values based on 4000K Colour temperature.
All values based on Initial Lumens.

Example Code: HALO12HIO4KAIW

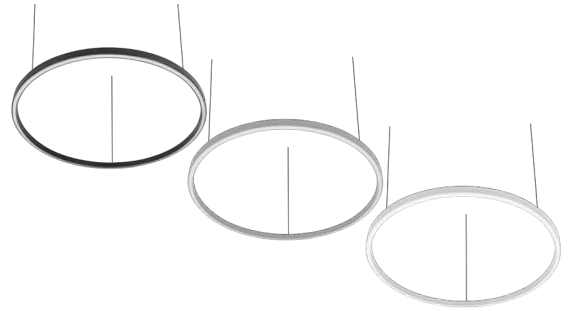
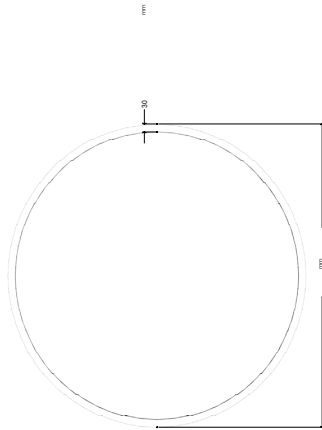
HALO15-WS (1500mmØ)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
LO 24V Low Output 2260Lm - 52W HI 24V High Output 4710Lm - 98.9W	O Opal Diffuser	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	- Not Available Please see separate emergency products

All electrical and optical data subject to ± 10% tolerances.
Values based on 4000K Colour temperature.
All values based on Initial Lumens.

Example Code: HALO15HIO4KAIW

P&A HALO



Dimensions

DØ	W	H	Finish	RAL	Code	Colour Swatch
500	30	30	White		9016M	
900	30	30	Black		9005	
1200	30	30	Silver		9006	
1500	30	30	Custom*		Custom*	

All dimensions are measured in millimetres (mm)

Finish

*Custom Colours upon request

Ancillaries

Wire Suspensions	Code
3m Wire suspension kit	HALO-WS-3M
Custom length (1m increments)	HALO-WS-ZM

Clear 0.75mm ² , Supply Cable	
3 core, Clear, 3m	FL-3C-C-3M
3 core, Clear, Custom Length*	FL-3C-C-ZM
5 core, Clear, 3m	FL-5C-C-3M
5 core, Clear, Custom Length*	FL-5C-C-ZM
6 core, Clear, 3m	FL-6C-C-3M
6 core, Clear, Custom Length*	FL-6C-C-ZM

Black 0.75mm ² , Supply Cable	
3 core, Black, 3m	FL-3C-B-3M
3 core, Black, Custom Length*	FL-3C-B-ZM
5 core, Black, 3m	FL-5C-B-3M
5 core, Black, Custom Length*	FL-5C-B-ZM
6 core, Black, 3m	FL-6C-B-3M
6 core, Black, Custom Length*	FL-6C-B-ZM

White 0.75mm ² , Supply Cable	
3 core, White, 3m	FL-3C-W-3M
3 core, White, Custom Length*	FL-3C-W-ZM
5 core, White, 3m	FL-5C-W-3M
5 core, White, Custom Length*	FL-5C-W-ZM
6 core, White, 3m	FL-6C-W-3M
6 core, White, Custom Length*	FL-6C-W-ZM

Decorative Ceiling Rose, with 6 Way Wago terminal (c/w central hole for single wire suspension fixing).	
Silver RAL9006	CR-120-T-S
Black RAL9005	CR-120-T-B
White RAL9016	CR-120-T-W
Custom RAL Colour**	CR-120-T-Z

*Please replace Z with required cut meter length.

**Please replace Z with required Custom RAL Colour.

Ancillaries images

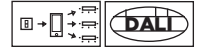
3m Wire suspension kit (supplied as standard) Decorative Ceiling Rose, with 6 Way Wago terminal.



Distribution Types

Direct/Indirect





HEX

Surface/Suspended

HEX is a hexagonal feature luminaire that can be surface mounted or wire suspended, Available in 500mm, 700mm and 900mm diameter as standard, with direct distribution, in a range of outputs to suit your needs.

- Efficacy of up to 127 lm/W.
- Colour temperatures: 3000°k and 4000°k.
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Suspended luminaire supplied with adjustable support wires and individual mounting brackets as standard**.
- Custom length wire suspension, Clear, Black or White flex are also available.
- Emergency options: Standard 3hr, Self-Test or Dali addressable, 3hr Dali Wireless Sentinel.

Technical

Product	HEX
Mounting type	Surface Suspended
Diameters	500-900mm
Lumens	3203 - 11705lm
Efficacy	Upto 127 Lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal diffuser
Control	DALI 1-100%, DSI, 1-10V, Casambi, Bluetooth.
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>54K

** Central single point fixing via ceiling rose available as additional item – see ancillaries.

Luminaire Order Builder

HEX5 (500mmØ)

STEP 1. Select Mounting	STEP 2. Current	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
SF Surface	45 450mA 3203 Lm - 35.8W	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
WS Wire Suspended	57 575mA 3935 Lm - 48.4W	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
			A2 DSI	S RAL9006	ES Self-Test
			A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
			A4 1-10v		
			A5 Casambi		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: HEX5SF454KA1WE3

HEX7 (700mmØ)

STEP 1. Select Mounting	STEP 2. Current	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
SF Surface	57 575mA 4021Lm - 47.4W	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
WS Wire Suspended	70 700mA 4638Lm - 58.7W	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
			A2 DSI	S RAL9006	ES Self-Test
			A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
			A4 1-10v		
			A5 Casambi		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: HEX7WS704KA1WE3

P&A HEX

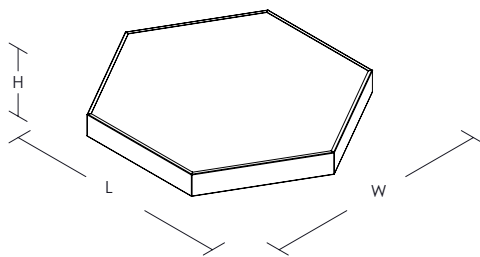
Luminaire Order Builder

HEX9 (900mmØ)

STEP 1. Select Mounting	STEP 2. Current	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
SF Surface	45 450mA 7813Lm - 59.3W	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
WS Wire Suspended	70 700mA 11705Lm - 92.4W	4K 4000K	A1 DALI 1-100%	B RAL9005	ED DALI/EMPRO
			A2 DSI	S RAL9006	ES Self-Test
			A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
			A4 1-10v		
			A5 Casambi		

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature.

Example Code: HEXSF454KA1WE3



Dimensions

L	W	H
500	435	83
700	610	83
900	785	83

All dimensions are measured in millimetres (mm)

Finish

RAL	Code	Colour Swatch
White	9016M	
Black	9005	
Silver	9006	
Custom*	Custom*	

*Custom Colours upon request

Ancillaries

Wire Suspensions	Code
3m Wire suspension kit	SS50-WS-3M
Custom length (1m increments)	SS50-WS-ZM

Clear 0.75mm², Supply Cable

3 core, Clear, 3m	FL-3C-C-3M
3 core, Clear, Custom Length*	FL-3C-C-ZM
5 core, Clear, 3m	FL-5C-C-3M
5 core, Clear, Custom Length*	FL-5C-C-ZM
6 core, Clear, 3m	FL-6C-C-3M
6 core, Clear, Custom Length*	FL-6C-C-ZM

Black 0.75mm², Supply Cable

3 core, Black, 3m	FL-3C-B-3M
3 core, Black, Custom Length*	FL-3C-B-ZM
5 core, Black, 3m	FL-5C-B-3M
5 core, Black, Custom Length*	FL-5C-B-ZM
6 core, Black, 3m	FL-6C-B-3M
6 core, Black, Custom Length*	FL-6C-B-ZM

White 0.75mm², Supply Cable

3 core, White, 3m	FL-3C-W-3M
3 core, White, Custom Length*	FL-3C-W-ZM
5 core, White, 3m	FL-5C-W-3M
5 core, White, Custom Length*	FL-5C-W-ZM
6 core, White, 3m	FL-6C-W-3M
6 core, White, Custom Length*	FL-6C-W-ZM

Decorative Ceiling Rose, with 6 Way Wago terminal (c/w central hole for single wire suspension fixing).

Silver RAL9006	CR-120-T-S
Black RAL9005	CR-120-T-B
White RAL9016	CR-120-T-W
Custom RAL Colour**	CR-120-T-Z

*Please replace Z with required cut meter length.

**Please replace Z with required Custom RAL Colour.

Ancillaries images

3m Wire suspension kit



Decorative Ceiling Rose, with 6 Way Wago terminal.



Distribution Type

Direct



IP20

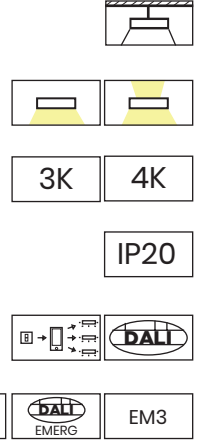
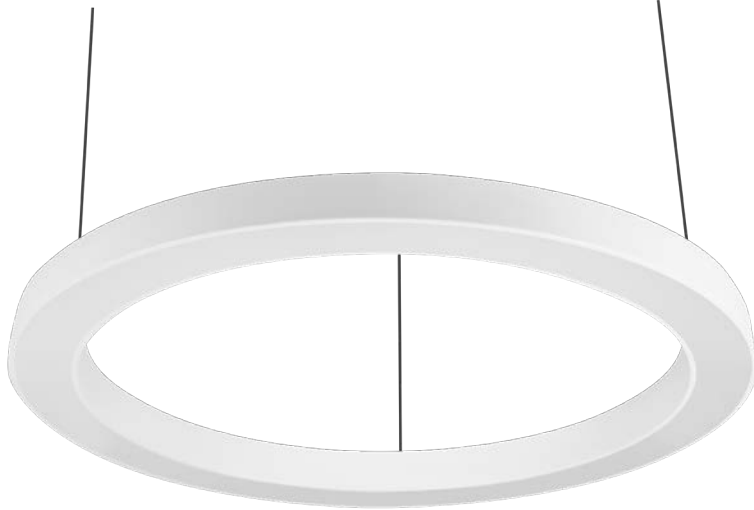
IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class 1 Safety chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee



POLO

Suspended

POLO is a suspended architectural luminaire, which is not only stylish in appearance, but has a substantial lumen package to go with it. Available in 500mm, 700mm, 900mm, 1200mm and 1500mm diameters as standard, with direct or direct/indirect distribution, in a range of outputs to suit your needs.

- Efficacy of up to 111 lm/W.
- Colour temperatures: 3000°k and 4000°k.
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Luminaire supplied complete with individual wire suspensions, which are adjustable up to 3m length as standard*.
- Custom length wire suspension, Clear, Black or White flex are also available.
- Special Outputs available upon request.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.

Technical

Product	POLO
Mounting type	Suspended
Standard Diameter	500-1500mm
Lumens	3109-11196 Llm
Efficacy	Upto 111 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal diffuser Microprism (UGR<19)
Control	DALI 1-100%, DSI, 1-10V, Casambi
Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

** Central single point fixing via ceiling rose available as additional item – see ancillaries.

Luminaire Order Builder

POLO5-WS (500mmØ Direct)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
35 350mA 3109Llm - 30.1W	D Direct	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ±10% tolerances.
 Values based on 4000K Colour temperature, Opal Diffuser and White housing.

Example Code: POLO5WS35DO4KAIWE3

POLO5-WS (500mmØ Direct/Indirect)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
35 350mA 4174Llm -39.1W	DI Direct/Indirect	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ±10% tolerances.
 Values based on 4000K Colour temperature, Opal Diffuser and White housing.

Example Code: POLO5WS35DIO4KAIWE3

Luminaire Order Builder

POLO7-WS (700mmØ Direct)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
35 350mA 4349Llm - 39.1W	D Direct	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ± 10% tolerances.
Values based on 4000K Colour temperature, Opal Diffuser and White housing.

Example Code: POLO7WS35DO4KA1WE3

POLO7-WS (700mmØ Direct/Indirect)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
35 350mA 5778Llm - 51.2W	DI Direct/Indirect	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ± 10% tolerances.
Values based on 4000K Colour temperature, Opal Diffuser and White housing.

Example Code: POLO7WS35DIO4KA1WE3

Luminaire Order Builder

POLO9-WS (900mmØ Direct)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
35 350mA 5592lm - 54.2W	D Direct	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature, Opal Diffuser and White housing.

Example Code: POLO9WS35DO4KA1WE3

POLO9-WS (900mmØ Direct/Indirect)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
35 350mA 7381lm -69.6W	DI Direct/indirect	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature, Opal Diffuser and White housing.

Example Code: POLO9WS35DIO4KA1WE3

Luminaire Order Builder

POLO12-WS (1200mmØ Direct)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
35 350mA 7442Llm - 69.6W	D Direct	O Opal Diffuser M Microprism UGR19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature, Opal Diffuser and White housing.

Example Code: POLO12WS35DO4KA1WE3

POLO12-WS (1200mmØ Direct/Indirect)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
35 350mA 9289Llm - 86.2W	DI Direct/indirect	O Opal Diffuser M Microprism UGR19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature, Opal Diffuser and White housing.

Example Code: POLO12WS35DIO4KA1WE3

Luminaire Order Builder

POLO15-WS (1500mmØ Direct)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
35 350mA 9293Llm - 89.9W	D Direct	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature, Opal Diffuser and White housing.

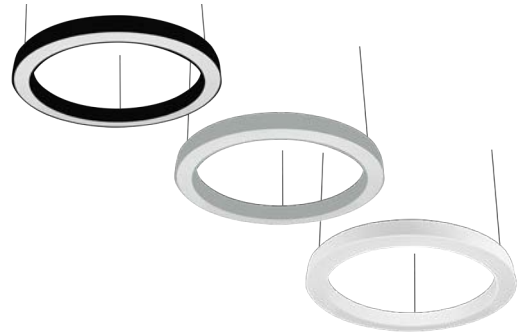
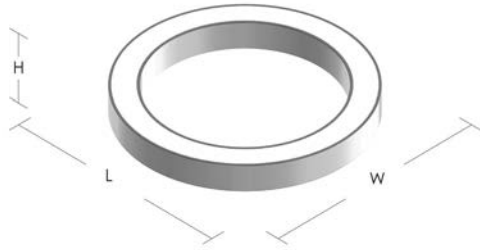
Example Code: POLO15WS35DO4KA1WE3

POLO15-WS (1500mmØ Direct/Indirect)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
35 350mA 11196Llm -104.9W	DI Direct/indirect	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature, Opal Diffuser and White housing.

Example Code: POLO15WS35DIO4KA1WE3



Dimensions

L	W	H	Finish	Code	Colour Swatch
500	500	80	White	9016M	
700	700	80	Black	9005	
900	900	80	Silver	9006	
1200	1200	80	Custom*	Custom*	
1500	1500	80			
Custom*	Custom*	80			

All dimensions are measured in millimetres (mm)
*Custom lengths upon request

Finish

*Custom Colours upon request

Ancillaries

Wire Suspensions	Code	Ancillaries images
3m Wire suspension kit	POLO-WS-3M	3m Wire suspension kit
Custom length (1m increments)	POLO-WS-ZM	Decorative Ceiling Rose, with 6 Way Wago terminal.

Clear 0.75mm², Supply Cable

3 core, Clear, 3m	FL-3C-C-3M
3 core, Clear, Custom Length*	FL-3C-C-ZM
5 core, Clear, 3m	FL-5C-C-3M
5 core, Clear, Custom Length*	FL-5C-C-ZM
6 core, Clear, 3m	FL-6C-C-3M
6 core, Clear, Custom Length*	FL-6C-C-ZM

Black 0.75mm², Supply Cable

3 core, Black, 3m	FL-3C-B-3M
3 core, Black, Custom Length*	FL-3C-B-ZM
5 core, Black, 3m	FL-5C-B-3M
5 core, Black, Custom Length*	FL-5C-B-ZM
6 core, Black, 3m	FL-6C-B-3M
6 core, Black, Custom Length*	FL-6C-B-ZM

White 0.75mm², Supply Cable

3 core, White, 3m	FL-3C-W-3M
3 core, White, Custom Length*	FL-3C-W-ZM
5 core, White, 3m	FL-5C-W-3M
5 core, White, Custom Length*	FL-5C-W-ZM
6 core, White, 3m	FL-6C-W-3M
6 core, White, Custom Length*	FL-6C-W-ZM

Decorative Ceiling Rose, with 6 Way Wago terminal (c/w central hole for single wire suspension fixing).

Silver RAL9006	CR-120-T-S
Black RAL9005	CR-120-T-B
White RAL9016	CR-120-T-W
Custom RAL Colour**	CR-120-T-Z

*Please replace Z with required cut meter length.

**Please replace Z with required Custom RAL Colour.

Ancillaries images

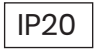


Distribution Types

Direct	Direct/Indirect
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P&A



SABRE

Suspended/Surface

SABRE is a suspended/surface cylindrical linear product, with high performance opal diffuser providing uniform illumination, profile dimension of 60mmØ x 1000mm or 1500mm.

- Efficacy of up to 130 lm/W.
- Colour temperatures: 3000°k or 4000°k.
- Colour Finishes: Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control option: Casambi.
- Maximum 1m wire suspension kit and mounting bracket supplied as standard.
- Custom length wire suspension, Clear, Black or White flex are also available.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.

Technical

Product	SABRE
Mounting type	Suspended/Surface
Standard Lengths	1000mm 1500mm
Lumen	Up to 5401 Lm
Efficacy	Up to 130 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal diffuser
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output
Remote Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

P&A

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Datasheet Code: PA-10834-0

CE BS EN60598-1:2015
ISO 9001 Certification

MADE IN BRITAIN®

Luminaire Order Builder SABRE10 (1000mm)

STEP 1. Select Mounting	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
SF Surface WS Wire Suspended	35 350mA 1955 Lm - 16.2W	O Opal Diffuser	3K 3000K	FO Fixed Output	S RAL9006	E3 Standard 3 Hour
	40 400mA 2234 Lm - 18.5W		4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
45 450mA 2513 Lm - 20.8W	A2 DSI		Z Custom	ES Self-Test		
50 500mA 2789 Lm - 22.5W	A3 Switch Dim		EW 3 hour DALI Wireless Sentinel			
55 500mA 3067 Lm - 25W	A4 1-10v					
60 600mA 3346 Lm - 27W	A5 Casambi					
65 650mA 3601 Lm - 29.4W						

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature and DALI driver.

Example Code: SBRI03504KA1W

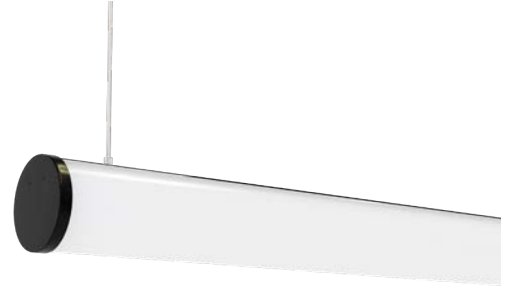
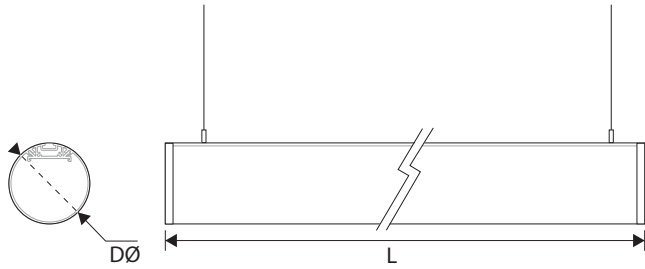
SABRE15 (1500mm)

STEP 1. Select Mounting	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
SF Surface WS Wire Suspended	35 350mA 2932 Lm - 24W	O Opal Diffuser	3K 3000K	FO Fixed Output	S RAL9006	E3 Standard 3 Hour
	40 400mA 3351 Lm - 28W		4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
45 450mA 3770 Lm - 31W	A2 DSI		Z Custom	ES Self-Test		
50 500mA 4183 Lm - 34W	A3 Switch Dim		EW 3 hour DALI Wireless Sentinel			
55 500mA 4601 Lm - 37W	A4 1-10v					
60 600mA 5020 Lm - 40W	A5 Casambi					
65 650mA 5401 Lm - 43W						

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature and DALI driver.

Example Code: SBRI53504KA1W

P&A SABRE



Dimensions

L	DØ
1000	60
1500	60
Custom*	60

Finish

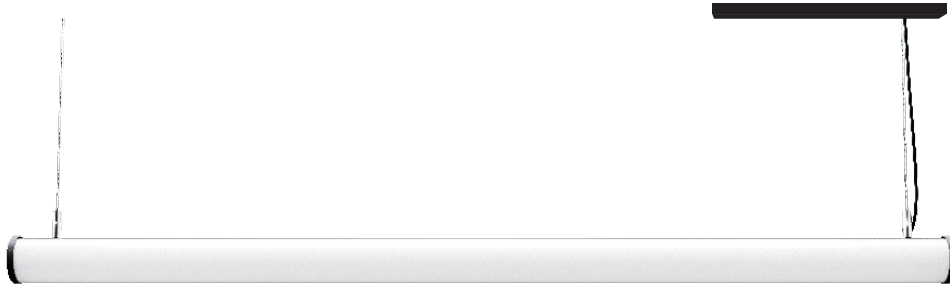
RAL	Code	Colour Swatch
Black	9005	
Silver	9006	
Custom*	Custom*	

All dimensions are measured in millimetres (mm)
*Custom Lengths up to max 2000mm available upon request

*Custom end cap Colours upon request

Ancillaries images

Slimline rectangle ceiling rose



IP20
IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class 1 Safety, chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee

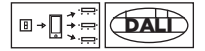
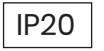
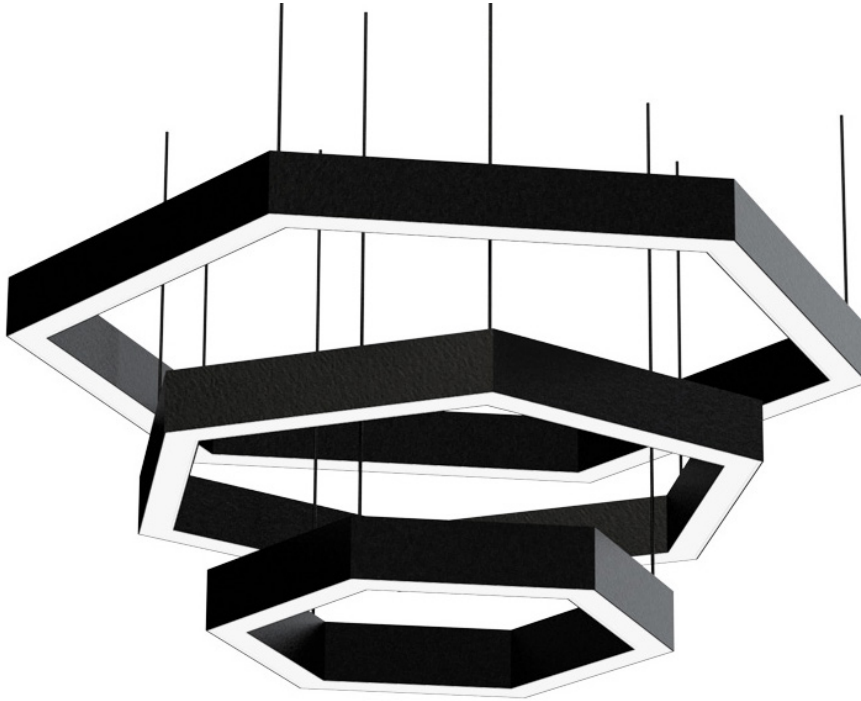


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CE BS EN60598-1:2015
ISO 9001 Certification

MADE IN BRITAIN



SubSpace HEX

Suspended

Subspace HEX is a stylish suspended architectural luminaire, creates the perfect statement within any space as individual pendants or combined to create a feature. Available in sizes of 600mm, 900mm and 1200mm as standard, with direct or direct/indirect distribution, with a variety of optics to suit your needs.

- Efficacy of up to 143 lm/W.
- LG7 Complaint, UGR<19 (when used with microprism diffuser).
- Colour temperatures: 3000°k, 4000°k or Tunable White (2700°k - 5700°k).
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- 3m wire suspension kit and mounting bracket supplied as standard per each pendant.
- Custom length wire suspension, Clear, Black or White flex are also available.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.
- Integrated PIR available upon request*.

Technical

Product	SubSpace HEX
Mounting type	Suspended
Standard Diameters	600-1200mm
Lumens	2212- 17693 lm
Efficacy	Up to 143 lm/W
Colour Temperature	Warm White (3K)
	Neutral White (4K)
	Tunable White (2.7K >5.7K)
Optics	Opal diffuser
	Microprism (UGR<19)
Control	DALI 1-100%, DSI, 1-10V, Casambi
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>75K

* Please contact P&A Technical Department for assistance

P&A SubSpace HEX

Luminaire Order Builder SH6-WS (600mmØ - Direct)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
15 150mA 2212 Lm - 15.5W	D Direct	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 2950 Lm - 20.8W						
25 250mA 3687 Lm - 26.2W						
30 300mA 4425 Lm - 29.5W						
35 350mA 5162 Lm - 37.3W						
40 400mA 5899 Lm - 42.9W						
		M Microprism UGR<19	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
			TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
				A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
				A4 1-10v		
				A5 Casambi		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: SH6WS15D04KA1WE3

SH6-WS (600mmØ - Direct/Indirect)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
15 150mA 3318 Lm - 23.2W	DI Direct/Indirect	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 4425 Lm - 31.1W						
25 250mA 5531 Lm - 39.2W						
30 300mA 6637 Lm - 47.4W						
35 350mA 7743 Lm - 55.8W						
40 400mA 8849 Lm - 64.2W						
		M Microprism UGR<19	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
			TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
				A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
				A4 1-10v		
				A5 Casambi		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: SH6WS25DIO4KA1WE3

PA SubSpace HEX

Luminaire Order Builder

SH9-WS (900mmØ - Direct)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
15 150mA 3318 Lm - 23.2W	D Direct	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 4425 Lm - 31.1W						
25 250mA 5531 Lm - 39.2W						
30 300mA 6637 Lm - 47.4W						
35 350mA 7743 Lm - 55.8W						
40 400mA 8849 Lm - 64.2W						
		M Microprism UGR<19	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
			TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
				A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
				A4 1-10v		
				A5 Casambi		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: SH9WS15D04KAIWE3

SH9-WS (900mmØ - Direct/Indirect)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
15 150mA 4425 Lm - 28.7W	DI Direct/Indirect	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 5899 Lm - 38.6W						
25 250mA 7374 Lm - 48.6W						
30 300mA 8849 Lm - 58.8W						
35 350mA 10324 Lm - 69.1W						
40 400mA 11799 Lm - 79.6W						
		M Microprism UGR<19	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
			TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
				A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
				A4 1-10v		
				A5 Casambi		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: SH9WS25DIO4KAIWE3



P&A SubSpace HEX

Luminaire Order Builder

SH12-WS (1200mmØ - Direct)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
15 150mA 4423 Lm - 30.8W	D Direct	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 5897 Lm - 41.4W		M Microprism UGR<19	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
25 250mA 7371 Lm - 52.2W			TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
30 300mA 8845 Lm - 63.2W				A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
35 350mA 10319 Lm - 74.3W				A4 1-10v		
40 400mA 11793 Lm - 85.6W				A5 Casambi		

All electrical and optical data subject to ± 10% tolerances.
Values based on 4000K Colour temperature.

Example Code: SH12WS15DO4KA1WE3

SH12-WS (1200mmØ - Direct/Indirect)

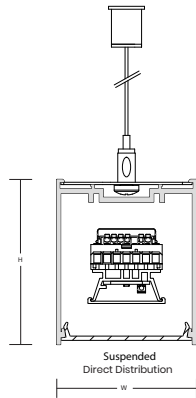
STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
15 150mA 6635 Lm - 46.3W	DI Direct/Indirect	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 8846 Lm - 62.2W		M Microprism UGR<19	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
25 250mA 11058 Lm - 78.4W			TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
30 300mA 13270 Lm - 94.8W				A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
35 350mA 15481 Lm - 111.5W				A4 1-10v		
40 400mA 17693 Lm - 128.5W				A5 Casambi		

All electrical and optical data subject to ± 10% tolerances.
Values based on 4000K Colour temperature.

Example Code: SH12WS25DIO4KA1WE3



P&A SubSpace HEX



Dimensions

D Ø	W	H	Finish	Code	Colour Swatch
600	50	85	White	9016	
900	50	85	Black	9005	
1200	50	85	Silver	9006	
Custom*	50	85	Custom*	Custom*	

All dimensions are measured in millimetres (mm).
*Custom lengths upon request.

*Custom Colours upon request.

Ancillaries

Wire Suspensions	Code	Ancillaries images
------------------	------	--------------------

3m Wire suspension kit	SS50-WS-3M
Custom length (1m increments)	SS50-WS-ZM

Clear 0.75mm ² , Supply Cable	
3 core, Clear, 3m	FL-3C-C-3M
3 core, Clear, Custom Length*	FL-3C-C-ZM
5 core, Clear, 3m	FL-5C-C-3M
5 core, Clear, Custom Length*	FL-5C-C-ZM
6 core, Clear, 3m	FL-6C-C-3M
6 core, Clear, Custom Length*	FL-6C-C-ZM

Black 0.75mm ² , Supply Cable	
3 core, Black, 3m	FL-3C-B-3M
3 core, Black, Custom Length*	FL-3C-B-ZM
5 core, Black, 3m	FL-5C-B-3M
5 core, Black, Custom Length*	FL-5C-B-ZM
6 core, Black, 3m	FL-6C-B-3M
6 core, Black, Custom Length*	FL-6C-B-ZM

White 0.75mm ² , Supply Cable	
3 core, White, 3m	FL-3C-W-3M
3 core, White, Custom Length*	FL-3C-W-ZM
5 core, White, 3m	FL-5C-W-3M
5 core, White, Custom Length*	FL-5C-W-ZM
6 core, White, 3m	FL-6C-W-3M
6 core, White, Custom Length*	FL-6C-W-ZM

*Please replace Z with required cut meter length.
**Please replace Z with required Custom RAL Colour.

3m Wire suspension kit (1 kit as shown supplied with each diameter)



Distribution Types

Direct	Direct/Indirect
--------	-----------------



IP20
IP20 Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm

Safety Class
Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable

5 Year Guarantee
Warranty 5 year Guarantee

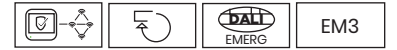
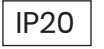
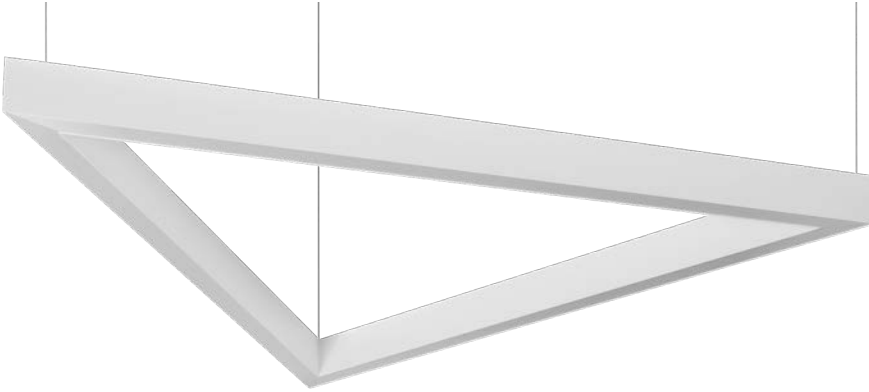


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CE BS EN60598-1:2015
ISO 9001 Certification

MADE IN BRITAIN

Datasheet Code: PA-SH



SubSpace TRI

Suspended

Subspace TRI is a wire suspended triangular luminaire, designed to make an architectural statement within any space. This 50 x 85mm profile, can be supplied in a variety of outputs, optics and colour finishes. Available in sizes of 600mm, 900mm and 1200mm as standard, with direct or direct/indirect distribution.

- Efficacy of up to 144 lm/W.
- LG7 Complaint, UGR<19 (when used with microprism diffuser).
- Colour temperatures: 3000°k, 4000°k or Tunable White (2700°k - 5700°k).
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v, DALI 10-100%.
- Wireless control options: Casambi.
- Luminaire supplied complete with 3m adjustable wire suspensions and 3m clear supply flex as standard.
- Custom length wire suspension, Clear, Black or White flex are also available.
- Emergency options: Standard 3hr, Self-Test or Dali addressable, 3hr Dali Wireless Sentinel.
- Integrated PIR available upon request*.

Technical

Product	SubSpace TRI
Mounting type	Suspended
Standard Diameters	600-1200mm
Lumens	2211 - 15480 Lm
Efficacy	Up to 144 lm/W
Colour Temperature	Warm White (3K)
	Neutral White (4K)
	Tunable White (2.7K >5.7K)
Optics	Opal diffuser
	Microprism (UGR<19)
Control	DALI 1-100%, DSI, 1-10V, Casambi
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>75K

* Please contact P&A Technical Department for assistance

P&A SubSpace TRI

Luminaire Order Builder

SST6-WS (600mmØ - Direct)

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.	STEP 7.
Select Current	Luminous Direction	Optics	CCT	Control	Finish	Emergency
15 150mA 2211 Lm - 15.4W 20 200mA 2948 Lm - 20.7W 25 250mA 3685 Lm - 26.1W 30 300mA 4423 Lm - 31.6W	D Direct	O Opal Diffuser M Microprism UGR19	3K 3000K 4K 4000K TW 2700K - 5700K Tunable white	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: SST6WSD3004KA1WE3

SST6-WS (600mmØ - Direct/Indirect)

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.	STEP 7.
Select Current	Luminous Direction	Optics	CCT	Control	Finish	Emergency
15 150mA 3317 Lm - 23.1W 20 200mA 4423 Lm - 31.1W 25 250mA 5529 Lm - 39.2W 30 300mA 6635 Lm - 47.4W	DI Direct/Indirect	O Opal Diffuser M Microprism UGR19	3K 3000K 4K 4000K TW 2700K - 5700K Tunable white	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: SST6WSDI3004KA1WE3



P&A SubSpace TRI

Luminaire Order Builder

SST9-WS (900mmØ - Direct)

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.	STEP 7.
Select Current	Luminous Direction	Optics	CCT	Control	Finish	Emergency
15 150mA 3317 Lm - 23.1W	D Direct	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 4423 Lm - 31.1W						
25 250mA 5529 Lm - 36.5W						
30 300mA 6635 Lm - 47.4W						
		M Microprism UGR<19	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
			TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
				A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
				A4 1-10v		
				A5 Casambi		

All electrical and optical data subject to ± 10% tolerances.
 Values based on 4000K Colour temperature.

Example Code: SST9WSD3004KA1WE3

SST9-WS (900mmØ - Direct/Indirect)

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.	STEP 7.
Select Current	Luminous Direction	Optics	CCT	Control	Finish	Emergency
15 150mA 5529 Lm - 38.5W	DI Direct/Indirect	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 7372 Lm - 51.8W						
25 250mA 9214 Lm - 65.3W						
30 300mA 11057 Lm - 79W						
		M Microprism UGR<19	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
			TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
				A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
				A4 1-10v		
				A5 Casambi		

All electrical and optical data subject to ± 10% tolerances.
 Values based on 4000K Colour temperature.

Example Code: SST9WSDI3004KA1WE3



P&A SubSpace TRI

Luminaire Order Builder

SST12-WS (1200mmØ - Direct)

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.	STEP 7.
Select Current	Luminous Direction	Optics	CCT	Control	Finish	Emergency
15 150mA 4423 Lm - 30.8W	D Direct	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 5897 Lm - 41.4W						
25 250mA 7371 Lm - 52.2W		TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test	
30 300mA 8845 Lm - 63.2W						A3 Switch Dim
				A4 1-10v		
				A5 Casambi		

All electrical and optical data subject to ± 10% tolerances.
Values based on 4000K Colour temperature.

Example Code: SST12WSD3004KA1WE3

SST12-WS (1200mmØ - Direct/Indirect)

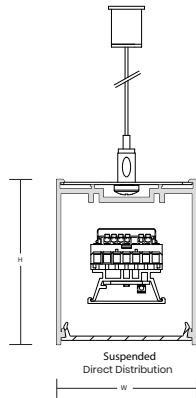
STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.	STEP 7.
Select Current	Luminous Direction	Optics	CCT	Control	Finish	Emergency
15 150mA 7740 Lm - 53.9W	DI Direct/Indirect	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 10320 Lm - 72.5W						
25 250mA 12900 Lm - 91.4W		TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test	
30 300mA 15480 Lm - 110.6W						A3 Switch Dim
				A4 1-10v		
				A5 Casambi		

All electrical and optical data subject to ± 10% tolerances.
Values based on 4000K Colour temperature.

Example Code: SST12WSDI3004KA1WE3



P&A SubSpace TRI



Dimensions

D Ø	W	H	Finish	RAL	Code	Colour Swatch
600	50	85	White	9016M		
900	50	85	Black	9005		
1200	50	85	Silver	9006		
			Custom*	Custom*		

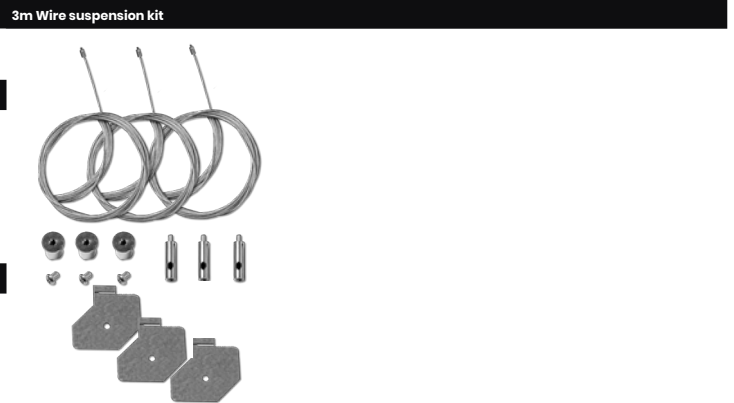
All dimensions are measured in millimetres (mm).

*Custom Colours upon request.

Ancillaries

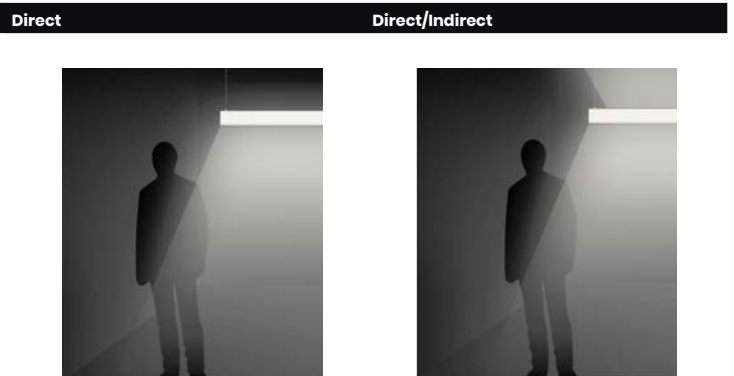
Wire Suspensions	Code
3m Wire suspension kit	SS50-WS-3M
Custom length (1m increments)	SS50-WS-ZM
Clear 0.75mm ² , Supply Cable	
3 core, Clear, 3m	FL-3C-C-3M
3 core, Clear, Custom Length*	FL-3C-C-ZM
5 core, Clear, 3m	FL-5C-C-3M
5 core, Clear, Custom Length*	FL-5C-C-ZM
6 core, Clear, 3m	FL-6C-C-3M
6 core, Clear, Custom Length*	FL-6C-C-ZM
Black 0.75mm ² , Supply Cable	
3 core, Black, 3m	FL-3C-B-3M
3 core, Black, Custom Length*	FL-3C-B-ZM
5 core, Black, 3m	FL-5C-B-3M
5 core, Black, Custom Length*	FL-5C-B-ZM
6 core, Black, 3m	FL-6C-B-3M
6 core, Black, Custom Length*	FL-6C-B-ZM

Ancillaries images



White 0.75mm ² , Supply Cable	Code
3 core, White, 3m	FL-3C-W-3M
3 core, White, Custom Length*	FL-3C-W-ZM
5 core, White, 3m	FL-5C-W-3M
5 core, White, Custom Length*	FL-5C-W-ZM
6 core, White, 3m	FL-6C-W-3M
6 core, White, Custom Length*	FL-6C-W-ZM

Distribution Types



*Please replace Z with required cut meter length.
**Please replace Z with required Custom RAL Colour.

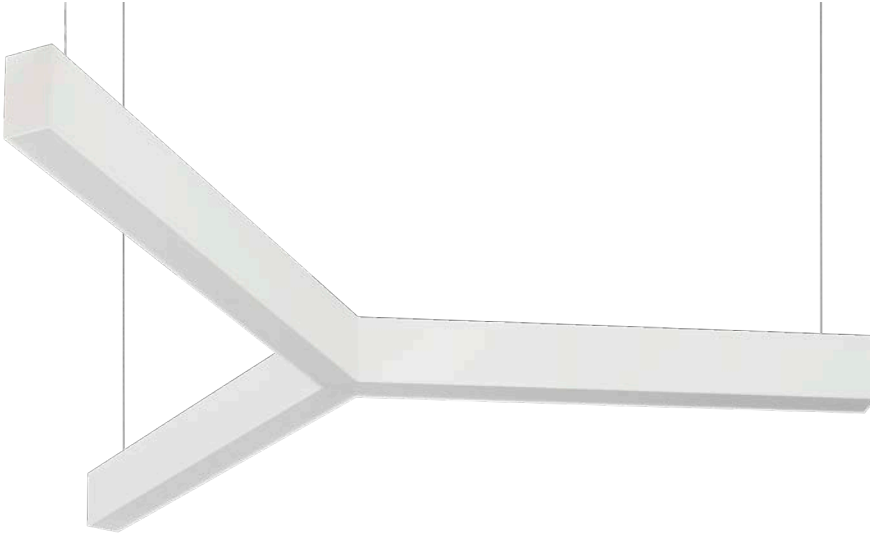
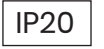


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CE BS EN60598-1:2015
ISO 9001 Certification

MADE IN BRITAIN

Datasheet Code: PA-SST



SubSpace Y

Suspended

Subspace Y is a wire suspended Y-shaped luminaire, designed to make an architectural statement within any space. This 50x85mm profile, can be supplied in variety of outputs, optics and colour finishes. Available in sizes of 600mm, 900mm and 1200mm as standard, with direct or direct/indirect distribution.

- Efficacy of up to 144 lm/W.
- LG7 Complaint, UGR<19 (when used with microprism diffuser).
- Colour temperatures: 3000°k, 4000°k or Tunable White (2700°k - 5700°k).
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v, DALI 10-100% Dim.
- Wireless control options: Casambi.
- Luminaire supplied complete with 3m adjustable wire suspensions and 3m clear supply flex as standard.
- Custom length wire suspension, Clear, Black or White flex are also available.
- Emergency options: Standard 3hr, Self-Test or Dali addressable, 3hr Dali Wireless Sentinel.
- Integrated PIR available upon request*.

Technical

Product	SubSpace Y
Mounting type	Suspended
Standard Diameters	600-1200mm
Custom Diameters	140mm increments
Lumens	1106 - 8846 Lm
Efficacy	Up to 144 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K) Tunable White (2.7K >5.7K)
Optics	Opal diffuser Microprism (UGR<19)
Control	DALI 1-100% , DSI, 1-10V, Casambi
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>75K

* Please contact P&A Technical Department for assistance

P&A SubSpace Y

Luminaire Order Builder

SSY6-WS (600mmØ - Direct)

STEP 1. Select Current	STEP 2. Luminous Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
15 150mA 1106 Lm - 7.7W	D Direct	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 1475 Lm - 10.4W		M Microprism UGR<19	4K 4000K	A1 DALI	B RAL9005	ED DALI/EMPRO
25 250mA 1844 Lm - 13.1W			TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
30 300mA 2212 Lm - 15.8W				A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
35 350mA 2581 Lm - 18.6W				A4 1-10v		
40 400mA 2950 Lm - 21.5W				A5 Casambi		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: SSY6WSD3004KA1WE3

SSY6-WS (600mmØ - Direct/Indirect)

STEP 1. Select Current	STEP 2. Luminous Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
15 150mA 1659 Lm - 11.6W	DI Direct/Indirect	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 2212 Lm - 15.6W		M Microprism UGR<19	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
25 250mA 2765 Lm - 19.6W			TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
30 300mA 3318 Lm - 23.7W				A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
35 350mA 3871 Lm - 27.9W				A4 1-10v		
40 400mA 4425 Lm - 32.1W				A5 Casambi		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: SSY6WSDI3004KA1WE3



P&A SubSpace Y

Luminaire Order Builder

SSY9-WS (900mmØ - Direct)

STEP 1. Select Current	STEP 2. Luminous Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
15 150mA 1659 Lm - 11.6W 20 200mA 2212 Lm - 15.6W 25 250mA 2765 Lm - 19.6W 30 300mA 3318 Lm - 23.7W 35 350mA 3871 Lm - 27.9W 40 400mA 4425 Lm - 32.1W	D Direct	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K TW 2700K - 5700K Tunable white	FO Fixed Output A1 DALI A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ± 10% tolerances.
Values based on 4000K Colour temperature.

Example Code: SSY9WSD3004KAIWE3

SSY9- WS (900mmØ - Direct/Indirect)

STEP 1. Select Current	STEP 2. Luminous Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
15 150mA 2765 Lm - 19.3W 20 200mA 3687 Lm - 25.9W 25 250mA 4609 Lm - 32.7W 30 300mA 5531 Lm - 39.6W 35 350mA 6452 Lm - 46.5W 40 400mA 7374 Lm - 53.6W	DI Direct/Indirect	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K TW 2700K - 5700K Tunable white	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ± 10% tolerances.
Values based on 4000K Colour temperature.

Example Code: SSY9WSDI3004KAIWE3



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ISO 9001 Certification

MADE IN BRITAIN

Datasheet Code: PA-SSY

P&A SubSpace Y

Luminaire Order Builder

SSY12-WS (1200mmØ - Direct)

STEP 1. Select Current	STEP 2. Luminous Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
15 150mA 2211 Lm - 15.4W	D Direct	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 2948 Lm - 20.7W						
25 250mA 3685 Lm - 26.1W						
30 300mA 4423 Lm - 31.6W						
35 350mA 5160 Lm - 37.1W						
40 400mA 5897 Lm - 42.8W						
		M Microprism UGR<19	4K 4000K	A1 DALI	B RAL9005	ED DALI/EMPRO
			TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
				A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
				A4 1-10v		
				A5 Casambi		

All electrical and optical data subject to ± 10% tolerances.
Values based on 4000K Colour temperature.

Example Code: SSY12WSD3004KA1WE3

SSY12- WS (1200mmØ - Direct/Indirect)

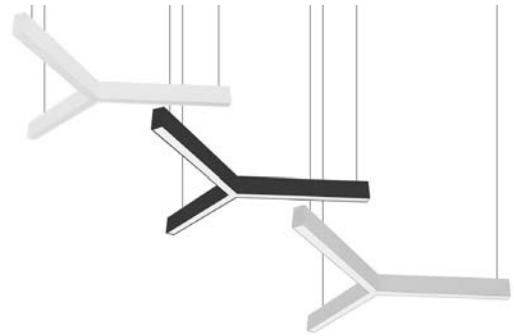
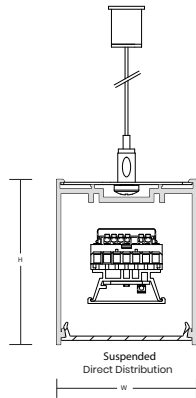
STEP 1. Select Current	STEP 2. Luminous Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
15 150mA 3317 Lm - 23.1W	DI Direct/Indirect	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
20 200mA 4423 Lm - 31.1W						
25 250mA 5529 Lm - 39.2W						
30 300mA 6635 Lm - 47.4W						
35 350mA 7741 Lm - 55.8W						
40 400mA 8846 Lm - 64.3W						
		M Microprism UGR<19	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
			TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
				A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
				A4 1-10v		
				A5 Casambi		

All electrical and optical data subject to ± 10% tolerances.
Values based on 4000K Colour temperature.

Example Code: SSY12WSDI3004KA1WE3



P&A SubSpace Y



Dimensions

D Ø	W	H	Finish	Code	Colour Swatch
600	50	85	White	9016M	
900	50	85	Black	9005	
1200	50	85	Silver	9006	
Custom*	50	85	Custom*	Custom*	

All dimensions are measured in millimetres (mm)
*Custom lengths upon request.

*Custom Colours upon request.

Ancillaries

Wire Suspensions	Code	Ancillaries images
3m Wire suspension kit	SS50-WS-3M	
Custom length (1m increments)	SS50-WS-ZM	
Clear 0.75mm², Supply Cable		
3 core, Clear, 3m	FL-3C-C-3M	
3 core, Clear, Custom Length*	FL-3C-C-ZM	
5 core, Clear, 3m	FL-5C-C-3M	
5 core, Clear, Custom Length*	FL-5C-C-ZM	
6 core, Clear, 3m	FL-6C-C-3M	
6 core, Clear, Custom Length*	FL-6C-C-ZM	
Black 0.75mm², Supply Cable		
3 core, Black, 3m	FL-3C-B-3M	
3 core, Black, Custom Length*	FL-3C-B-ZM	
5 core, Black, 3m	FL-5C-B-3M	
5 core, Black, Custom Length*	FL-5C-B-ZM	
6 core, Black, 3m	FL-6C-B-3M	
6 core, Black, Custom Length*	FL-6C-B-ZM	
White 0.75mm², Supply Cable		
3 core, White, 3m	FL-3C-W-3M	
3 core, White, Custom Length*	FL-3C-W-ZM	
5 core, White, 3m	FL-5C-W-3M	
5 core, White, Custom Length*	FL-5C-W-ZM	
6 core, White, 3m	FL-6C-W-3M	
6 core, White, Custom Length*	FL-6C-W-ZM	

*Please replace Z with required cut meter length.

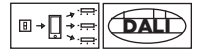
**Please replace Z with required Custom RAL Colour.





3K 4K 2.7-5.7K

IP20



BH3

Surface

BH3 is a sleek wall mounted bed head luminaire, designed for healthcare faculties, with no visible fixings, where dust and dirt can build up, providing a smooth easy to clean surface. Supplied as Direct/indirect as standard.

- Efficacy of up to 114 lm/W.
- Colour temperatures: 3000°k, 4000°k or Tunable White (2700°K - 5700°K).
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100%*.
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3Hr Dali Wireless Sentinel.
- Maximum combined milliamp must not exceed 850mA total.

Technical

Product	BH3
Mounting type	Surface
Standard Length	600mm
Lumen	925 - 5200 Lm**
Efficacy	Upto 114 lm/W
Colour Temperature	Warm White (3K)
	Neutral White (4K)
	Tunable white (2.7K-5.7K)
Optics	Microprism + Opal diffuser (Direct/Indirect)
Control	DALI 1-100%, Casambi,
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K
Weight	3.7kg

* 1 x DALI Dual channel driver fitted as standard

** Individual lumens figures, Combined figures must not exceed 6000 lumens.

P&A BH3

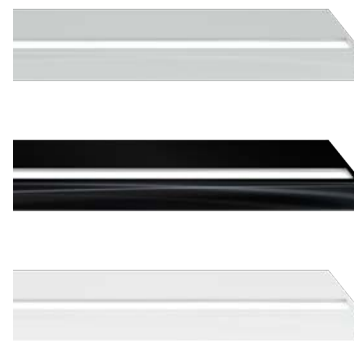
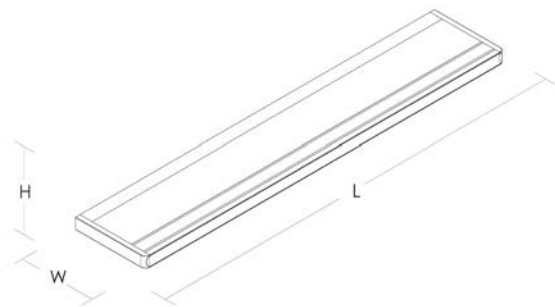
Luminaire Order Builder

BH3

STEP 1. Select Direct Current	STEP 2. Select Indirect Current	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
D15 150mA 925 Lm Downlight Microprism Diffuser 8W D20 200mA 1233 Lm Downlight Microprism Diffuser 11W D30 300mA 1849 Lm Downlight Microprism Diffuser 16.5W D40 400mA 2466 Lm Downlight Microprism Diffuser 22W D50 500mA 3082 Lm Downlight Microprism Diffuser 27W D60 600mA 3699 Lm Downlight Microprism Diffuser 33W D70 700mA 4315 Lm Downlight Microprism Diffuser 38W	U15 150mA 1128 Lm Uplight Opal Diffuser 8W U20 200mA 1504 Lm Uplight Opal Diffuser 11W U30 300mA 2255 Lm Uplight Opal Diffuser 16.5W U40 400mA 3007 Lm Uplight Opal Diffuser 22W U50 500mA 3759 Lm Uplight Opal Diffuser 27W U60 600mA 4511 Lm Uplight Opal Diffuser 33W U70 700mA 5200 Lm Uplight Opal Diffuser 38W	3K 3000K 4K 4000K TW 2700K - 5700K Tunable white	A1 DALI 1-100% Dim Dual channel driver A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
 Values based on 4000K Colour temperature.
 Combined mA cannot exceed 850mA total.
 6000 Lumens maximum based on combined mA settings.
 Wattage figures above do not include driver losses.

Example Code: BH3D50U354KA1WE3



Dimensions

L	W	H
600	221	38

All dimensions are measured in millimetres (mm)

Finish

RAL	Code	Colour Swatch
White	9016	
Black	9005	
Silver	9006	
Custom*	Custom*	

*Custom Colours upon request



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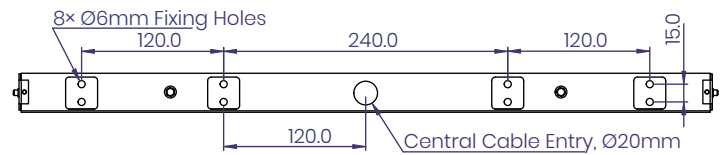
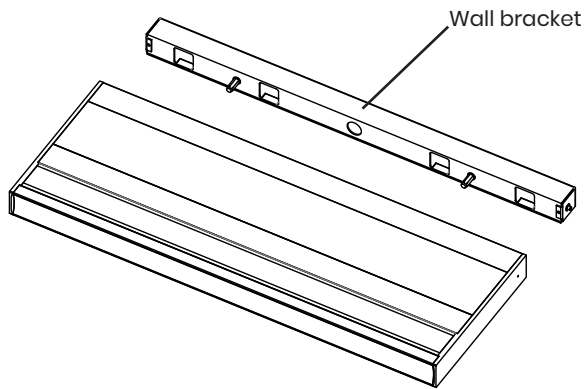
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P&A BH3

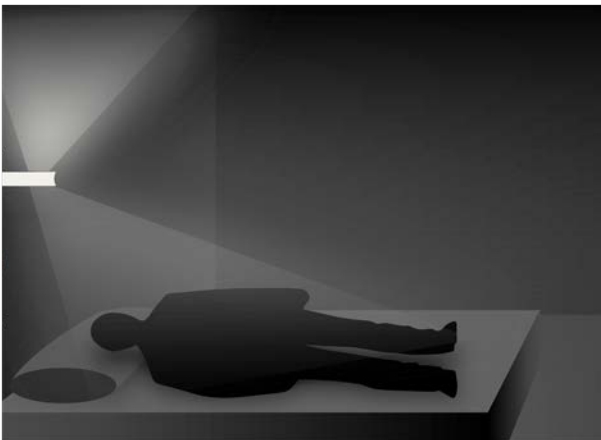
Wall Bracket

Fixing details



Distribution Type

Direct/Indirect



IP20 IP20
Protection of fingers against
access to hazardous parts, and
protection against objects larger
than 12.5mm



Safety Class
Class I Safety chassis is
connected to earth with a
separate terminal, instead of via
the mains cable



Warranty
5 year Guarantee

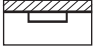


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Datasheet Code: PA-10551-0

UK CA CE BS EN60598-1:2015
ISO 9001 Certification

MADE IN
BRITAIN



CLD

Surface

CLD is a surface mounted architectural luminaire with drop dish diffuser, manufactured from spun aluminium, 300mm diameter as standard. Available in a range of outputs to suit your needs.

- Efficacy of up to 96 lm/W.
- Colour temperatures: 3000°k and 4000°k as standard.
- Colour Finishes: White (9016) or Black (9005) as standard. Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3Hr Dali Wireless Sentinel.

Technical

Product	CLD
Mounting type	Surface
Diameter	300mm
Lumens	1409 -1971 lm
Efficacy	Upto 96 Lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal diffuser
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output
Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

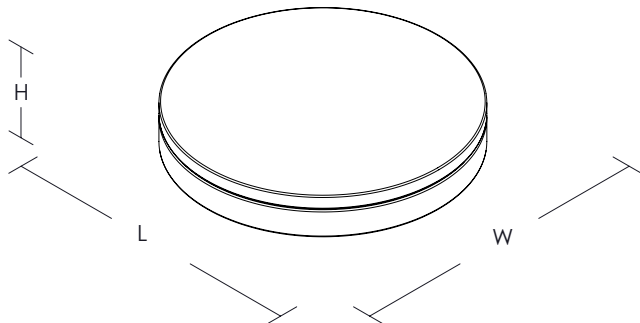
Luminaire Order Builder

CLD3 (310mmØ)

STEP 1. Select Current	STEP 2. CCT	STEP 3. Control	STEP 4. Finish	STEP 5. Options	STEP 6. Emergency
50 500mA 1409Lm- 14.6W	3K 3000K	FO Fixed Output	W RAL9016M	MW Internal Microwave sensor	E3 Standard 3 Hour
55 550mA 1549Lm- 16.1W	4K 4000K	A1 DALI 1-100% Dim	B RAL9005		ED DALI/EMPRO
60 600mA 1732Lm- 17.8W		A2 DSI	Z Custom		ES Self-Test
65 650mA 1830Lm- 19W		A3 Switch Dim			EW 3 hour DALI Wireless Sentinel
70 700mA 1971Lm- 20.6W		A4 1-10v			
		A5 Casambi			

All electrical and optical data subject to ±10% tolerances. Values based on 4000K Colour temperature.

Example Code: CLD3-50-4K-A1-W



Dimensions

DØ	H
310	77

Finish

RAL	Code	Colour Swatch
White	9016M	
Black	9005	
Custom*	Custom*	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request



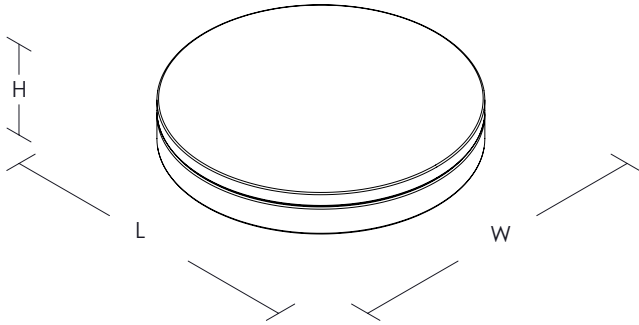
IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class I Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee



Dimensions

DØ	H
310	77
610	77

Finish

RAL	Code	Colour Swatch
White	9016M	
Black	9005	
Custom*	Custom*	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request

IP20
IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class 1 Safety, chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee



3K

4K

IP20



EM3

CLDL

Surface

CLDL is a high performance surface mounted polycarbonate luminaire with lockable hinged cover for easy maintenance. Suitable for a range of applications, including offices, healthcare and schools. Supplied in a variety of outputs to suit your needs.

- Efficacy of up to 142 lm/W.
- Colour temperatures: 3000°k, 4000°k.
- Colour Finishes: White as standard.
- Maintenance: Hinged front cover.
- Rear or side cable entry.
- Dimming options: DALI 1-100% Dim
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3Hr Dali Wireless Sentinel.

Technical

Product	CLDL
Mounting type	Surface
Standard Lengths	1500mm
Lumen	3562 - 6196 Lm
Efficacy	Upto 142 Lm
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal diffuser
Control	DALI 1-100%, Casambi, Fixed output,
Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

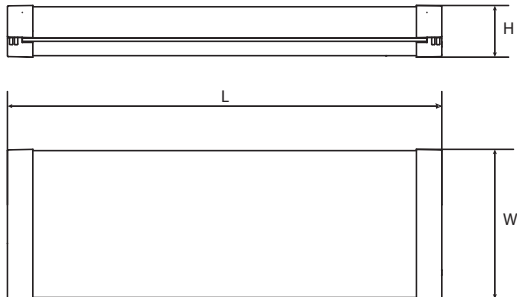
Luminaire Order Builder

CLDL

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 6.	STEP 8.
Select Current	Optics	CCT	Control	Finish	Emergency
20 200mA 3563 Lm - 26W 25 250mA 4450 Lm - 32W 30 300mA 5329 Lm - 38W 35 350mA 6196 Lm - 44W	O Opal Diffuser	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A5 Casambi	W White	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: CLDL3504KA1WE3



Dimensions

L	W	H	RAL	Code	Colour Switch
1500	207	71	White	White	

All dimensions are measured in millimetres (mm)

Finish

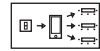




3K

4K

IP20



EM3

CRV

Wall mounted

CRV is a sleek linear wall mounted architectural luminaire, Its stylish minimalist form with curved edges, provides the perfect balance of form and function for transitional spaces, Supplied as standard with direct/indirect distribution, with a variety of outputs to suit your needs.

- Efficacy of up to 123 lm/W.
- Colour temperatures: 3000°K, 4000°K.
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3Hr Dali Wireless Sentinel.

Technical

Product	CRV
Mounting type	Wall mounted
Lengths	362mm
	642mm
	922mm
Lumens	1585 - 6790Lm
Efficacy	Up to 123 lm/W
Colour Temperature	Warm White (3K)
	Neutral White (4K)
Optics	Opal diffuser
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output
Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

Luminaire Order Builder

CRV3 (362 x 46mm)

STEP 1. Select Current	STEP 2. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
35 350mA 1584 Lm -12.8W 40 400mA 1811 Lm -14.7W	O Opal Diffuser	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: CRV33504KAIWE3

CRV6 (642 x 46mm)

STEP 1. Select Current	STEP 2. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
35 350mA 3168 Lm -25.5W 40 400mA 3620 Lm -29W	O Opal Diffuser	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: CRV63504KAIWE3

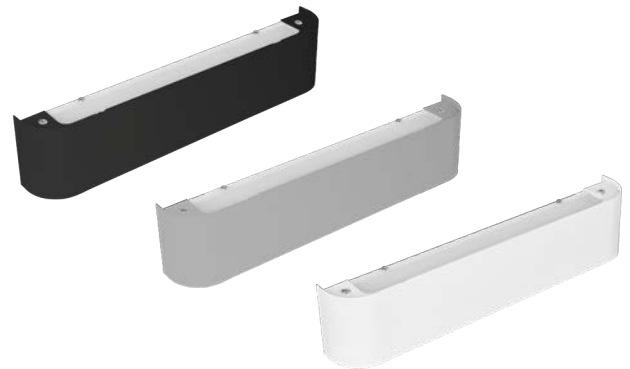
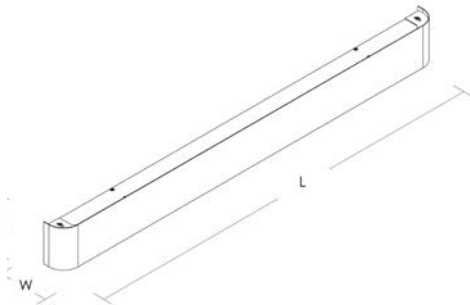
Luminaire Order Builder

CRV9 (922 x 46mm version)

STEP 1.	STEP 2.	STEP 4.	STEP 5.	STEP 6.	STEP 7.
Select Current	Optics	CCT	Control	Finish	Emergency
35 350mA 4753 Lm - 38.4W 40 400mA 5432 Lm - 43.9W 45 450mA 6111 Lm - 49.4W 50 500mA 6790 Lm - 54.9W	O Opal Diffuser	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances. Values based on 4000K Colour temperature.

Example Code: CRV9-35-O-4K-A1-W-E3



Dimensions

L	W	H	Finish	RAL	Code	Colour Swatch
362	45	90	White		9016	
642	46	90	Black		9005	
922	46	90	Silver		9006	
			Custom*		Custom*	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request



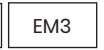
IP20
 Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
 Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
 5 year Guarantee



Moon

Surface/ Wall Mounted

Moon is a decorative circular bulkhead luminaire with polycarbonate diffuser, manufactured from spun aluminium, in a 425mm diameter. Available in a range of outputs to suit your needs.

- Efficacy of up to 109 lm/w.
- Colour temperatures: 3000°k and 4000°k as standard.
- Optics: Opal TP(a) Polycarbonate diffuser as standard.
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Special Colour Finishes: Anodised Chrome or Anodised Brass available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3Hr Dali Wireless Sentinel.

Technical

Product	Moon
Mounting type	Surface/Wall Mounted
Diameters	425mm
Lumens	2241 - 3362 lm
Efficacy	Upto 109 lm/w
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal diffuser TP(a)
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output
Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

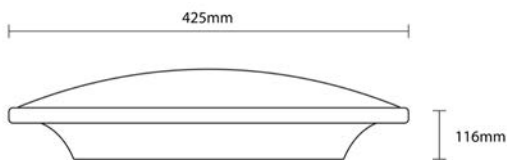
Luminaire Order Builder

Moon

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.
Select Current	Optic	CCT	Control	Finish	Emergency
60 600mA 2241lm- 20.5W	O Opal Diffuser TP(a)	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
90 900mA 3362lm- 30.7W		4K 4000K	A1 DALI 1-100% Dim	B RAL9005	
			A2 DSI	S RAL 9006	ES Self-Test
			A3 Switch Dim	AC Anodised Chrome	EW 3 hour DALI Wireless Sentinel
			A4 1-10v	AB Anodised Brass	
			A5 Casambi	Z Custom	

All electrical and optical data subject to ± 10% tolerances. Values based on 4000K Colour temperature.

Example Code: Moon-60-O-4K-A1-W



Dimensions

DØ	H
425	116

All dimensions are measured in millimetres (mm)

Finish

RAL	Code	Colour Swatch
White	9016M	
Silver	9006	
Anodised Chrome	AC	
Anodised Brass	AB	
Custom*	Custom*	

*Custom Colours upon request





3K

4K

IP20



EM3

Muro

Wall Mounted

Muro is a contemporary stylish wall mounted luminaire, Ideal for any modern offices transitional spaces. Available in three sizes and variety of outputs to suit your needs.

- Efficacy of up to 88.9 lm/W.
- Colour temperatures: 3000°k and 4000°k.
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v, DALI 10-100% Dim.
- Wireless control options: Casambi.
- 470²mm and 320²mm version available on request.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.

Technical

Product	Muro
Mounting type	Wall Mounted
Standard Sizes	620 x 620mm
	470 x 470mm
	320 x 320mm
Lumen	up to 2508 Lm
Efficacy	Upto 88.9 lm/W
Colour Temperature	Warm White (3K)
	Neutral White (4K)
Optics	Opal diffuser
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

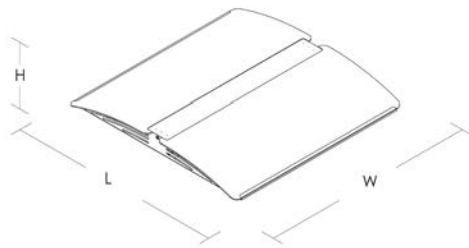
Luminaire Order Builder

Muro6

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.
Select Current	Optics	CCT	Control	Finish	Emergency
25 250mA 1598 Lm-18.7W 30 300mA 1936 Lm- 22.6W 35 350mA 2216 Lm- 26W 40 400mA 2508 Lm- 29.7W	O Opal Diffuser	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature and Fixed Output.

Example Code: MURO64004KAIWE3



Dimensions

L	W	H	Finish	Code	Colour Swatch
620	620	60	White	9016	
470	470	55	Black	9005	
320	320	50	Silver	9006	
			Custom*	Custom*	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request



Luminaire Order Builder

Muro3

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
25 250mA XXXX Lm- XXW	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
30 300mA XXXX Lm- XXW					
35 350mA XXXX Lm- XXW					
40 400mA XXXX Lm- XXW					
		4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
		TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
			A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
			A4 1-10v		
			A5 Casambi		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature and Fixed Output.

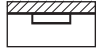
Example Code: XXX-XX-XX-O-1I-4K-A1-W-E3

Muro5

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
25 250mA XXXX Lm- XXW	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
30 300mA XXXX Lm- XXW					
35 350mA XXXX Lm- XXW					
40 400mA XXXX Lm- XXW					
		4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
		TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
			A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
			A4 1-10v		
			A5 Casambi		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature and Fixed Output.

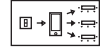
Example Code: XXX-XX-XX-O-1I-4K-A1-W-E3



3K

4K

IP65



EM3



PAS65

Surface

PAS65 is a robust moisture and dust resistant batten luminaire. IP65 rated, suitable for industrial damp and dusty environments, an ideal replacement for conventional florescent lamps, where access for maintenance is difficult due to access issues.

- Efficacy of up to 159.7 lm/w.
- Colour temperatures: 3000°k, 4000°k.
- Colour Finishes: Silver Grey as standard.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3Hr Dali Wireless Sentinel.
- Remote PIR available upon request*.

Technical

Product	PAS65
Mounting type	Surface
Standard Lengths	600mm
	1200mm
	1500mm
Lumen	1431 - 10741 Lm
Efficacy	Up to 159.7 Lm/W
Colour Temperature	Warm White (3K)
	Neutral White (4K)
Optics	Opal diffuser
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output
Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP65
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

* Please contact P&A Technical Department for assistance

Luminaire Order Builder

PAS65-6-SW (600mm Single Width)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
25 250mA 1431 Lm -9.5W 30 300mA 1705 Lm -11.3W 35 350mA 1948 Lm -12.9W 40 400mA 2218 Lm -15W	O Opal Diffuser	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	S Silver grey	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: PAS656SW40A4KAISE3

PAS65-6-TW (600mm Twin Width)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
25 250mA 2787 Lm -17.4W 30 300mA 3308 Lm -21W 35 350mA 3756 Lm -24.15W 40 400mA 4296 Lm -28W	O Opal Diffuser	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	S Silver grey	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: PAS656TW40A4KAISE3

Luminaire Order Builder

PAS65-12-SW (1200mm Single Width)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
25 250mA 2862 Lm -19W 30 300mA 3410 Lm -22.6W 35 350mA 3897 Lm -26W 40 400mA 4437 Lm -30.1W	O Opal Diffuser	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	S Silver grey	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: PAS6512SW4004KAISE3

PAS65-12-TW (1200mm Twin Width)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
25 250mA 5574 Lm -34.9W 30 300mA 6617 Lm -42W 35 350mA 7513 Lm -48.3W 40 400mA 8593 Lm -56.1W	O Opal Diffuser	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	S Silver grey	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: PAS6512TW4004KAISE3

Luminaire Order Builder

PAS65-15-SW (1500mm Single Width)

STEP 1. Select Current	STEP 2. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
25 250mA 3578 Lm -23.7W 30 300mA 4263 Lm -28.2W 35 350mA 4871 Lm -32.5W 40 400mA 5546 Lm -37.6W	O Opal Diffuser	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	S Silver grey	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: PAS6515SW4004KAISE3

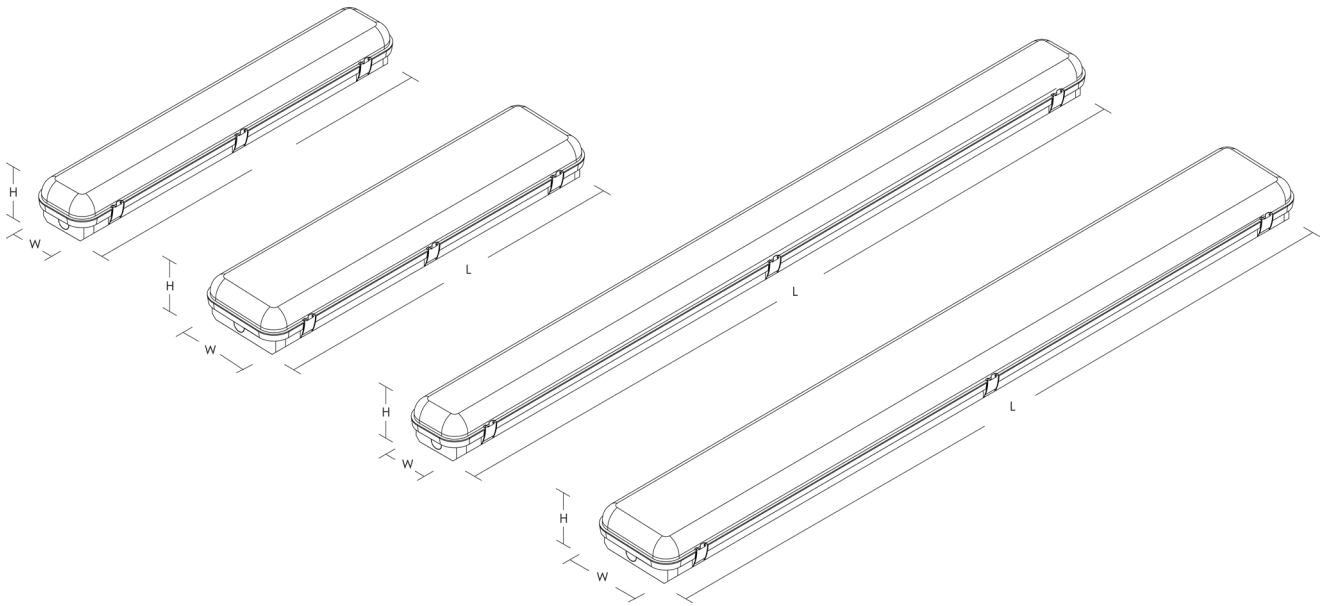
PAS65-15-TW (1500mm Twin Width)

STEP 1. Select Current	STEP 2. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
25 250mA 6969 Lm -43.6W 30 300mA 8271 Lm -52.5W 35 350mA 9391 Lm -60.4W 40 400mA 10741 Lm -70.1W	O Opal Diffuser	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	S Silver grey	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: PAS6515TW4004KAISE3

P&A PAS65



Dimensions

L	W	H
650	75	75
650*	110	75
1200	75	75
1200*	110	75
1500	75	75
1500*	110	75

All dimensions are measured in millimetres (mm)
 *Twin Width bodies



Finish

RAL	Code	Colour Swatch
Silver Grey	S	

IP65 IP65 Protection against dust (Dust tight) and water jets from any angle (2.5mm nozzle)

Safety Class Class 1 Safety chassis is connected to earth with a separate terminal, instead of via the mains cable

5 Year Guarantee **Warranty** 5 year Guarantee

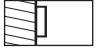


Crown House, Plantation Rd, Burscough, Lancashire, L40 8JT
 01704 891333
 sales@pandaprojects.co.uk
 www.pandaprojects.co.uk

CE BS EN60598-1:2015
 ISO 9001 Certification

MADE IN BRITAIN

Datasheet Code: PA-10522-1



3K 4K

IP65

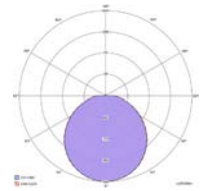


SLR

Wall Mounted

SLR is a IP65, IK10 circular bulkhead luminaire with a TP(a) polycarbonate diffuser with subtle halo effect. Ideal for interior and exterior applications.

- Efficacy of up to 135 lm/W.
- Colour temperatures: 3000°k and 4000°k as standard.
- Optics: Opal TP(a) Polycarbonate diffuser as standard.
- Colour Finish: White as standard.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Available with subtle halo effect as standard.
- BESA mounting holes form part of the standard housing.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.



SLR-Opal

Technical

Product	SLR
Mounting type	Wall Mounted
Lumens	1486 - 2472 Lm
Efficacy	Up to 135 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal diffuser
Control	DALI 1-100%, DSI, Casambi, Bluetooth, Fixed output,
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP65
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

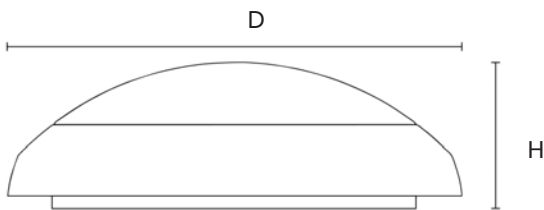
Luminaire Order Builder

SLR

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.
Select Current	Optic	CCT	Control	Finish	Emergency
35 350mA 1486Lm- 11.2W 40 400mA 1701Lm- 12.7W 45 450mA 1896Lm- 14.2W 50 500mA 2064Lm- 15.5W 55 550mA 2259Lm- 17W 60 600mA 2472Lm- 18.7W	O Opal Diffuser TP(α)	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A5 Casambi	W White	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ±10% tolerances. Values based on 4000K Colour temperature.

Example Code: SLR60O4KAIWE3



Dimensions

DØ	H	Finish	Code	Colour Swatch
380	122.5	White	W	

All dimensions are measured in millimetres (mm)



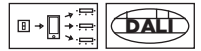
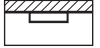
IP65
 Protection against dust and solid objects. Water jets from any angle (12.5mm nozzle)



Safety Class
 Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
 5 Year Guarantee



Space 2

Surface

Space 2 is a contemporary surface mounted luminaire with a streamlined appearance, creates a perfect finish to modern offices. Available in various optics and outputs, to suit your needs. Supplied in Direct as standard.

- Efficacy of up to 106 lm/W
- LG7 Compliant, UGR<19 when used with microprism diffuser.
- Colour temperatures: 3000°k, 4000°k.
- Colour Finishes: White (9016) as standard. Other RAL colours, available on request.
- Can be continuously mounted with infill sections
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Options: PIR sensor.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3Hr Dali Wireless Sentinel.

Technical

Product	Space 2
Mounting type	Surface
Standard Lengths	650mm
	1200mm
	1500mm
Lumen	1157 - 4338 Lm
Efficacy	Up to 106 lm/W
Colour Temperature	Warm White (3K)
	Neutral White (4K)
Optics	Opal diffuser
	Microprism (UGR<19)
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

P&A Space 2

Luminaire Order Builder

Space2-SF-6 (650mm)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Options	STEP 7. Emergency
30 300mA 1157 Lm - 11.5W	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	PIR Passive Infrared sensor	E3 Standard 3 Hour
35 350mA 1349 Lm - 13.5W	M Microprism UGR<19	4K 4000K	A1 DALI 1-100% Dim	B RAL9005		ED DALI/EMPRO
40 400mA 1542 Lm - 15.4W			A2 DSI	S RAL9006		ES Self-Test
45 450mA 1735 Lm - 17.3W			A3 Switch Dim	Z Custom		EW 3 hour DALI Wireless Sentinel
50 500mA 1919 Lm - 18W			A4 1-10v			
			A5 Casambi			

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: SPACE2SF650DM4KA1WEW

Space2-SF-12 (1200mm)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Options	STEP 7. Emergency
20 200mA 1542 Lm - 15.9W	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	PIR Passive Infrared sensor	E3 Standard 3 Hour
25 250mA 1928 Lm - 19.9W	M Microprism UGR<19	4K 4000K	A1 DALI 1-100% Dim	B RAL9005		ED DALI/EMPRO
30 300mA 2313 Lm - 23.9W			A2 DSI	S RAL9006		ES Self-Test
35 350mA 2699 Lm - 27.8W			A3 Switch Dim	Z Custom		EW 3 hour DALI Wireless Sentinel
40 400mA 3084 Lm - 31.8W			A4 1-10v			
45 450mA 3470 Lm - 35.8W			A5 Casambi			

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: SPACE2SF1220DO4KA1WE3

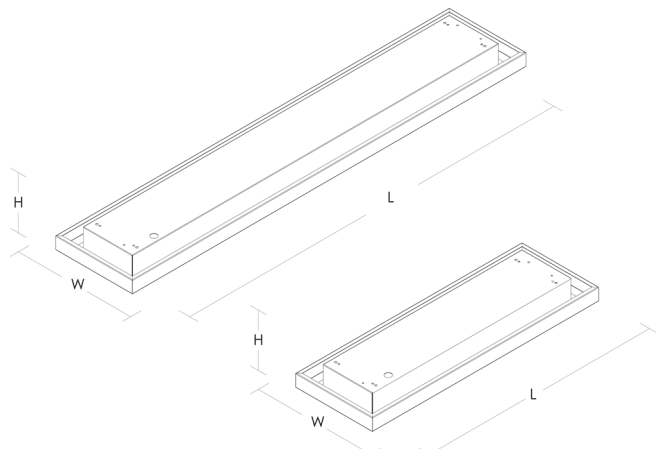
P&A Space 2

Space2-SF-15 (1500mm)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Options	STEP 7. Emergency
20 200mA 1928 Lm-19.2W	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	PIR Passive Infrared sensor	E3 Standard 3 Hour
25 250mA 2410 Lm- 24W	M Microprism UGR<19	4K 4000K	A1 DALI 1-100% Dim	B RAL9005		ED DALI/EMPRO
30 300mA 2892 Lm - 28.8W			A2 DSI	S RAL9006		ES Self-Test
35 350mA 3374 Lm - 33.6W			A3 Switch Dim	Z Custom		EW 3 hour DALI Wireless Sentinel
40 400mA 3856 Lm -38.4W			A4 1-10v			
45 450mA 4338 Lm - 43.3W			A5 Casambi			

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature.

Example Code: SPACE2SF1540DO4KA1WPIRE3



Dimensions

L	W	H	Finish	Code	Colour Swatch
650	250	65	White	9016	
1280	250	65	Black	9005	
1588	250	65	Silver	9006	
			Custom*	Custom*	

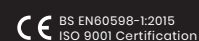
All dimensions are measured in millimetres (mm)

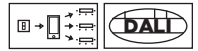
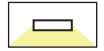
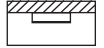
*Custom Colours upon request



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Datasheet Code: PA-10301-0





Verso

Surface

Verso is a sleek modern batten luminaire, with drop dish diffuser, suitable for a wide range of applications, including offices, hospitals and schools. Supplied in a variety of outputs to suit your needs.

- Efficacy of up to 154 lm/W.
- Colour temperatures: 3000°k, 4000°k.
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3Hr Dali Wireless Sentinel.

Technical

Product	Verso
Mounting type	Surface
Standard Lengths	1200mm 1500mm 1800mm
Lumen	2779-10774 Lm
Efficacy	Upto 154 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal diffuser
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

Luminaire Order Builder

VERSO12 (1200mm)

STEP 1. Select Current	STEP 2. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
25 250mA 2799 Lm - 18.1W 55H 550mA 6157 Lm - 39.9W	O Opal Diffuser	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: VERSO122504KAIWE3

VERSO15 (1500mm)

STEP 1. Select Current	STEP 2. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
25 250mA 3498 Lm - 22.7W 55H 550mA 7695 Lm - 49.9W	O Opal Diffuser	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: VERSO152504KAIWE3

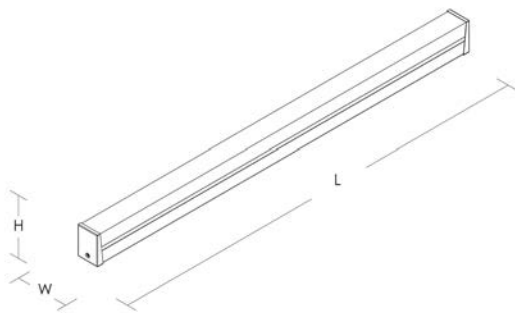
Luminaire Order Builder

VERSO18 (1800mm)

STEP 1. Select Current	STEP 2. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
25 250mA 4897 Lm - 31.7W 55H 550mA 10774 Lm - 69.8W	O Opal Diffuser	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: VERSO18-25-O-4K-A1-W-E3



Dimensions

L	W	H	Finish	Code	Colour Swatch
1150	53	74	White	9016	
1430	53	74	Black	9005	
1710	53	74	Silver	9006	
			Custom*	Custom*	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request

IP20

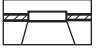
IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class 1 Safety chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee



3K

4K

2.7-6.5K

IP20



EM3

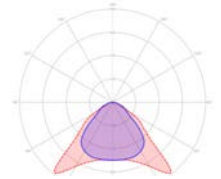


FP

Recessed

FP is an edge lit, Ultra slimline office luminaire, designed for exposed T ceiling grids. That can be direct recessed, surface or suspended. Available in module dimensions of 595 x 595mm and 1195 x 295mm.

- Efficacy of up to 144 lm/W.
- LG7 Complaint, UGR<19 PMMA microprism diffuser.
- 600x 600mm 3K & 4K TP(a) rated only. All other luminaires PMMA diffusers only.
- Colour temperatures: 3000°k, 4000°k or Tunable White (2700°k - 6500°k)*.
- Colour Finishes: White RAL9016 as standard.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim.
- Wireless control options: Casambi. In remote housing
- Supplied with remote driver.
- Supplied as recessed for exposed T ceilings as standard.
- Surface Mount kit and Wire Suspension kit available upon request.
- Fully Remote Emergency options: Standard 3hr, Self-Test or DALI addressable, 3Hr DALI Wireless Sentinel.



FP-M

Technical

Product	FP
Mounting type	Recessed
Dimensions	595 x 595mm 1195 x 295mm
Lumens	2930 - 4640 Lm
Efficacy	Up to 144 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K) Tunable White (2.7K > 6.5K)
Optics	PMMA Microprism (UGR<19)
Control	DALI 1-100%, DSI, Casambi. Fixed Output
Remote Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Rendering	Ra80
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 4
L70/B10	>50K

* Tunable White only available in 595 x 595 panel size.

Luminaire Order Builder

FP6 (TPA)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
60 600mA 3170 Lm - 23W 80 800mA 4170 Lm - 31.3W 90 900mA 4640 Lm - 35.6W	M PMMA Microprism UGR<19 Tp(α)	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A5 Casambi	W RAL9016	E3 Fully Remote Standard 3 Hour ED Fully Remote DALI/EMPRO ES Fully Remote Self-Test EW Fully Remote 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature

Example Code: FP680M4KA1W

FP6 (Tunable White)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
70 700mA 3240 Lm - 22.5W 90 800mA 4150 Lm - 29.5W 100 1000mA 4530 Lm - 33.1W	M PMMA Microprism UGR<19	TW 2700K - 6500K Tunable white	A1 DALI 1-100% Dim A3 Switch Dim A5 Casambi	W RAL9016	E3 Fully Remote Standard 3 Hour ED Fully Remote DALI/EMPRO ES Fully Remote Self-Test EW Fully Remote 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature

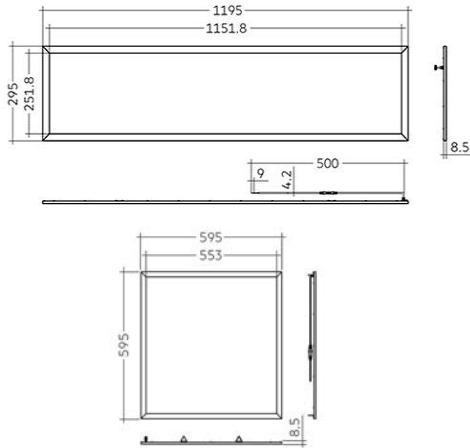
Example Code: FP690MTWA1W

FP12

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
60 600mA 3170 Lm - 23.0W 70 700mA 4170 Lm - 31.3W 90 900mA 4640 Lm - 35.6W	M PMMA Microprism UGR<19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A5 Casambi	W RAL9016	E3 Fully Remote Standard 3 Hour ED Fully Remote DALI/EMPRO ES Fully Remote Self-Test EW Fully Remote 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature

Example Code: FP1290M4KA1W



Dimensions

Dimensions			Finish		
L	W	H	RAL	Code	Colour Swatch
595	595	8.5	White	9016M	
1195	295	8.5			

All dimensions are measured in millimetres (mm)

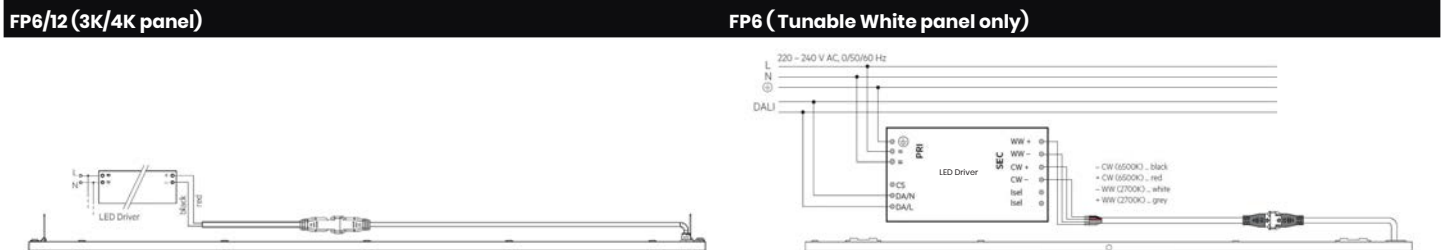
Ancillaries

Wire Suspensions		Code		Ancillaries images	
FP-600mm - 1.2m Wire suspension kit	FP6-WS-1M	FP6-1.2m Wire suspension kit	FP6 Surface Mounting Kit.		
FP-1200mm - 1.2m Wire suspension kit	FPI2-WS-1M				

Surface Mounting Kit

Surface Mounting Kit		Code		Ancillaries images	
600 Surface Mounting kit	FP6-SF-MK	FP12-1.2m Wire suspension kit	FP12 Surface Mounting Kit.		
1200 Surface Mounting Kit	FPI2-SF-MK				

Example Wiring Diagram



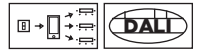
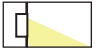
IP20
IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee



NL

Recessed

NL is a decorative, recessed accent light. Its sleek compact minimalist appearance with flush profile, screwless faceplate makes it ideal for healthcare applications.

- Efficacy of up to 92 lm/W.
- Colour temperatures: 3000°k or 4000°K.
- Colour Finish: White (9016) as standard.
- Remote driver as standard.
- Dimming option: DALI 1-100%*.
- Emergency not available

Technical

Product	NL
Mounting type	Recessed
Lumens	113 - 226 Lm
Efficacy	Upto 92 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal diffuser
Control (Remote)	DALI 1-100%, Fixed output
Emergency	Not available
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

*Drivers are fully remote and need to be located in the adjacent wall void.

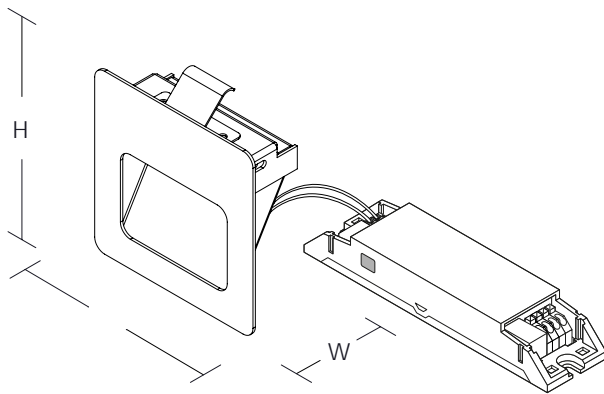
Luminaire Order Builder

NL

STEP 1.	STEP 2.	STEP 4.	STEP 5.	STEP 6.	STEP 7.
Select Current	Optics	CCT	Control	Finish	Emergency
35 350mA 113 Lm - 1.2W 40 400mA 129 Lm - 1.4W 45 450mA 145 Lm - 1.6W 50 500mA 162 Lm - 1.8W 55 550mA 178 Lm - 1.9W 60 600mA 194 Lm - 2W 65 650mA 210 Lm - 2.3W 70 700mA 226 Lm - 2.4W	O Opal Diffuser	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim	W RAL9016M	EM Not Available

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: NL5004KA1W



Dimensions

L	W	H	Finish	Code	Color
80*	30*	80*	White	9016	

All dimensions are measured in millimetres (mm)
*Not including driver

IP20

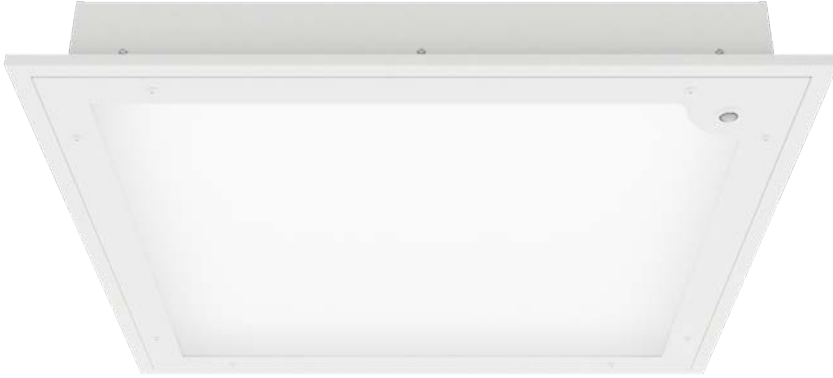
IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



5 Year
Guarantee
Warranty
5 year Guarantee

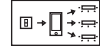


3K

4K

IP54

IP65



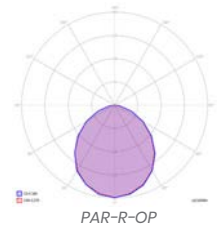
EM3

PAR-54/65

Recessed

PAR-54 and PAR-65, are sealed modular luminaires, for use in clean room or industrial environments. Sheet steel construction, with gasket sealed front frame and either opal microprism diffuser options.

- Efficacy of up to 142 lm/W.
- LG7 Complaint, UGR<19 (when used with microprism diffuser).
- Colour temperatures: 3000°k, 4000°k.
- Colour Finishes: White (9016) as standard, Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v
- Wireless control options: Casambi.
- Available with exposed "T" or spring "T" ceiling brackets, other types available on request
- Optional Integrated PIR sensor.
- Supplied with tamper proof screws.
- TX25 Torx screwdriver required for installation.*
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.



Technical

Product	PAR-54 PAR-65
Mounting type	Recessed
Lengths	600mm ² & 1200mm
Lumens	2990 - 8148lm
Efficacy	Upto 142 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal diffuser Microprism (UGR<19)
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP54 IP65
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

* Not supplied with the luminaire

P&A PAR-54/65

Luminaire Order Builder PAR-54/65-6 (595mm²)

STEP 2. Select IP rating	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Options	STEP 8. Emergency
PAR-54-6 IP54 Ingress protection	20 200mA 3852 Lm - 26.4W	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	P PIR Sensor	E3 Standard 3 Hour
PAR-65-6 IP65 Ingress protection	25 250mA 4815 Lm - 33.6W	M Microprism UGR19	4K 4000K	A1 DALI 1-100% Dim	Z Custom	ED DALI/EMPRO	ES Self-Test
	30 300mA 5821 Lm - 41W			A2 DSI			EW 3 hour DALI Wireless Sentinel
	35 350mA 6791 Lm - 47.8W			A3 Switch Dim			
				A4 1-10v			
				A5 Casambi			

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature.

Example Product Code: PAR65625O4KA1WE3

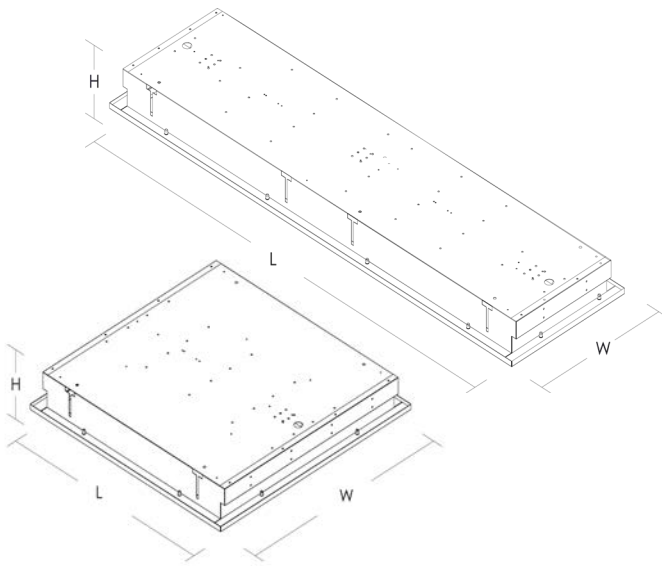
PAR-54/65-12 (1200mm x 300mm)

STEP 2. Select IP rating	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Options	STEP 8. Emergency
PAR-54-12 IP54 Ingress protection	20 200mA 5987 Lm - 32.9W	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	P PIR Sensor	E3 Standard 3 Hour
PAR-65-12 IP65 Ingress protection	25 250mA 6984 Lm - 41.1W	M Microprism UGR19	4K 4000K	A1 DALI 1-100% Dim	Z Custom	ED DALI/EMPRO	ES Self-Test
	30 300mA 8148 Lm - 57.6W			A2 DSI			EW 3 hour DALI Wireless Sentinel
				A3 Switch Dim			
				A4 1-10v			
				A5 Casambi			

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature.

Example Product Code: PAR651240O4KA1WE3

P&A PAR-54/65



Dimensions

L	W	H
595 (Front Frame)	595 (Front Frame)	90
590 (Rear Housing)	590 (Rear Housing)	90
1200 (Front Frame)	300 (Front Frame)	90
1195 (Rear Housing)	295 (Rear Housing)	90

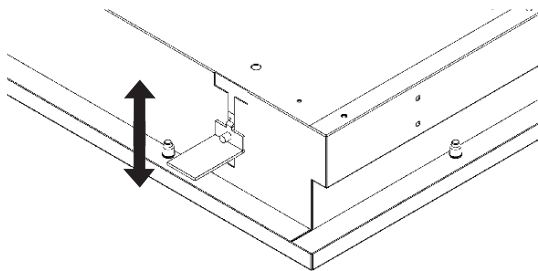
All dimensions are measured in millimetres (mm)

Finish

RAL	Code	Colour Swatch
White	9016M	
Custom	Custom	

Mounting Bracket

Adjustable mounting bracket for exposed T & plasterboard ceilings



For installation purposes, Front cover needs to be removed to adjust mounting brackets (4 in total)

Installation tools required

Torx Screwdriver*

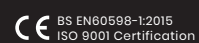


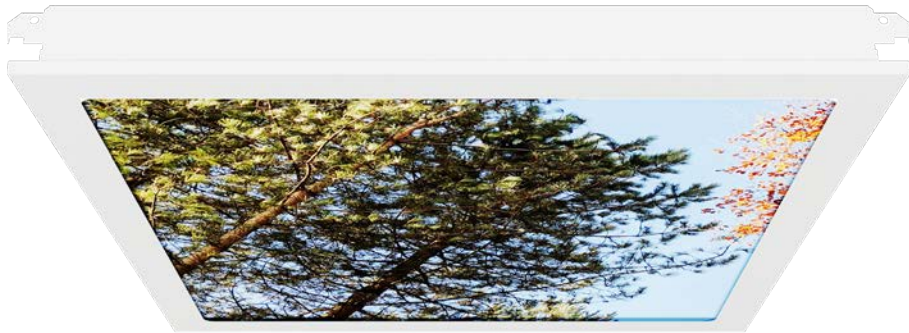
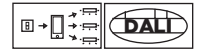
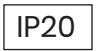
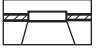
*Not supplied with the Luminaire



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Datasheet Code: PA-10255-1





Reach Q-Sky

Recessed

The Reach Q-Sky luminaire, has been designed for areas with little or no natural daylight, by creating the illusion of a skylight, helping to eliminate cave like environments. Supplied as a single unit, with various vinyl options, luminaires can be grouped to form larger skylights.

- Available in 3 standard vinyl's: Sky, SkyTree, SkyLeaf*
- Designed for 15 or 25mm exposed T ceilings as standard.
- Colour temperatures: 3000°k or 4000°k as standard.
- Colour Finishes: White (9016) as standard.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi. In remote housing
- Emergency options: Not Available

Technical

Product	Reach Q-Sky
Mounting type	Recessed
Lumens	1800 - 3000 Lm
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Sky SkyTree SkyLeaf Custom*
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed Output
Emergency	Not Available
Rendering	Ra80
IP Rating	IP40**
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

* Custom vinyl's available on request, Please contact P&A Technical Department for assistance

**IP40 for panel only, IP20 for all Remote drivers.

P&A Reach Q-Sky

Luminaire Order Builder

Reach Q-Sky

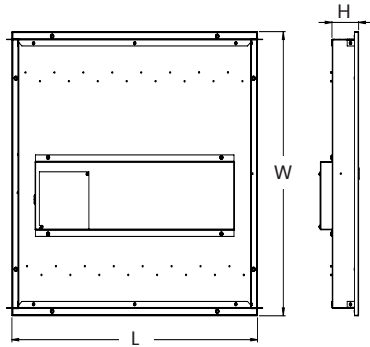
STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
30 300mA 1800 Lm - 26W	SV1 Single Luminaire Sky Vinyl	3K 3000K	FO Fixed Output	W RAL9016	- Not Available
35 350mA 2100 Lm - 30W	SV2 Twin Luminaires Sky Vinyl	4K 4000K	A1 DALI Dip Switch		
40 400mA 2400 Lm - 35W	SV3 Triple Luminaires Sky Vinyl		A5 Casambi		
45 450mA 2700 Lm - 39W	SV4 Quadruple Luminaires Sky Vinyl				
50 500mA 3000 Lm - 44W	ST1 Single Luminaire SkyTree Vinyl				
	ST2 Twin Luminaires SkyTree Vinyl				
	ST3 Triple Luminaires SkyTree Vinyl				
	ST4 Quadruple Luminaires SkyTree Vinyl				
	SL1 Single Luminaire SkyLeaf Vinyl				
	SL2 Twin Luminaires SkyLeaf Vinyl				
	SL3 Triple Luminaires SkyLeaf Vinyl				
	SL4 Quadruple Luminaires SkyLeaf Vinyl				
	Z Custom				

All electrical and optical data subject to $\pm 10\%$ tolerances.
 Values based on 4000K Colour temperature & Sky Vinyl, Lumen Outputs may vary depending on panel choice.
 Lumen outputs based on a single luminaire, For twin, triple & Quadruple luminaires please multiply this base figure.

Example Code: QSKY304KSVIFOW



P&A Reach Q-Sky



Dimensions

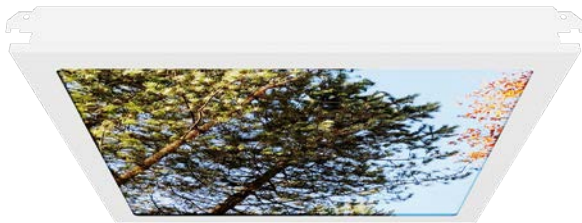
Dimensions			Finish		
L	W	H	RAL	Code	Colour Swatch
595	595	92.6*	White	9016M	

All dimensions are measured in millimetres (mm).
* Dimension Includes rear gear box.

Luminaire images/arrangements

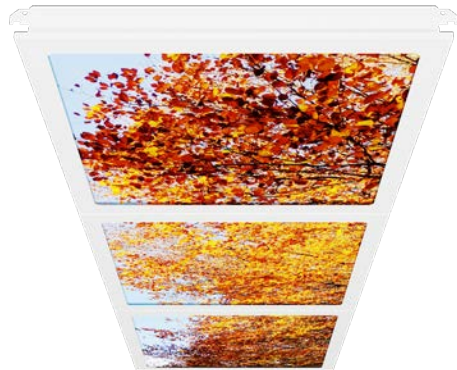
Single Luminaire

Sky vinyl example shown (SV1)



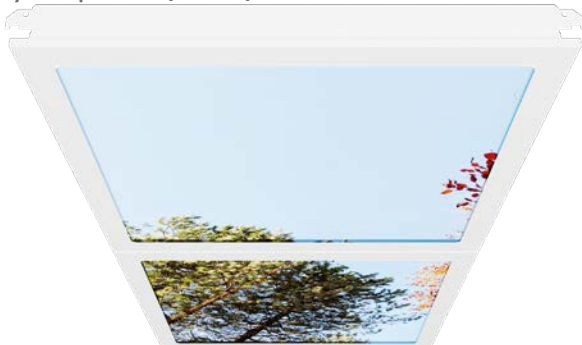
Triple Luminaire

Sky vinyl example shown (SV1 & SV2 & SV3)



Twin Luminaire

Sky vinyl example shown (SV1 & SV2)



Quadruple Luminaire

Sky vinyl example shown (SV1 & SV2 & SV3 & SV4)



IP20

IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee



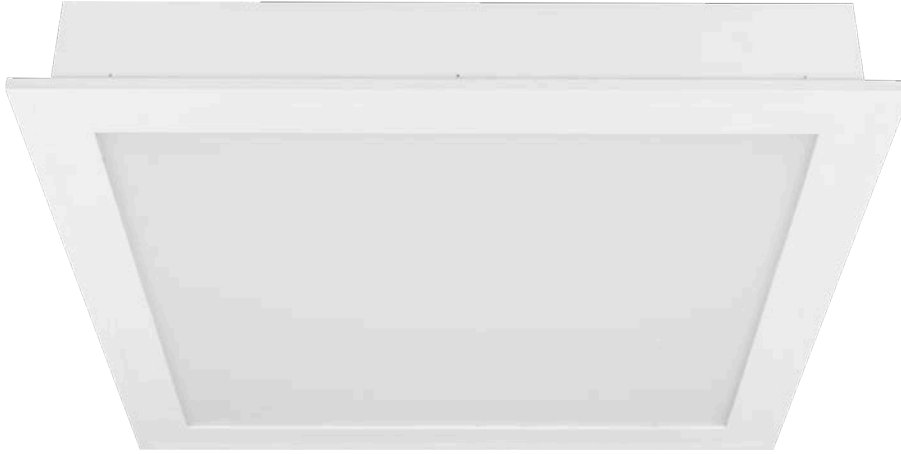
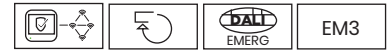
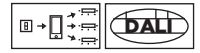
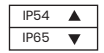
Crown House, Plantation Rd, Burscough, Lancashire, L40 8JT
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Datasheet Code: PA-10023-0

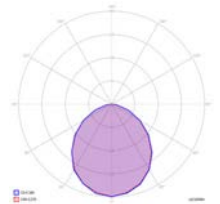


BS EN60598-1:2015
ISO 9001 Certification





ROVA IP65



ROVA-IP65-TGO

Recessed

ROVA IP65 is an heavy duty clean room luminaire designed for slab ceilings and walk on applications. Manufactured from powder coated sheet steel.

- Efficacy of up to 110 lm/W.
- For use in clean rooms up to FS209D Class 1000.
- Suitable for walk on ceilings, built to BS6399 Part 1
- IP65 from the front, IP54 from the rear.
- No visible front fixings, Maintenance access from rear.
- Toughened glass cover as standard with TPA opal or prismatic insert.
- Range of colour temperatures 3000K, 4000K.
- Colour Finishes: White (9016) as standard (Other colours available on request).
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.

Technical

Product	ROVA IP65
Mounting type	Recessed
Lengths	600 & 1200mm
Lumens	4220 -10128Lm
Efficacy	Up to 110 Lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Toughened glass with opal Toughened glass with prismatic
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed Output
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80
IP Rating	IP65 Front/IP54 rear
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

P&A ROVA IP65

Luminaire Order Builder

ROVA-IP65-6 (600mm x 600mm)

STEP 1. Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
50 500mA 4220 Lm-38.4W	TGO Toughened glass with Opal linear (TPA)	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
55 550mA 4642 Lm-42.2W	TGP Toughened glass with Prismatic linear	4K 4000K	A1 DALI 1-100% Dim	Z Custom	ED DALI/EMPRO
60 600mA 5064 Lm - 46.1W			A2 DSI		ES Self-Test
65 650mA 5486 Lm - 49.9W			A3 Switch Dim		EW 3 hour DALI Wireless Sentinel
70 700mA 5908 Lm - 53.8W			A4 1-10v		
			A5 Casambi		

All electrical and optical data subject to $\pm 10\%$ tolerances.
 Values based on 4000K Colour temperature.

Example Code: ROVAIP65635TGO3KA1WE3

ROVA-IP65-12 (1200 x 600mm)

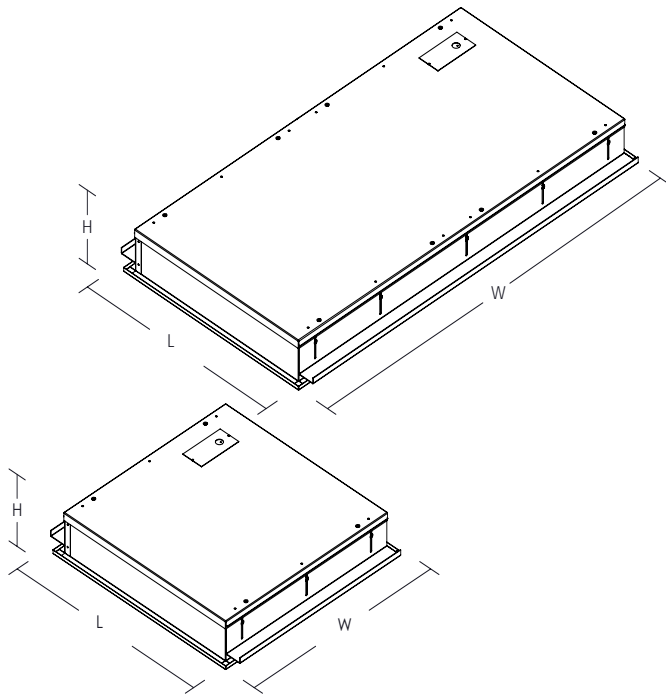
STEP 1. Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
35 350mA 5908 Lm - 53.8W	TGO Toughened glass with Opal linear (TPA)	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
40 400mA 6752 Lm -61.4W	TGP Toughened glass with Prismatic linear	4K 4000K	A1 DALI 1-100% Dim	Z Custom	ED DALI/EMPRO
45 450mA 7596 Lm - 69.1W			A2 DSI		ES Self-Test
50 500mA 8440 Lm - 76.8W			A3 Switch Dim		EW 3 hour DALI Wireless Sentinel
55 550mA 9284 Lm - 84.5W			A4 1-10v		
60 600mA 10128 Lm - 92.2W			A5 Casambi		

All electrical and optical data subject to $\pm 10\%$ tolerances.
 Values based on 4000K Colour temperature.

Example Code: ROVAIP651235TGO3KA1WE3



P&A ROVA IP65



Dimensions

L	W	H
600* (Front Frame)	600 (Front Frame)	130
540 (Rear Housing)	540 (Rear Housing)	130
1200 (Front Frame)	600 (Front Frame)	130
1140 (Rear Housing)	540 (Rear Housing)	130

All dimensions are measured in millimetres (mm)

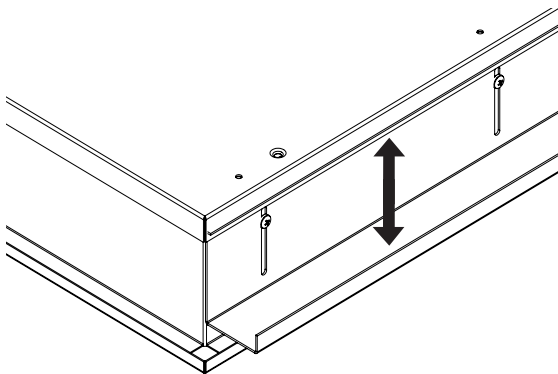
Finish

RAL	Code	Colour Swatch
White	9016M	
Custom*	Custom*	

*Custom Colours upon request

Mounting Bracket

Adjustable rear access mounting bracket



For installation purposes, rear access bracket needs to be installed after luminaire is inserted into ceiling cutout.



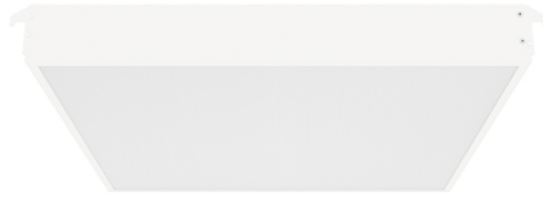
IP65/IP54
Protection against dust and water jets from any angle (2.5mm nozzle) from the front. Protection against limited dust and water spray from any angle from the rear.



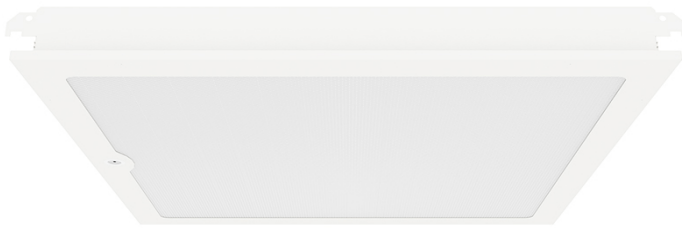
Safety Class
Class 1 Safety chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee



RQ5



RQ6



3K

4K

IP20



EM3

RQ

Recessed

RQ is a back lit, lay in luminaire range, suitable for 15 & 25mm Exposed “T” ceilings. Manufactured from powder coated sheet steel with both opal or microprism diffuser options. RQ5 (484mm²) has a minimalist design with slimline bezel, remote gear and 65mm deep housing. RQ6 (595mm²) comes with wide bezel, integral gear and integrated PIR options.

- Efficacy of up to 135 lm/W.
- LG7 Complaint, UGR<19 (when used with microprism diffuser).
- Colour temperatures: 3000°k or 4000°k.
- Colour Finishes: White (9016) as standard, Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v*.
- Wireless control options: Casambi.
- Suitable for 15mm & 25mm T ceiling as standard, other types available on request.
- RQ5 – Remote gear as standard, with wireless and emergency options available.
- Integrated PIR sensor – RQ6 product only.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel*.

Technical

Product	RQ5 RQ6
Mounting type	Recessed
Dimension	484x 484mm 595x 595mm
Lumens	2421 - 4759Lm
Efficacy	Up to 135 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal diffuser Microprism (UGR<19)
Control*	DALI 1-100%, DSI, 1-10V, Casambi, Fixed Output
Emergency*	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L90/B10	>50K

* RQ5 = Remote gear, wireless and emergency options as standard.

Luminaire Order Builder

RQ5 (484mm²) - Remote gear

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.
Current	Optics	CCT	Control	Finish	Emergency
65 650mA 2421 Lm - 21.5W	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
70 700mA 2608 Lm - 23.2W	M Microprism UGR<19	4K 4000K	A1 DALI 1-100% Dim	Z Custom	ED DALI/EMPRO
75 750mA 2794 Lm - 24.8W			A2 DSI		ES Self-Test
80 800mA 2980 Lm - 26.2W			A3 Switch Dim		EW 3 hour DALI Wireless Sentinel
			A4 1-10v		
			A5 Casambi		

All electrical and optical data subject to ±10% tolerances.
 Values based on 4000K Colour temperature and microprism diffuser.

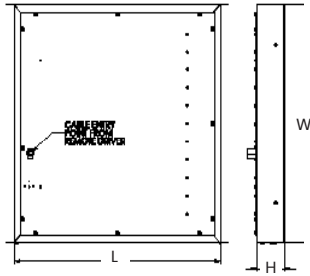
Example Code: RQ580M4KAIWE3

RQ6 (595mm²)

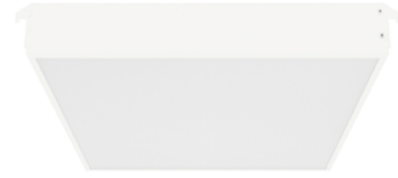
STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.	STEP 7.
Current	Optics	CCT	Control	Finish	Options	Emergency
25 250mA 2974 Lm - 22W	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	PIR PIR Sensor	E3 Standard 3 Hour
30 300mA 3569 Lm - 26.4W	M Microprism UGR<19	4K 4000K	A1 DALI 1-100% Dim	Z Custom		ED DALI/EMPRO
35 350mA 4164 Lm - 30.8W			A2 DSI			ES Self-Test
40 400mA 4759 Lm - 35.3W			A3 Switch Dim			EW 3 hour DALI Wireless Sentinel
			A4 1-10v			
			A5 Casambi			

All electrical and optical data subject to ±10% tolerances.
 Values based on 4000K Colour temperature and microprism diffuser.

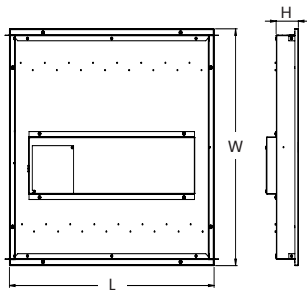
Example Code: RQ640M4KFOPIRE3



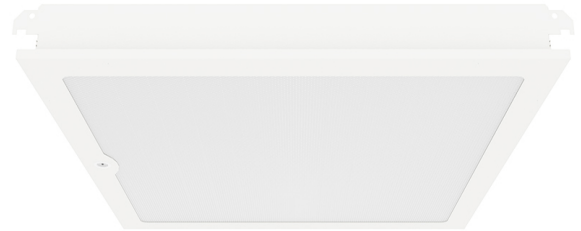
RQ5



RQ5

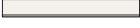



RQ6



RQ6

Dimensions

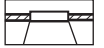
Product	Dimensions (mm)			Finish		
	L	W	H	RAL	Code	Colour Swatch
RQ5	484	484	65**	White	9016M	
RQ6	595	595	92.6*	Custom*	Custom*	

All dimensions are measured in millimetres (mm).

* Dimension includes rear gear box.

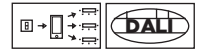
** Remete Gear not included within dimensions.





3K 4K

IP20



SAS330

Recessed

SAS330 is a lay in recessed office luminaire, designed for installation into a suspended SAS 330 ceiling.

- Efficacy of up to 120Lm/W
- LG7 Compliant, UGR<19 when used with microprism diffuser.
- Colour temperatures: 3000°k or 4000°k.
- Colour Finishes: White (9016) as standard, Other RAL colours available upon request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.

Technical

Product	SAS330
Mounting type	Recessed
Lumens	5295 Lm
Efficacy	Up to 120 Lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal diffuser Microprism (UGR<19)
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed Output
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

PA SAS330

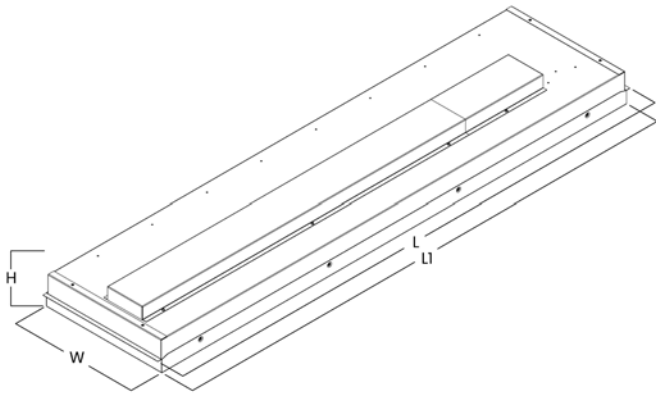
Luminaire Order Builder

SAS330

STEP 1. Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
150 1500mA 5295 Lm- 59.7W	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
 Values based on 4000K Colour temperature and Microprism diffuser.

Example Code: SAS3301504KA1WE3



Dimensions

L	LI	W	H
1212	1194**	297**	102

Finish

RAL	Code	Colour Swatch
White	9016M	
Custom*	Custom*	

All dimensions are measured in millimetres (mm)
 **Dimensions are for SAS-330 Ceiling with 3mm foam gasket

*Custom Colours upon request



IP20
 Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
 Class I Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
 5 year Guarantee

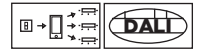


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 www.pandaprojects.co.uk

Datasheet Code: PA-10711-0

CE BS EN60598-1:2015
 ISO 9001 Certification





Ultra 1

Recessed

Ultra 1 is a contemporary office luminaire, designed for standard exposed T ceiling grids. Manufactured from powder coated sheet steel, with central, glare free microprism optic with curved, diffuse opal wings.

- Efficacy of up to 120 lm/W.
- LG7 Compliant, UGR<19.
- Range of colour temperatures 3000K, 4000K.
- Colour Finishes: White (9016) as standard (Other colours available on request).
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.

Technical

Product	Ultra 1
Mounting type	Recessed
Lumens	2673 - 4276 Lm
Efficacy	Up to 120 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics*	Microprism (UGR<19)
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed Output
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

* Central optics only change, curved opal outer wings as standard on both variants.

PA Ultra 1

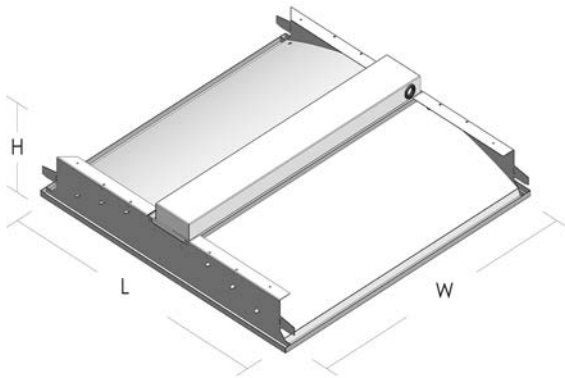
Luminaire Order Builder

ULTRA1

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.
Select Current	CCT	Control	Finish	Emergency
70 700mA 3308 Lm - 27.5W 50H 500mA 4726 Lm - 39.3W	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
 Values based on 4000K Colour temperature.

Example Code: ULTRA1704KAIWE3



Dimensions

L	W	H	Finish	Code	Colour Swatch
L	W	H	RAL	Code	Colour Swatch
595	595	110	White	9016M	
			Custom*	Custom*	

Finish

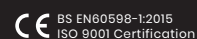
All dimensions are measured in millimetres (mm)

*Custom Colours upon request



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Datasheet Code: PA-10190-0

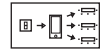




3K

4K

IP20



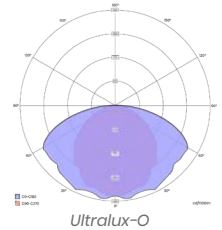
EM3

Ultralux

Recessed

Ultralux is a contemporary office luminaire, designed for exposed T ceiling grids. Manufactured from powder coated sheet steel, with central microprism or opal optics, with curved indirect wings.

- Efficacy of up to 111 lm/W
- UGR<19 diffuser*.
- Colour temperatures: 3000°k, 4000°k.
- Suitable for 15mm T ceiling as standard, other types available on request.
- Colour Finishes: White (9016) as standard (Other colours available on request).
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.



Technical

Product	Ultralux
Mounting type	Recessed
Lumens	2110 - 5822 lm
Efficacy	Up to 111 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal diffuser
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

* UGR 19 diffuser available on special request.

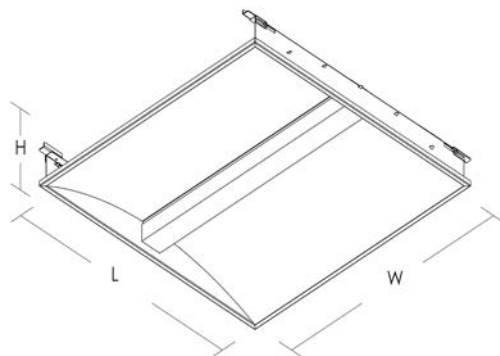
Luminaire Order Builder

Ultralux

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.
Select Current	Optic	CCT	Control	Finish	Emergency
50 500mA 3944 Lm - 32.3W	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016	E3 Standard 3 Hour
55 550mA 4339 Lm - 33.5W		4K 4000K	A1 DALI 1-100% Dim	Z Custom	ED DALI/EMPRO
60 600mA 4733 Lm - 38.7W		A2 DSI	ES Self-Test		
65 650mA 5128 Lm - 42W		A3 Switch Dim	EW 3 hour DALI Wireless Sentinel		
70 700mA 5522 Lm - 45.2W		A4 1-10v			
			A5 Casambi		

All electrical and optical data subject to $\pm 10\%$ tolerances.
 Values based on 4000K Colour temperature and Opal diffuser.

Example Code: ULTRALUX50O3KA1WE3



Dimensions

L	W	H	Finish	Code	Colour Switch
595	595	65	White	9016M	
			Custom*	Custom	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request.



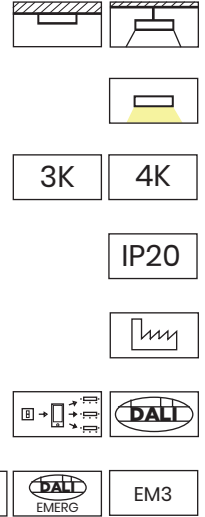
IP20
 Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
 Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
 5 Year Guarantee



Flare

Surface/Suspended

Flare is a high performance, impact resistant High/Low bay luminaire. Which is suitable for multiple applications such as Sports Halls and industrial facilities. Low glare microprism optics as standard with a variety of outputs, to suit your needs.

- Efficacy of up to 154.8 lm/W.
- Low Glare microprism optics as standard.
- Colour temperatures: 3000°k, 4000°k.
- Colour Finishes: White (9016) as standard, Other RAL colours, available on request*.
- Industry driver: Fixed output or Dali dimming, for extended service life.
- Wireless control option: Casambi.
- Pre flexed luminaires can be supplied on non standard variants, Please contact P&A for further details.
- Suitable mounting height range: 5m - 12m.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.

Technical

Product	Flare
Mounting type	Surface Suspended
Lengths	1150mm 1430mm
Lumens	8770 - 20999lm
Efficacy	Up to 154.8 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Control	DALI 1-100%, Fixed output Casambi, Industry DALI, Industry Fixed Output
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP40
Safety Class	Class 1
MacAdam	SDCM 2
L70/B10	>50K

* Please contact P&A Technical Department for assistance

P&A Flare

Luminaire Order Builder

Flare11 (1150mm)

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.
Select Current	Optics	CCT	Control	Finish	Emergency
20 200mA 8770 Lm - 57W 25 250mA 10809 Lm - 69.6W 30 300mA 13050 Lm - 84.3W 35 350mA 14989 Lm - 98.3W 40 400mA 16887 Lm - 113.5W	M Microprism	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A5 Casambi A6 Industry Fixed Output A7 Industry DALI	W RAL9016M Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
 Values based on 4000K Colour temperature and 2 Drivers.

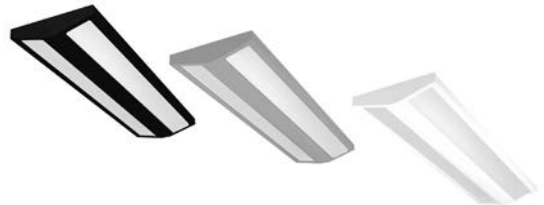
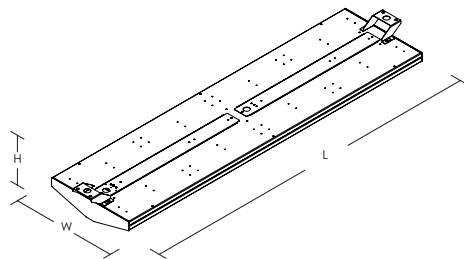
Example Code: FLARE1140M4KA7WE3

Flare14 (1430mm)

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.
Select Current	Optics	CCT	Control	Finish	Emergency
20 200mA 10905 Lm - 70.9W 25 250mA 13441 Lm - 86.5W 30 300mA 16227 Lm - 104.8W 35 350mA 18638 Lm - 122.2W 40 400mA 20999 Lm - 141.1W	M Microprism	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A5 Casambi A6 Industry Fixed Output A7 Industry DALI	W RAL9016M Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
 Values based on 4000K Colour temperature and 2 Drivers.

Example Code: FLARE1430M4KA7WE3



Dimensions

L	W	H	Finish RAL	Code	Colour Switch
1150	300	65	White	9016M	
1430	300	65	Custom*	Custom*	

All dimensions are measured in millimetres (mm)

Finish

RAL	Code	Colour Switch
White	9016M	
Custom*	Custom*	

*Custom Colours upon request



IP40
 Protection against solid objects that over 1mm.



Safety Class
 Class 1 Safety chassis is connected to earth with a separate terminal, instead of via the mains cable.

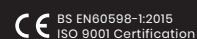


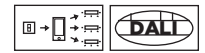
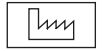
Warranty
 5 year Guarantee



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 www.pandaprojects.co.uk

Datasheet Code: PA-10398-0





Flo

Surface/Suspended

Flo is a high performance High/Low bay luminaire, which is suitable for industrial applications. Precise optics and lighting control for racking and open areas, available in a variety of outputs, to suit your needs.

- Efficacy of up to 153 lm/W.
- Colour temperatures: 3000°k, 4000°k.
- Colour Finish: Silver anodized housing as standard.
- Optics: Four options available, 90° Wide beam supplied as standard.
- Industry driver options: Fixed output or Dali dimming, for extended service life.
- Wireless control options: Casambi*.
- Pre flexed luminaires can be supplied on non standard variants, Please contact P&A for further details.
- Suitable mounting height range: 5m - 12m.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.

Technical

Product	Flo
Mounting type	Surface Suspended
Lengths	750mm 1200mm
Lumens	11855 - 23205lm
Optics	90° Wide beam 60° Medium Beam 40° Narrow Beam Batwing
Efficacy	Up to 153 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Control	Industry DALI, Industry Fixed Output, Casambi,
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP40*
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

* IP20 when used with casambi. IP40 without casambi

Luminaire Order Builder

Flo7 (750mm)

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.
Select Current	Optics	CCT	Control	Finish	Emergency
50 500mA 11510 Lm - 75W 70H 700mA 16115 Lm - 106W	90 90° Wide beam 60 60° Medium beam 40 40° High Racking beam BW Batwing beam	3K 3000K 4K 4000K	A5 Casambi A6 Industry Fixed Output A7 Industry DALI	SA Silver Anodized	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ±10% tolerances.
 Values based on 4000K Colour temperature.
 H = High Output

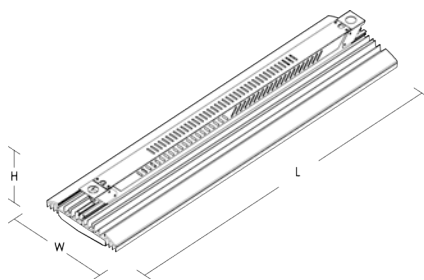
Example Code: FLO770H904KA7SAE3

Flo12 (1200mm)

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.
Select Current	Optics	CCT	Control	Finish	Emergency
50 650mA 17827 Lm-116W 70 700mA 23205 Lm-170W	90 90° Wide beam 60 60° Medium beam 40 40° High Racking beam BW Batwing beam	3K 3000K 4K 4000K	A5 Casambi A6 Industry Fixed Output A7 Industry DALI	SA Silver Anodized	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ±10% tolerances.
 Values based on 4000K Colour temperature.
 H = High Output

Example Code: FLO1270904KA7SAE3



Dimensions

L	W	H	Finish	Code	Colour Switch
			RAL		
750	185	90	Sliver Anodized	SA	
1200	185	90			

All dimensions are measured in millimetres (mm)



IP40
 Protection against solid objects that over 1mm.



Safety Class
 Class 1 Safety chassis is connected to earth with a separate terminal, instead of via the mains cable.



Warranty
 5 year Guarantee



3K

4K

IP40



EM3

HB2

Suspended

HB2 is a linear high performance IP40 High bay luminaire, which is suitable for industrial applications. Precise optics and lighting control for racking and open areas. Suitable for mounting heights of 6 to 12 metres.

- Efficacy of up to 135 lm/W.
- Colour temperatures: 3000°k or 4000°k.
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Optics: Six options available, 90° Wide beam as standard.
- Industry driver options: Fixed output or Dali dimming, for extended service life.
- Wireless control options: Casambi.
- Custom length Flex in Clear, Black or White flex are available.
- Options: Integrated High bay PIR sensor.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.

Technical

Product	HB2
Mounting type	Suspended
Standard Length	1029mm
Lumen	10145 - 16908Lm
Efficacy	Upto 135 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	High racking 60° Medium Beam 90° Wide Beam 110° Wide Beam Symmetrical 110° Opal Beam
Control	Industry DALI, Industry Fixed Output, Casambi,
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP40
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

P&A HB2

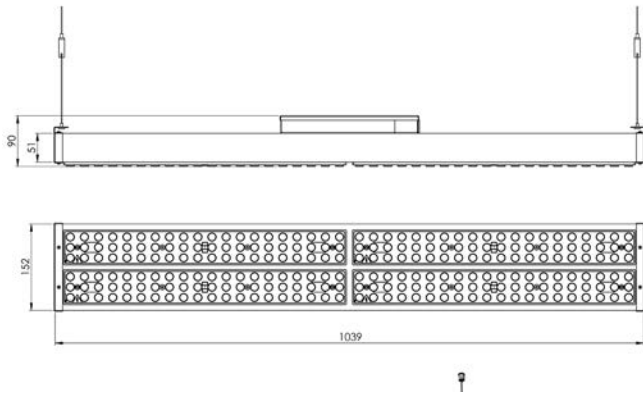
Luminaire Order Builder

HB2

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Options	STEP 7. Emergency
30 300mA 10145 Lm - 75W 35 350mA 11826Lm - 87.5W 40 400mA 13526 Lm - 100W 45 450mA 115217 Lm - 112W 50 500mA 16908 Lm - 125W	HR High Rack beam 60 60° Medium beam 90 90° Wide beam 110 110° Extra Wide beam SY Symmetrical retail beam O Opal Diffused 110° beam	3K 3000K 4K 4000K	A5 Casambi A6 Industry Fixed Output A7 Industry DALI	W RAL9016M B RAL9005 S RAL9006 Z Custom	PIR High Bay PIR Sensor	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature and 90° Wide Beam.

Example Code: HB250904KA6WE3



Dimensions

L	W	H (o/A)	RAL	Code	Colour Switch
1039	152	90	White	9016	
			Black	9005	
			Silver	9006	
			Custom*	Custom*	

All dimensions are measured in millimetres (mm)

Finish

*Custom Colours upon request



IP40
Protection against solid objects over 1mm, e.g. wires and nails



Safety Class
Class 1 Safety chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee



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Datasheet Code: PA-10741-0

CE BS EN60598-1:2015
ISO 9001 Certification





4K

IP66

BOL

Surface

BOL is minimalist low level bollard, suitable for pathway perimeter lighting. Designed as direct replacement for conventional HID lighting systems up to 70W.

- Efficacy of up to 36 lm/W.
- Colour temperature: 4000°k as standard.
- Colour Finishes: Black (9005) as standard, Other RAL colours, available on request.
- Optics: 360° symmetrical or 180° asymmetric distributions.
- Fixed output as standard.
- Mounting Kit c/w 200mm Zinc plated anchor bolts supplied as standard.
- Emergency not available.

Technical

Product	BOL
Mounting type	Surface
Lumens	488 - 674 Lm
Efficacy	Up to 36 Lm/W
Colour Temperature	Neutral White (4K)
Control	Fixed output
Optics	360° Symmetrical 180° Asymmetric
Emergency	Not Available
Rendering	Ra80+
IP Rating	IP66
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

Luminaire Order Builder

BOL -360 (360° Symmetrical distribution)

STEP 1. Select Wattage	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
19 19W 674 Lm - 525mA	CL Clear Polycarbonate Diffuser	4K 4000K	FO Fixed Output	B RAL9005 Z Custom	- Not Available

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature.

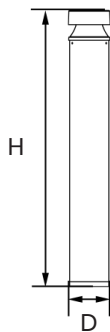
Example Code: BOL36019CL4KFOB

BOL -180 (180° Asymmetric distribution)

STEP 1. Select Wattage	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
19 19W 488 Lm - 525mA	CL Clear Polycarbonate Diffuser	4K 4000K	FO Fixed Output	B RAL9005 Z Custom	- Not Available

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature.

Example Code: BOL18019CL4KFOB



Dimensions

D	H	Finish	Code	Colour Swatch
120	1019	Black	9005	
		Custom*	Custom*	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request



IP66
Protection against dust and solid
objects, Water jets from any
angle (12.5mm nozzle)



Safety Class
Class 1 Safety chassis is con-
nected to earth with a separate
terminal, instead of via the
main cable



Warranty
5 year Guarantee



5K

IP65



EM3

DECO

Wall Mounted

DECO is an decorative, attractive, robust IP65, Cast aluminium, bulkhead luminaire. Suitable for building perimeters, walkways, entrances & exits.

- Efficacy of up to 88 lm/w.
- Colour temperature: 5000°k as standard.
- Colour Finishes: Black (9005) as standard, Other RAL colours, available on request.
- Fixed output as standard.
- Integral Photocell as standard.
- Emergency options: Standard 3hr.

Technical

Product	DECO
Mounting type	Wall mounted
Lumen	1240 Lm
Efficacy	Up to 88 Lm
Colour Temperature	Day White (5K)
Control	Fixed output
Optics	Polycarbonate
Emergency	3 hour
Rendering	Ra80+
IP Rating	IP65
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

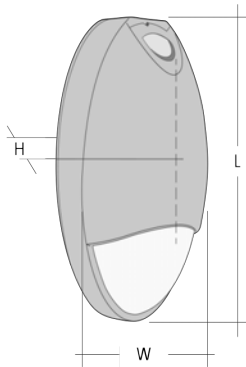
Luminaire Order Builder

DECO

STEP 1. Select Wattage	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
14 14W 1240 Lm	P Polycarbonate Diffuser	5K 5000K	FO Fixed Output	B RAL9005 Z Custom	E3 Standard 3 Hour

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: DECO14P5KFOBE3



Dimensions

L	W	H	RAL	Code	Colour Swatch
265	100	95	Black	9005	
			Custom*	Custom*	

All dimensions are measured in millimetres (mm)

Finish

RAL	Code	Colour Swatch
Black	9005	
Custom*	Custom*	

*Custom Colours upon request





Open version



Eyelid version



3K

4K

IP65



EM3

DT

Wall Mounted

DT is a circular, IP65, IK10, robust, bulkhead luminaire with light pollution reducing eyelid cover, manufactured from cast aluminium with polycarbonate diffuser. Suitable for walkways, building perimeters, passageways, storage areas, car parks and building entrances.

- Efficacy of up to 135 lm/W.
- Colour temperatures: 3000°k and 4000°k as standard.
- Optics: Opal Polycarbonate, with open cover as standard, Eyelid cover or Mesh cover also available.
- Optional: Slimline version available*.
- Colour Finishes: Grey or Black available.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.

Technical

Product	DT
Mounting type	Wall Mounted
Lumens	1486 - 2472 Lm
Efficacy	Up to 135 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Eyelid Open Opal Mesh Opal
Control	DALI 1-100%, DSI, Casambi, Bluetooth, Fixed output,
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP65
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

* Please contact technical department for more details.

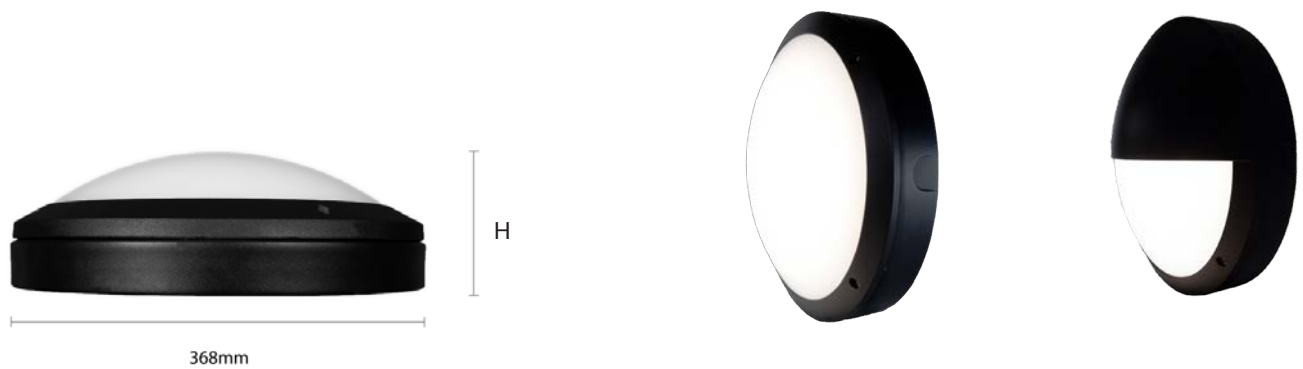
Luminaire Order Builder

DT

STEP 1. Select Current	STEP 2. Optic	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Options	STEP 7. Emergency
35 350mA 1486Lm- 11.2W	EY Eyelid Opal Diffuser	3K 3000K	FO Fixed Output	G Grey	M* Microwave Sensor	E3 Standard 3 Hour
40 400mA 1701Lm- 12.7W	OP Open Opal Diffuser	4K 4000K	A1 DALI 1-100% Dim	B Black		ED DALI/EMPRO
45 450mA 1896Lm- 14.2W	MO Mesh Opal Diffuser		A2 DSI			ES Self-Test
50 500mA 2064Lm- 15.5W			A3 Switch Dim			EW 3 hour DALI Wireless Sentinel
55 550mA 2259Lm- 17W			A5 Casambi			
60 600mA 2472Lm- 18.7W						

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature and Open diffuser.

Example Code: DT60OP4KA1BE3



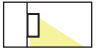
Dimensions

DØ	H	RAL	Code	Colour Swatch
368	146	Grey	G	
368	171*	Black	B	

All dimensions are measured in millimetres (mm)
* Eyelid version only

Finish

IP65	IP65 Protection against dust and solid objects, Water jets from any angle (12.5mm nozzle)		Safety Class Class 1 Safety, chassis is connected to earth with a separate terminal, instead of via the mains cable		Warranty 5 year Guarantee
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4K

IP65



EM3

Scorpius

Wall

Scorpius is a robust wall mounted bulkhead luminaire, suitable for wide range of applications including general area, amenity or perimeter lighting. Designed as direct replacement for conventional wall mounted HID lighting systems from 70W up to 175W.

- Efficacy of up to 138 lm/W.
- Colour temperatures: 4000°k as standard.
- Colour Finishes: Black (9005) as standard, Other RAL colours, available on request.
- Fixed output as standard.
- Mounting heights from 3 to 5 meters.
- Emergency options: Standard 3hr, Self-Test or Dali addressable.

Technical

Product	Scorpius
Mounting type	Wall
Lumens	1958 - 3728 Lm
Efficacy	Up to 138 Lm
Colour Temperature	Neutral White (4K)
Control	Fixed output
Emergency	3 hour, DALI, Self-Test
Rendering	Ra80+
IP Rating	IP65
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

P&A Scorpius

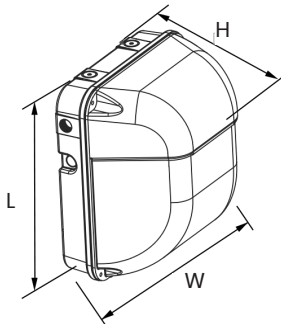
Luminaire Order Builder

SCP

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
35 350mA 1958 Lm -14.3W 50 500mA 2720 Lm -19.7W 70 700mA 3728 Lm -27.8W	PC Clear Polycarbonate prismatic lens	4K 4000K	FO Fixed Output	B RAL9005	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: SCP70PC4KFOBE3

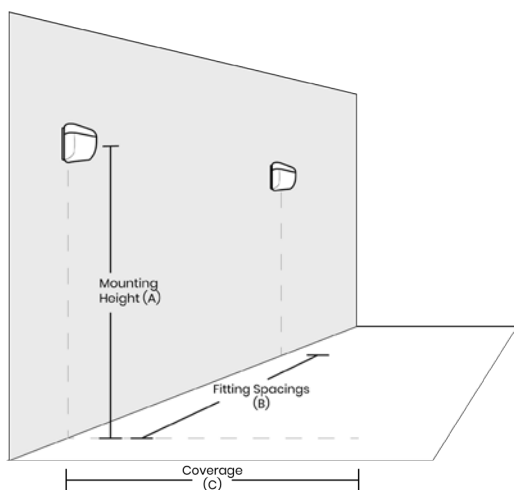


Dimensions

L	W	H	Finish	Code	Colour Swatch
299	267	184	Black	9005	

All dimensions are measured in millimetres (mm)

Luminaire spacings



0.25 Uniformity (U₀)

Mounting Height (A)	Fitting spacings (B)	Coverage (C)
3.0	13	2
4.0	19.5	3
5.0	N/A	N/A

0.40 Uniformity (U₀)

Mounting Height (A)	Fitting spacings (B)	Coverage (C)
3.0	9	2
4.0	13	3
5.0	16	4

All dimensions shown are in metres.



IP65
Protection against dust and solid
objects; Water jets from any
angle (12.5mm nozzle)



Safety Class
Class 1 Safety: chassis is con-
nected to earth with a separate
terminal, instead of via the
main cable



Warranty
5 year Guarantee



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CE BS EN60598-1:2015
ISO 9001 Certification



Datasheet Code: **SCORPIUS**



3K 4K 65K

IP65



EM3

IK10



SHK

Wall Mounted

SHK is an exterior modern, minimalist bulkhead luminaire, with IP65, IK10 impact resistant housing. Ideal for a wide range of applications, such as building, accent, or perimeter lighting. Available in Large or Midi version.

- Efficacy of up to 140 lm/W.
- IP65 and IK10 resistant housing.
- Versions: Large Body or Midi available.
- Optics: Open Area Lens or Asymmetric.
- Die cast aluminium housing with Polycarbonate diffuser.
- Colour temperatures: 3000°k, 4000°k or 6500°k*.
- Colour Finishes: Anthracite (7016), Black (9005) or grey White (9002) as standard.
- Fixed output as standard.
- Emergency options: Standard 3hr.
- Rear or side cable entry points as standard.
- Suitable for conduit and BESA box installations.
- Integrated options: Photocell or Microwave sensor available upon request.*

Technical

Product	SHK
Mounting type	Wall Mounted
Standard Sizes	Large Midi
Lumen	950 - 3487 Lm
Efficacy	Up to 140 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K) Cool White (6.5K)*
Optics	Open Area Lens Asymmetric
Control	Fixed output
Emergency	3 hour
Rendering	Ra80+
IP Rating	IP65
Safety Class	Class 1
IK Rating	IK08
MacAdam	SDCM 5

* Please contact P&A Technical Department for assistance
** Only available in large version only.

Luminaire Order Builder

SHK-L (Large Version)

STEP 1. Select Current	STEP 2. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 6. Options	STEP 7. Emergency
35 350mA 1757Lm- 12.6W	OA Open Area Lens	34K 3000K/4000K CCT changeable	FO Fixed Output	A RAL7016	MW Microwave sensor	E3 Standard 3 Hour
50 500mA 2453Lm- 17.7W	AS Asymmetric Lens	65K 6500K		G RAL9002	PC Photocell	
72 725mA 3487Lm- 26.4W				B RAL9005		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature with Open Area Lens.

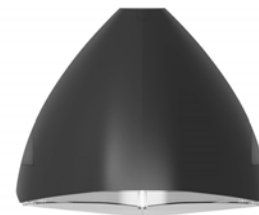
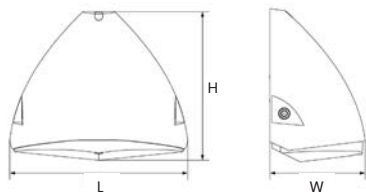
Example Code: SHK350A34KFOAE3

SHK-M (Midi Version)

STEP 1. Select Current	STEP 2. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 6. Options	STEP 7. Emergency
20 200mA 950Lm- 8W	OA Open Area Lens	34K 3000K/4000K CCT changeable	FO Fixed Output	A RAL7016	MW Microwave sensor	E3 Standard 3 Hour
25 500mA 1150Lm- 10W	AS Asymmetric Lens			B RAL9005	PC Photocell	
30 300mA 1400Lm- 13W						
35 350mA 1550Lm- 13W						

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature with Open Area Lens.

Example Code: SHKM200A34KFOA



Dimensions

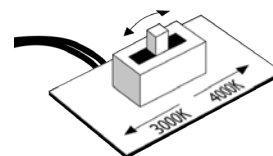
L	W	H	Finish	Code	Colour Swatch
319	165	265	Anthracite	7016	
260	214	136.5	Grey White	9002	
			Black	9005	

All dimensions are measured in millimetres (mm)

Ancillary diagram

CCT switch

3000K/4000K



IP65
Protection against dust and solid objects. Water jets from any angle (2.5mm nozzle)



Safety Class
Class 1 Safety, chassis is connected to earth with a separate terminal, instead of via the mains cable



IK10
IK rating
Protected against 20 joules impact. Equivalent to impact of 5kg mass dropped from 400mm above surface.



Warranty
5 year Guarantee



TRI-X

Wall Mounted

TRI-X, is a modern exterior wall mounted luminaire, providing a high quality of light efficacy. Housing fabricated from Heavy duty steel fitted with durable polycarbonate diffuser, gasket sealed front frame secured with anti tamper screws.

- Efficacy of up to 104 lm/W.
- Colour temperatures: 3000°k or 4000°k.
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Optic: Type II/III for pedestrian paths*
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.

Technical

Product	TRI-X
Mounting type	Wall Mounted
Dimension	215mm x 320mm
Lumen	1351 - 1788 Lm
Efficacy	Upto 104 Lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optic	Type II/III
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output,
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra70+
IP Rating	IP65
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

*Other Optics available, Please contact P&A technical department for more details.

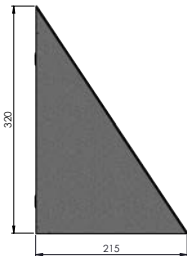
Luminaire Order Builder

TRI-X

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
50 500mA 1351 Lm - 13W 60 600mA 1597 Lm - 15.8W 65 650mA 1685 Lm - 16.8W 70 700mA 1788 Lm - 18.1W	CL Type II/III For pedestrian paths	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature and DALI driver.

Example Code: TRIX50CL4KFOB



Dimensions

L	W	H	Finish		
			RAL	Code	Colour Swatch
215	215	320	White	9016	
			Black	9005	
			Silver	9006	
			Custom*	Custom*	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request



IP65
Protection against dust and solid objects. Water jets from any angle (12.5mm nozzle)



Safety Class
Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee



3K

4K

IP20



EM3

Space 2

Suspended

Space 2 is a contemporary suspended luminaire with a streamlined appearance, creates a perfect finish to modern offices. Available in various optics and outputs, to suit your needs. Supplied in Direct/ Indirect as standard.

- Efficacy of up to 106 lm/W
- LG7 Compliant, UGR<19 when used with microprism diffuser.
- Colour temperatures: 3000°k, 4000°k.
- Colour Finishes: White (9016) as standard. Other RAL colours, available on request.
- Can be continuously mounted with infill sections
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Options: PIR sensor.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.

Technical

Product	Space 2
Mounting type	Suspended
Standard Lengths	650mm
	1200mm
	1500mm
Lumen	1157- 4338 Lm
Efficacy	Upto 106 lm/W
Colour Temperature	Warm White (3K)
	Neutral White (4K)
Optics	Opal diffuser
	Microprism (UGR<19)
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

P&A Space 2

Luminaire Order Builder

Space2-WS-6 (650mm)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Options	STEP 8. Emergency
30 300mA 1157 Lm - 11.5W 35 350mA 1349 Lm - 13.5W 40 400mA 1542 Lm - 15.4W 45 450mA 1735 Lm - 17.3W 50 500mA 1919 Lm - 18W	DI Direct/Indirect	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	PIR Passive Infrared sensor	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: SPACE2WS650DM4KA1WEW

Space2-WS-12 (1200mm)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Options	STEP 8. Emergency
20 200mA 1542 Lm-15.9W 25 250mA 1928 Lm- 19.9W 30 300mA 2313 Lm - 23.9W 35 350mA 2699 Lm - 27.8W 40 400mA 3084 Lm -31.8W 45 450mA 3470 Lm - 35.8W	DI Direct/Indirect	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	PIR Passive Infrared sensor	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: SPACE2WS1220DO4KA1WE3



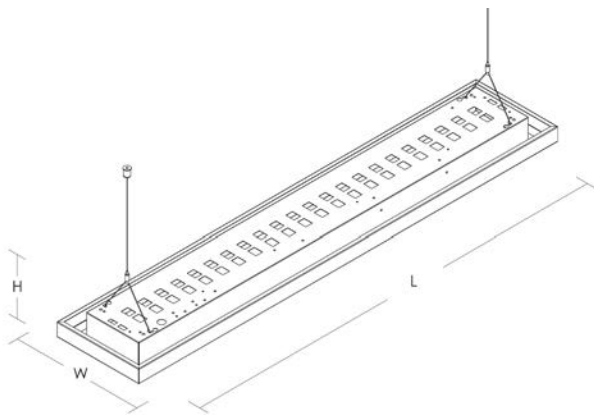
P&A Space 2

Space2-WS-15 (1500mm)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Options	STEP 8. Emergency
20 200mA 1928 Lm-19.2W 25 250mA 2410 Lm- 24W 30 300mA 2892 Lm - 28.8W 35 350mA 3374 Lm - 33.6W 40 400mA 3856 Lm -38.4W 45 450mA 4338 Lm - 43.3W	DI Direct/Indirect	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	PIR Passive Infrared sensor ES Self-Test EW 3 hour DALI Wireless Sentinel	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: SPACE2WS1540DO4KA1WPIRE3



Dimensions

L	W	H	Finish	Code	Colour Swatch
1280	250	65	White	9016	
1588	250	65	Black	9005	
			Silver	9006	
			Custom*	Custom*	

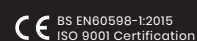
All dimensions are measured in millimetres (mm)

*Custom Colours upon request



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Datasheet Code: PA-10301-0





3K

4K

IP20



EM3

Space 3

Suspended

Space 3 is a slim profile edge-lit suspended luminaire with a streamlined modern appearance, creates a perfect finish to modern offices. Available in various optics and outputs, to suit your needs. Supplied as Direct or Direct/ Indirect.

- Efficacy of up to 109 lm/W
- LG7 Compliant, UGR<19 when used with microprism diffuser.
- Colour temperatures: 3000°k, 4000°k.
- Colour Finishes: White (9016) as standard. Other RAL colours, available on request.
- Can be continuously mounted with infill sections
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Options: PIR sensor.
- Emergency options: Standard 3hr, Self-Test or Dali addressable, 3hr Dali Wireless Sentinel.

Technical

Product	Space 3
Mounting type	Suspended
Standard Lengths	1200mm 1500mm
Lumen	4302 - 9102 Lm
Efficacy	Upto 109 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal diffuser Microprism (UGR<19)
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

P&A Space 3

Luminaire Order Builder

Space3-12 (1200mm Direct)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Options	STEP 8. Emergency
30 300mA 4302 Lm -46.2W 35 350mA 5019 Lm -53.6W 40 400mA 5736 Lm -61W 45 450mA 6453 Lm -66.3W	D Direct	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	PIR Passive Infrared sensor	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature, microprism diffuser
and DALI driver.

Example Code: S31250DM4KA1WEW

Space3-12 (1200mm Direct/Indirect)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Options	STEP 8. Emergency
30 300mA 4854 Lm -44.2W 35 350mA 5663 Lm -51.6W 40 400mA 6473 Lm -59W 45 450mA 7282 Lm -66.3W	DI Direct/Indirect	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	PIR Passive Infrared sensor	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature, microprism diffuser
and DALI driver.

Example Code: S31230DIM4KA1WEW

P&A Space 3

Luminaire Order Builder

Space3-15 (1500mm Direct)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Options	STEP 8. Emergency
30 300mA 5377 Lm - 55.3W 35 350mA 6274 Lm - 64.5W 40 400mA 7170 Lm - 73.7W 45 450mA 8066 Lm - 82.9W	D Direct	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	PIR Passive Infrared sensor	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature, microprism diffuser
and DALI driver.

Example Code: S31550DM4KA1WEW

Space3-12 (1500mm Direct/Indirect)

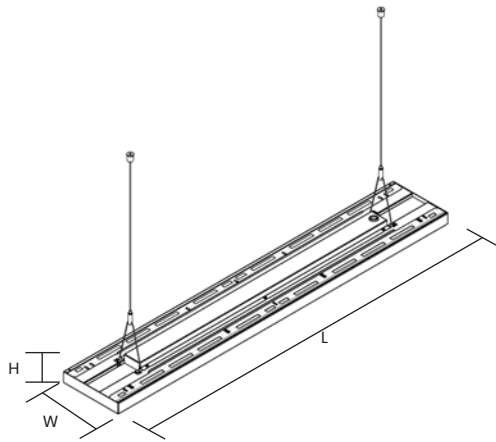
STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Options	STEP 8. Emergency
30 300mA 8068 Lm - 55.3W 35 350mA 7079 Lm - 64.5W 40 400mA 8091 Lm - 73.7W 45 450mA 9102 Lm - 82.9W	DI Direct/Indirect	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	PIR Passive Infrared sensor	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature, microprism diffuser
and DALI driver.

Example Code: S31530DIM4KA1WEW



P&A Space 3



Dimensions

L	W	H	Finish	Code	Colour Swatch
1280	250	65	White	9016	
1588	250	65	Black	9005	
			Silver	9006	
			Custom*	Custom*	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request

Space 3 Ancillaries

Wire Suspensions

Wire Suspensions	Code
3m Wire suspension kit	SP3-WS-3M
Custom length (1m increments)	SP3-WS-ZM

Clear 0.75mm², Supply Cable

3 core, Clear, 3m	FL-3C-C-3M
3 core, Clear, Custom Length*	FL-3C-C-ZM
5 core, Clear, 3m	FL-5C-C-3M
5 core, Clear, Custom Length*	FL-5C-C-ZM
6 core, Clear, 3m	FL-6C-C-3M
6 core, Clear, Custom Length*	FL-6C-C-ZM

Black 0.75mm², Supply Cable

3 core, Black, 3m	FL-3C-B-3M
3 core, Black, Custom Length*	FL-3C-B-ZM
5 core, Black, 3m	FL-5C-B-3M
5 core, Black, Custom Length*	FL-5C-B-ZM
6 core, Black, 3m	FL-6C-B-3M
6 core, Black, Custom Length*	FL-6C-B-ZM

White 0.75mm², Supply Cable

3 core, White, 3m	FL-3C-W-3M
3 core, White, Custom Length*	FL-3C-W-ZM
5 core, White, 3m	FL-5C-W-3M
5 core, White, Custom Length*	FL-5C-W-ZM
6 core, White, 3m	FL-6C-W-3M
6 core, White, Custom Length*	FL-6C-W-ZM



Warranty
5 year Guarantee

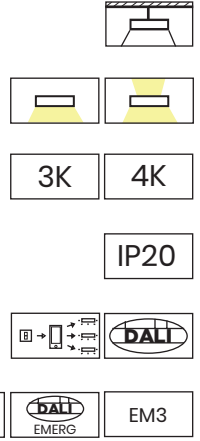


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Datasheet Code: PA-10699-0

CE BS EN60598-1:2015
ISO 9001 Certification

MADE IN BRITAIN



SSP

Suspended

SSP is a minimalist, architectural linear suspended luminaire, perfect for offices, schools and universities. Manufactured from extruded aluminium with a profile dimension of 150mm x 55mm. Supplied as Direct or Direct/Indirect*, in standard lengths 926mm, 1226mm & 1526mm, with a variety of optics to suit your needs.

- Efficacy of up to 127 lm/W.
- LG7 Complaint, UGR<19 (when used with microprism diffuser).
- Colour temperatures: 3000°k or 4000°k as standard
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- 3m wire suspension kit and mounting bracket supplied as standard.
- Custom length wire suspension, Clear, Black or White flex are also available.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel.

Technical

Product	SSP
Mounting type	Suspended
Standard Lengths	926mm
	1226mm
	1526mm
Lumen	3407- 11026Lm
Lumen/M	Up to 127 lm/W
Colour Temperature	Warm White (3K)
	Neutral White (4K)
Optics	Opal diffuser
	Microprism (UGR<19)
Control	DALI 1-100%, DSI, 1-10V, Casambi, Bluetooth, Fixed output
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

* Please contact P&A Technical Department for assistance

Luminaire Order Builder

SSP9 (926mm Direct)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Options	STEP 8. Emergency
25 250mA 3407 Lm -26.8W 50 500mA 6691 Lm -52.6W	D Direct	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	PIR Passive Infrared sensor	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature, Microprism diffuser and DALI driver.

Example Code: SSP935DO4KAIWPIRE3

SSP12 (1226mm Direct)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Options	STEP 8. Emergency
25 250mA 4511 Lm -36.5W 50 500mA 8859 Lm -71.7W	D Direct	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	PIR Passive Infrared sensor	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature, Microprism diffuser and DALI driver.

Example Code: SSP1235DO4KAIWPIRE3

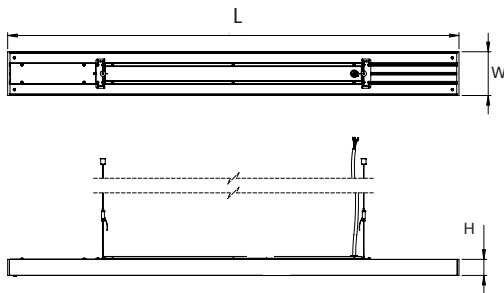
Luminaire Order Builder

SSP15 (1526mm Direct)

STEP 1. Select Current	STEP 2. Direction	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Options	STEP 8. Emergency
25 250mA 5615 Lm - 44.2W 50 500mA 11026 Lm - 86.7W	D Direct	O Opal Diffuser M Microprism UGR<19	3K 3000K 4K 4000K	FO Fixed Output A1 DALI 1-100% Dim A2 DSI A3 Switch Dim A4 1-10v A5 Casambi	W RAL9016M B RAL9005 S RAL9006 Z Custom	PIR Passive Infrared sensor	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature, Microprism diffuser and DALI driver.

Example Code: SSP1535DO4KAIWPIRE3



Dimensions

L	W	H
926	150	55
1226	150	85
1526	150	55

Finish

RAL	Code	Colour Swatch
White	9016	
Black	9005	
Silver	9006	
Custom*	Custom*	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request





Astreo M-AL

Recessed

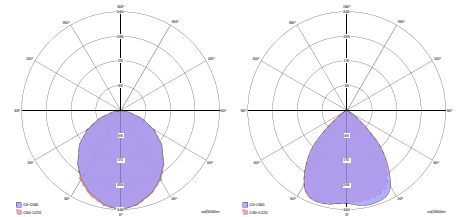
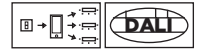
Astreo M-AL is anti-vandal, anti-ligature recessed 152mm Ø LED downlight. Designed for secure healthcare, hospital and prison facilities, various lumen packages. Heavy duty fabricated steel bezel secured with anti tamper screws.

- Efficacy of up to 134 lm/W.
- Colour temperatures: 3000°k, 4000°k or Tunable White (2700°k - 5700°k).
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Optic options: Flush, Dome, Diamond facet and Specular
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test or Dali addressable, 3hr Dali Wireless Sentinel.



3K 4K 2.7-5.7K

IP20



AM-Flush

AM-Specular

Technical

Product	Astreo M-AL
Mounting type	Recessed
Lumens	962 - 2476 Lm
Efficacy	Up to 125 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K) Tunable White (2.7K >5.7K)
Dimming	DALI 1-100%, DSI, 1-10V, Casambi
Emergency	3 hour, DALI, Self-Test, DALI Wireless Sentinel
Colour rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>75K

P&A Astreo M-AL

Luminaire Order Builder

AM-AL (Reflector variants)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
35 350mA 962 Lm - 10.9W	DF Diamond facet	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
40 400mA 1025 Lm -12.6W	SP Specular	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
		TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
			A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
			A4 1-10v		
			A5 Casambi		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature and specular reflector

Example Code: AMAL50SPG4KA1WE3

AM-AL (Flush diffuser)

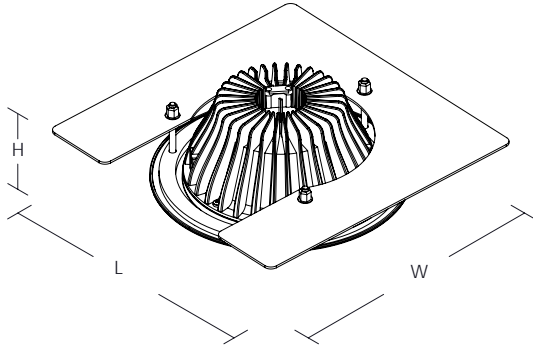
STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
35 350mA 1328 Lm - 10.9W	FL Flush opal diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
40 400mA 1518 Lm -12.4W	D Opal dome	4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
45 450mA 1707 Lm - 14W		TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
50 500mA 1829 Lm - 15.6W			A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
55 550mA 2195 Lm -18.7W			A4 1-10v		
60 600mA 2299 Lm - 20.5W			A5 Casambi		
65 650mA 2476 Lm - 22.1W					
70 700mA 2476 Lm - 20W					

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: AMAL50FLG4KA1WE3



P&A Astreo M-AL



Dimensions

Part	D	L	W	H
Astreo-M	152Ø	N/A	52	52
AL-Patress plate	N/A	200	200	1.2

All dimensions are measured in millimetres (mm)
Hole cut out size: 122mmØ

Finish

RAL	Code	Colour Swatch
White	9016M	
Black	9005	
Silver	9006	
Custom*	Custom*	

*Custom Colours upon request

IP20

IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee



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Datasheet Code: PA-10272-0

CE BS EN60598-1:2015
ISO 9001 Certification

MADE IN BRITAIN

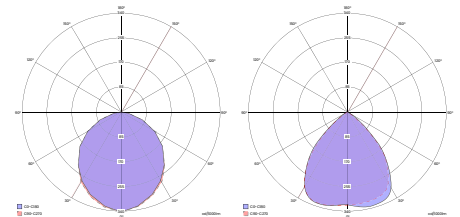
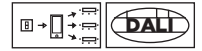


Astreo-AL

Recessed

Astreo-AL recessed 195mm Ø LED anti-vandal, anti-ligature downlight. Designed for secure healthcare, hospital and prison facilities, Heavy duty fabricated steel bezel secured with anti tamper screws. Suitable for numerous application, in a variety of lumen packages and reflectors options. Designed with unique cast housing, to operate with high lumen outputs.

- Efficacy of up to 136.7 lm/W.
- Colour temperatures: 3000°k, 4000°k or Tunable White (2700°k - 5700°k).
- Colour Finishes: White (9016), Black (9005) or Silver (9006). Other RAL colours, available on request.
- Optic options: Flush, Dome, Diamond facet and Specular
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3Hr Dali Wireless Sentinel.
- Special projects: RGBW available upon request*.



A-Flush

A-Specular

Technical

Product	Astreo-AL
Mounting type	Recessed
Lumens	1010 - 2829 Lm
Efficacy	Up to 136.7 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K) Tunable White (2.7K >5.7K) RGBW*
Dimming	DALI 1-100%, DSI, 1-10V, Casambi
Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Colour rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>75K

* Please contact P&A Technical Department for assistance

Luminaire Order Builder

Astreo-AL (Diamond facet)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
20 200mA 1182 Lm - 8.9W	DF Diamond facet	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
25 250mA 1445 Lm - 10.7W		4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
30 300mA 1748 Lm - 13.1W		TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
35 350mA 2016 Lm - 14.8W		RBGW Red, Green, Blue, White	A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
40 400mA 2313 Lm - 16.9W			A4 1-10v		
45 450mA 2587 Lm - 19.1W			A5 Casambi		
50 500mA 2805 Lm - 21W					

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: AAL35DFG4KA1WE3

Astreo-AL (Specular)

STEP 1. Select Current	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Emergency
20 200mA 1182 Lm - 8.9W	SP Specular	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
25 250mA 1446 Lm - 10.7W		4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
30 300mA 1758 Lm - 13.1W		TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
35 350mA 2017 Lm - 14.8W		RBGW Red, Green, Blue, White	A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
40 400mA 2315 Lm - 16.9W			A4 1-10v		
45 450mA 2592 Lm - 19.1W			A5 Casambi		
50 500mA 2829 Lm - 21W					

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: AAL35SPG4KA1WE3

Luminaire Order Builder

Astreo-AL (Flush Opal diffuser)

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.
Select Current	Optics	CCT	Control	Finish	Emergency
20 200mA 1010 Lm - 8.9W	FL Flush opal diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
25 250mA 1243 Lm - 10.7W		4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
30 300mA 1494 Lm - 13W		TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
35 350mA 1721 Lm - 14.8W		RBGW Red, Green, Blue, White	A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
40 400mA 1974 Lm - 16.8W			A4 1-10v		
45 450mA 2206 Lm - 18.9W			A5 Casambi		
50 500mA 2357 Lm - 21W					

All electrical and optical data subject to $\pm 10\%$ tolerances.
 Values based on 4000K Colour temperature.

Example Code: AAL35FLG4KA1WE3

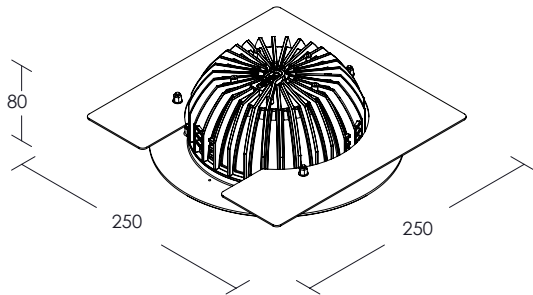
Astreo-AL (Opal dome diffuser)

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.
Select Current	Optics	CCT	Control	Finish	Emergency
20 200mA 1010 Lm - 8.9W	D Opal dome	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
25 250mA 1243 Lm - 10.7W		4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
30 300mA 1493 Lm - 13W		TW 2700K - 5700K Tunable white	A2 DSI	S RAL9006	ES Self-Test
35 350mA 1726 Lm - 14.8W		RBGW Red, Green, Blue, White	A3 Switch Dim	Z Custom	EW 3 hour DALI Wireless Sentinel
40 400mA 1966 Lm - 16.8W			A4 1-10v		
45 450mA 2207 Lm - 18.9W			A5 Casambi		
50 500mA 2441 Lm - 21W					

All electrical and optical data subject to $\pm 10\%$ tolerances.
 Values based on 4000K Colour temperature.

Example Code: AAL35DG4KA1WE3

P&A Astreo-AL



Dimensions

L	D	L	W	H
Astreo	195Ø	N/A	N/A	80
AL-Patress plate	N/A	250	250	1.2

Finish

RAL	Code	Colour Swatch
White	9016M	
Black	9005	
Silver	9006	
Custom*	Custom*	

All dimensions are measured in millimetres (mm)
Hole cut out size: 175mmØ

*Custom Colours upon request



IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



Safety Class
Class 1 Safety: chassis is connected to earth with a separate terminal, instead of via the mains cable

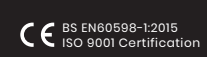


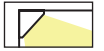
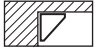
Warranty
5 year Guarantee



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Datasheet Code: PA-10001-0





3K

4K

IP44

IP65



EM3

VRC

Surface

VRC is a robust cornice, anti-vandal, anti-ligature luminaire. Designed for secure healthcare, hospital and prison facilities. Heavy duty fabricated steel housing fitted with high impact polycarbonate diffuser, gasket sealed** front frame secured with anti tamper screws.

- Efficacy of up to 127 lm/W.
- Colour temperatures: 3000°k, 4000°k
- Colour Finishes: White (9016) as standard. Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Emergency options: Standard 3hr, Self-Test or Dali addressable.
- Supplied with tamper proof screws.
- TX25 Torx screwdriver required for installation.*

Technical

Product	VRC
Mounting type	Surface
Standard Lengths	650mm
	1200mm
	1500mm
Lumens	1510 - 7906 Lm
Efficacy	Up to 127 lm/W
Colour Temperature	Warm White (3K)
	Neutral White (4K)
Optics	Opal diffuser
Control	DALI 1-100%, DSI, 1-10V, Fixed output
Emergency	3 hour, DALI, Self-Test
Rendering	Ra80+
IP Rating	IP44
	IP65
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

* Not supplied with the luminaire

** IP65 Version only

Luminaire Order Builder

VRC (650mm)

STEP 1. Select IP rating	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
44 IP44 rated	35 350mA 1510 Lm - 12.9W	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
65 IP65 rated	50 500mA 2147 Lm - 18.5W		4K 4000K	A1 DALI 1-100% Dim	Z Custom	ED DALI/EMPRO
	70 700mA 2897 Lm - 26.1W			A2 DSI		ES Self-Test
				A3 Switch Dim		
				A4 1-10v		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: VRC446535O4KAIWE3

VRC (1200mm)

STEP 1. Select IP rating	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
44 IP44 rated	35 350mA 3325 Lm - 26.9W	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
65 IP65 rated	50 500mA 4770 Lm - 38.2W		4K 4000K	A1 DALI 1-100% Dim	Z Custom	ED DALI/EMPRO
	70 700mA 6325 Lm - 53.3W			A2 DSI		ES Self-Test
				A3 Switch Dim		
				A4 1-10v		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

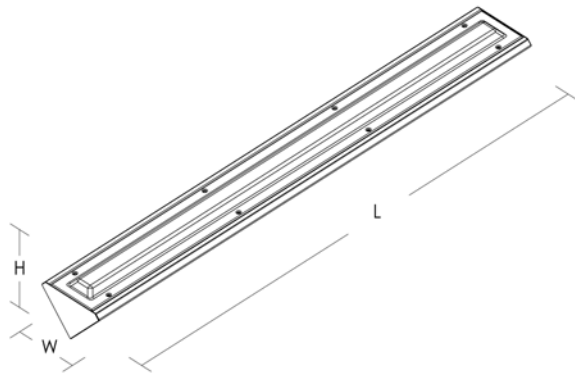
Example Code: VRC441235O4KAIWE3

Luminaire Order Builder VRC (1500mm)

STEP 1. Select IP rating	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
44 IP44 rated	35 350mA 4156 Lm - 33.1W	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
65 IP65 rated	50 500mA 5963 Lm - 46.7W		4K 4000K	A1 DALI 1-100% Dim	Z Custom	ED DALI/EMPRO
	70 700mA 7906 Lm - 65.3W			A2 DSI		ES Self-Test
				A3 Switch Dim		
				A4 1-10v		

All electrical and optical data subject to ±10% tolerances.
Values based on 4000K Colour temperature.

Example Code: VRC44I53504KAIWE3



Dimensions

L	W	H	Finish	Code	Colour Swatch
650	113	113	White	9016M	
1200	113	113	Custom*	Custom*	
1500	113	113			

All dimensions are measured in millimetres (mm)

*Custom Colours upon request

Installation tools required

Torx Screwdriver*



*Not supplied with the Luminaire



IP44
Protection against objects >1mm (small tools) and water spray from all directions.



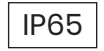
IP65
Protection against dust (dust tight) and water jets from any angle (2.5mm nozzle)



Safety Class
Class 1 Safety chassis is connected to earth with a separate terminal, instead of via the mains cable.



Warranty
5 year Guarantee



AL-RO2

Surface

AL-RO2 is a slimline anti-ligature circular bulkhead luminaire with impact resistant polycarbonate diffuser, with tough aluminium housing and finished with tamper proof screws. Available in a 450mm diameter. Available in a range of outputs to suit your needs.

- Efficacy of up to 135 lm/W.
- Colour temperatures: 3000°k or 4000°k.
- Optics: Opal TP(a) Polycarbonate diffuser as standard.
- Colour Finishes: White (9016), Black (9005)
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Wireless control options: Casambi.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3Hr Dali Wireless Sentinel.

Technical

Product	AL-RO2
Mounting type	Surface
Diameters	450mm
Lumens	1486 - 2472 lm
Efficacy	Upto 135 lm/W
Colour Temperature	Warm White (3K) Neutral White (4K)
Optics	Opal diffuser TP(a)
Control	DALI 1-100%, DSI, 1-10V, Casambi, Fixed output
Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP65
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

P&A AL-R02

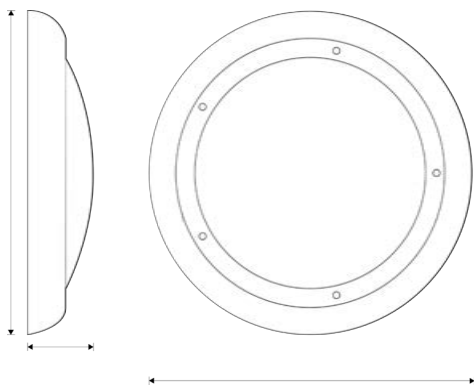
Luminaire Order Builder

AL-R02

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.	STEP 6.
Select Current	Optic	CCT	Control	Finish	Emergency
35 350mA 1486Lm- 11.2W	O Opal Diffuser TP(a)	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
40 400mA 1701Lm- 12.7W		4K 4000K	A1 DALI 1-100% Dim	B RAL9005	ED DALI/EMPRO
45 450mA 1896Lm- 14.2W		A2 DSI	S RAL 9006	ES Self-Test	
50 500mA 2064Lm- 15.5W		A3 Switch Dim	AC Anodised Chrome	EW 3 hour DALI Wireless Sentinel	
55 550mA 2259Lm- 17W		A4 1-10v	AB Anodised Brass		
60 600mA 2472Lm- 18.7W		A5 Casambi	Z Custom		

All electrical and optical data subject to $\pm 10\%$ tolerances.
 Values based on 4000K Colour temperature and fixed output driver

Example Code: ALR029004KFOWE3



Dimensions

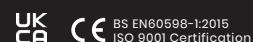
DØ	H	Finish	Code	Colour Swatch
450	110	White	9016M	

All dimensions are measured in millimetres (mm)



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Datasheet Code: PA-ALR02-0





45K

IP42



EM3



Recessed



Surface

Emerald AL

Surface or Recessed

Emerald AL is anti ligature emergency downlight luminaire with built in charge indicator, Surface or recessed mounted and available in variety of optics, to suit your needs.

- Colour temperature: 4500°k.
- Non Maintained as standard.
- Colour Finishes: White, Black or Silver as standard.
- Surface version: Integral inverter and battery kit as standard.
- Recessed version: Inverter and battery kit can fit through 72.5mmØ cut out.
- Recessed version: Secured to ceilings with 3 x Tamper proof screws.
- Recessed version: 175mm Minimum void depth required.
- Nickel Cadmium (NiCd) Battery.
- We recommend the use of anti-pick mastic to applied to the rear bezel on install, as an added precautionary measure. Supplied by others.
- Emergency options: Standard 3hr, Self-Test, DALI addressable or 3hr DALI Wireless Sentinel.

Technical

Product	Emerald AL
Mounting type	Recessed Surface
Lumens	160Lm
Colour Temperature	Neutral White (45k)
Optics	High Level Corridor Open Area
Emergency	3 hour, DALI, Self-Test, 3 hour DALI Wireless Sentinel
Rendering	Ra80+
IP Rating	IP42*
Safety Class	Class 2
LED Lifetime	50K

* LED Module only, not including front bezel.

P&A Emerald AL

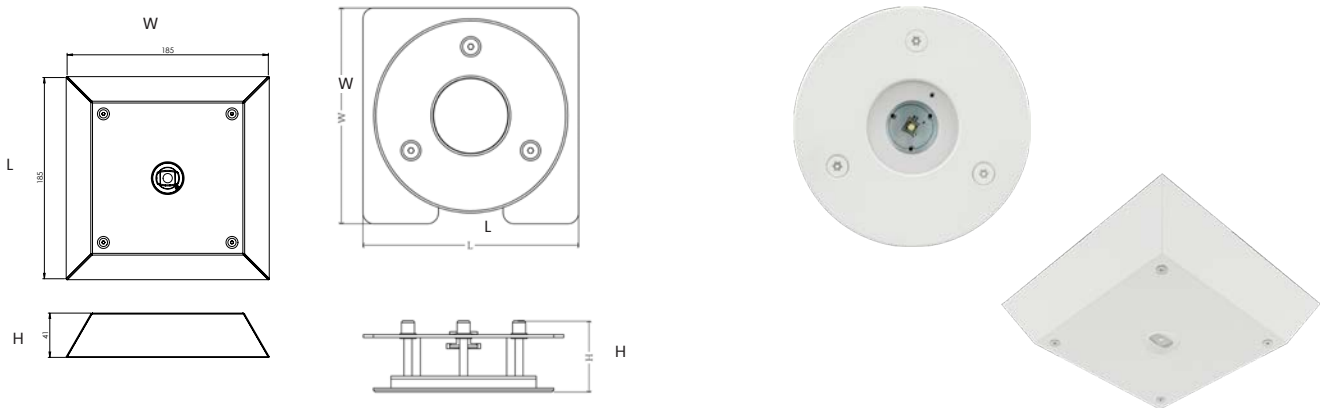
Luminaire Order Builder

EML-AL

STEP 1. Select mounting	STEP 2. Operation	STEP 3. Optics	STEP 4. CCT	STEP 5. Finish	STEP 6. Emergency
SF Surface R Recessed	NM Non Maintained 1.5W - 160 Lm	OA Open Area Lens C Corridor Lens HL High Level Lens	45K 4500K	W White S Silver B Black	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test EW 3 hour DALI Wireless Sentinel

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4500K Colour temperature.

Example Code: EMLALNMOA45KWE3



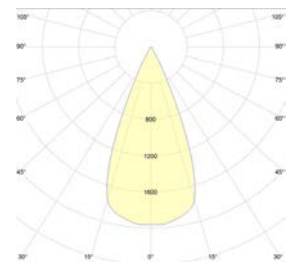
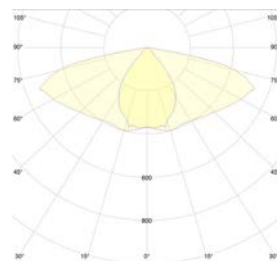
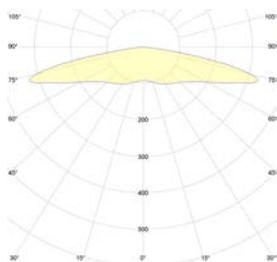
Dimensions (Overall)

Version	L	W	H	Finish	Code
Recessed*	100	100	34	White	W
Surface	185	185	41	Silver	S
				Black	B

All dimensions are measured in millimetres (mm)
*72.5mm cutout and 175mm minimum void depth required for driver to pass through.

Polar Curves

Open Area Corridor High Level lens



IP42

IP42
Protection against solid objects that over 1mm and from low velocity sprays of water from angles up to 15 degrees.



Safety Class
Class 2 Safety chassis is double insulated appliance, designed in such a way that it does not require a safety connection to electrical earth.



Warranty
5 year Guarantee

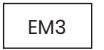
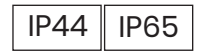


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Datasheet Code: PA-10454-0

UK CA CE BS EN60598-1:2015 ISO 9001 Certification





VR

Surface

VR is a surface mounted, anti-vandal, anti-ligature luminaire. Designed for secure healthcare, hospital and prison facilities. Heavy duty fabricated steel housing fitted with high impact polycarbonate diffuser, gasket sealed front frame secured with anti tamper screws.

- Efficacy of up to 130 lm/W.
- Colour temperatures: 3000°k, 4000°k
- Colour Finishes: White (9016) as standard. Other RAL colours, available on request.
- Dimming options: DALI 1-100% Dim, DSI, Switch Dim, 1-10v.
- Emergency options: Standard 3hr, Self-Test or Dali addressable.
- Supplied with tamper proof screws.
- TX25 Torx screwdriver required for installation.*

Technical

Product	VR
Mounting type	Surface
Standard Lengths	650mm
	1200mm
	1500mm
Lumens	1562 - 7164 Lm
Efficacy	Upto 130 lm/W
Colour Temperature	Warm White (3K)
	Neutral White (4K)
Optics	Opal diffuser
Control	DALI 1-100%, DSI, 1-10V, Fixed output
Emergency	3 hour, DALI, Self-Test
Rendering	Ra80+
IP Rating	IP44
	IP65
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

* Not supplied with the luminaire

Luminaire Order Builder VR6 (650mm)

STEP 1. Select IP rating	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
44 IP44 rated	35 350mA 1562 Lm - 12.9W	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
65 IP65 rated	50 500mA 2168 Lm - 20.2W		4K 4000K	A1 DALI 1-100% Dim	Z Custom	ED DALI/EMPRO
	70 700mA 2924 Lm - 27.8W			A2 DSI		ES Self-Test
				A3 Switch Dim		
				A4 1-10v		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: VR6443504KAIWE3

VR12 (1200mm)

STEP 1. Select IP rating	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
44 IP44 rated	35 350mA 3443 Lm - 26.9W	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
65 IP65 rated	50 500mA 4820 Lm - 38.2W		4K 4000K	A1 DALI 1-100% Dim	Z Custom	ED DALI/EMPRO
	70 700mA 6379 Lm - 53.3W			A2 DSI		ES Self-Test
				A3 Switch Dim		
				A4 1-10v		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

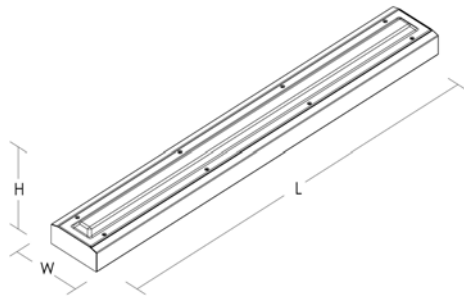
Example Code: VR12443504KAIWE3

Luminaire Order Builder VR15 (1500mm)

STEP 1. Select IP rating	STEP 2. Current	STEP 3. Optics	STEP 4. CCT	STEP 5. Control	STEP 6. Finish	STEP 7. Emergency
44 IP44 rated	35 350mA 4304 Lm - 33.1W	O Opal Diffuser	3K 3000K	FO Fixed Output	W RAL9016M	E3 Standard 3 Hour
65 IP65 rated	50 500mA 6025 Lm - 46.7W		4K 4000K	A1 DALI 1-100% Dim	Z Custom	ED DALI/EMPRO
	70 700mA 7974 Lm - 65.3W			A2 DSI		ES Self-Test
				A3 Switch Dim		
				A4 1-10v		

All electrical and optical data subject to $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: VR154435O4K1A1W3



Dimensions

L	W	H	Finish	Code	Colour Swatch
650	160	72	White	9016M	
1200	160	72	Custom*	Custom*	
1500	160	72			

All dimensions are measured in millimetres (mm)

*Custom Colours upon request

Installation tools required

Torx Screwdriver*



*Not supplied with the Luminaire



IP44
Protection against objects >1mm (small tools) and water spray from all directions.



IP65
Protection against dust (dust tight) and water jets from any angle (2.5mm nozzle)



Safety Class
Class 1 Safety chassis is connected to earth with a separate terminal, instead of via the mains cable



Warranty
5 year Guarantee

GENERAL INFORMATION.

P&A luminaires are designed and manufactured in compliance with EN 60598-1. Luminaires are supplied with light sources with a $\leq 50,000$ / 5 Year, return to base warranty. Products with anodized finishes could show different colour shades due to the industrial anodizing process.

P&A reserves the right to make any technical or formal alterations to its products without giving prior notice. Information concerning luminous flux/ power consumption are expressed in nominal values and are subject to changes due current supply.



Please check regularly on our website for current data, which are indicated on our technical sheets. For any other technical queries please contact the office.

Check out www.pandaprojects.co.uk for more



NOTES.



Product Literature.

v.02

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