



AE3LED/3M/W

Eagle 3-In-1 LED Exit Sign Maintained / Non-Maintained 2.5W White



Features

Modern, slim, 3-In-1 LED Exit Sign.

Self-test option.

One fitting that enables choice of three different mounting options :- suspension, recessed or side arm wall mounting.

Viewing distance 25 Metres.

General Information

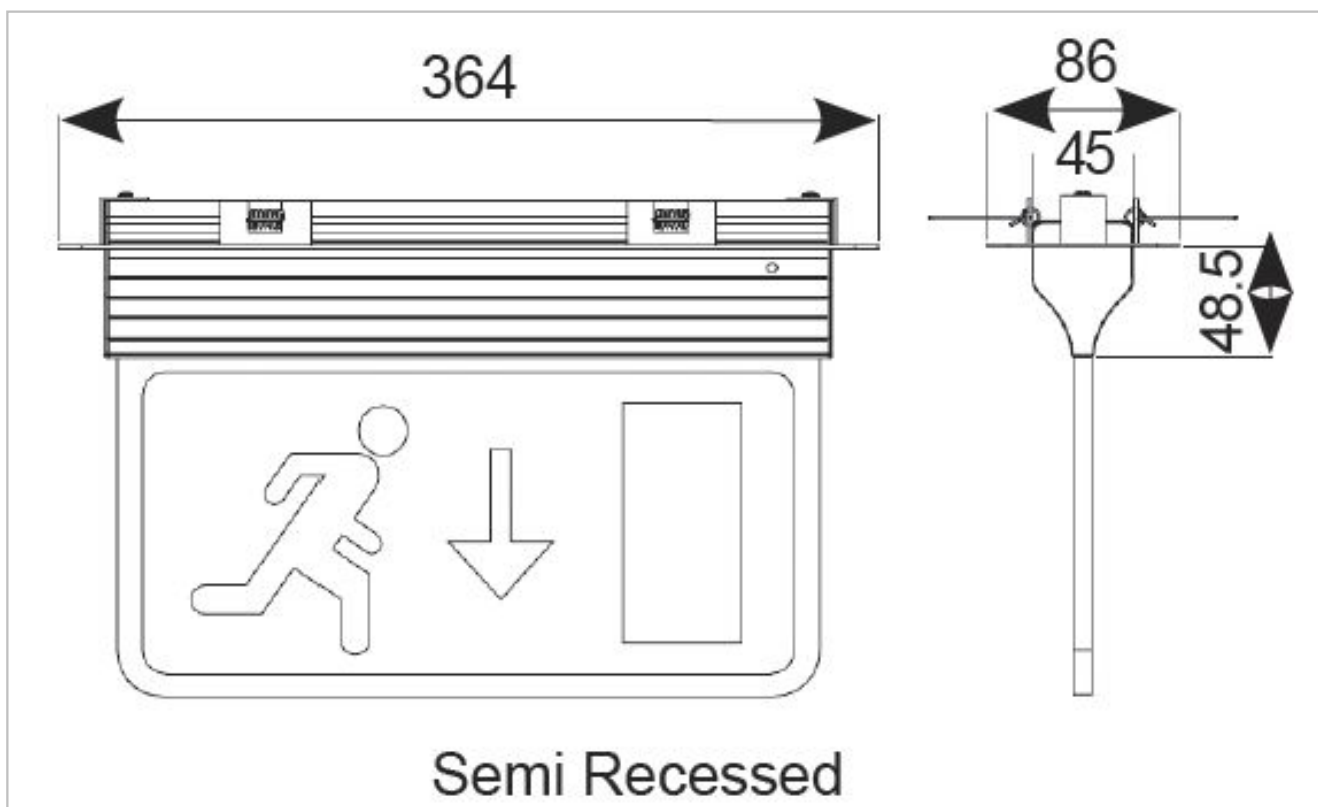
Lamp Type	LED
Colour / Finish	White
IP Rating	IP20
Class Protection	1
Internal / External	Internal
Warranty (Years)	3
CE Mark	Yes
Accessories	AE3LED/ALAR, AE3LED/L/AD, AE3LED/L/AU, ASBP/4

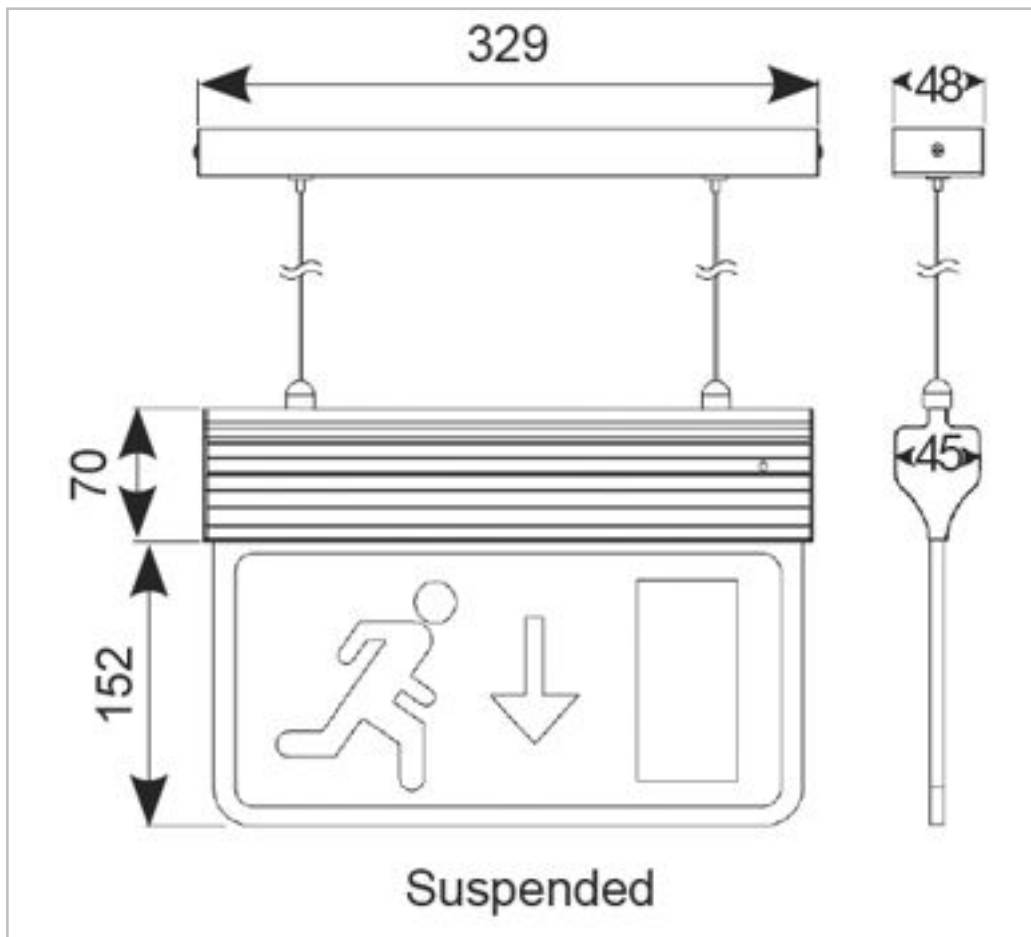
Technical Information

Wattage	2.5W
Lumens Delivered	21lm (Emergency)
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 45C°

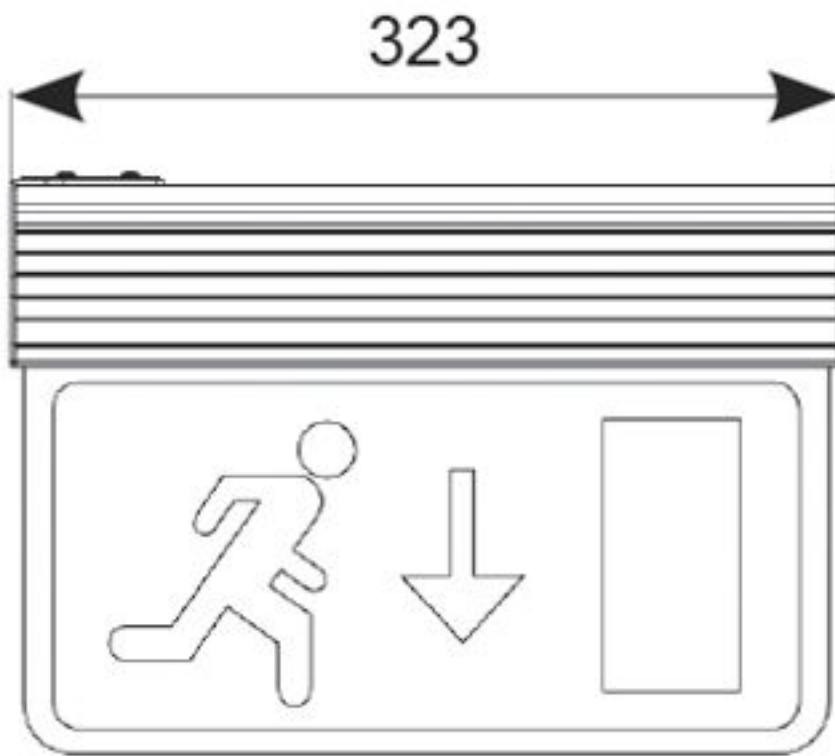
Technical Data - ETIM 6 - Emergency luminaire (EC001957)

With light source	Yes
Lamp power	2.5 W
Colour housing	White
Type of indicator	Single/double-sided
Voltage type	AC
Nominal voltage	230-230 V
Protection class	I
Degree of protection (IP)	IP20
Length	323 mm
Width	45 mm
Recognition distance	25 m
Colour of light	White
Colour temperature	6500-6500 K





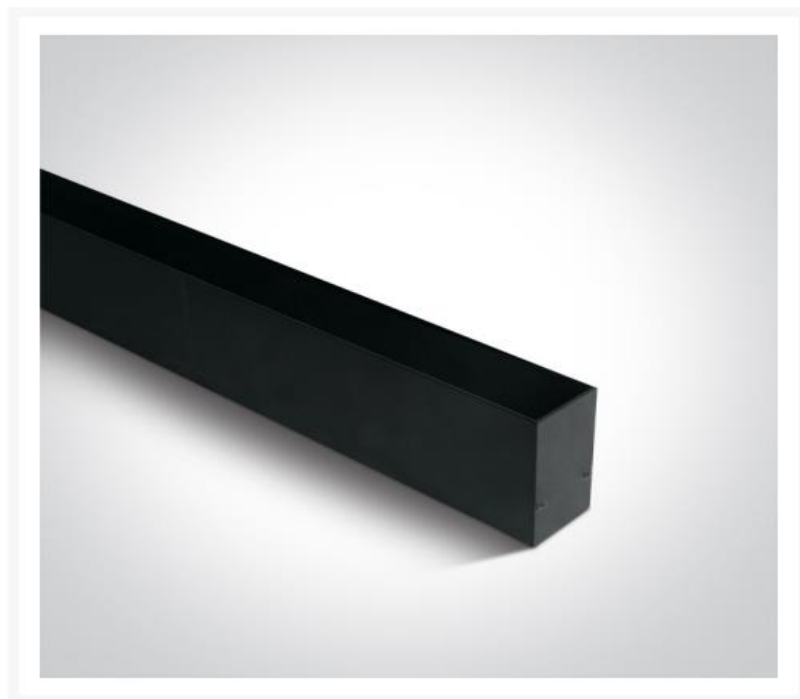
Datasheet generated from <http://www.electrika.com> last updated Tuesday, August 28, 2018 2:57:10 PM



Side Arm Wall Mounted

2 meter Black 48V Magnetic Track System c/w End Caps and Infills

Product Images



Short Description

2 meter black magnetic profile ON/OFF and DALI 48V.

Description

2 meter black magnetic profile ON/OFF and DALI 48V.

Additional Information

Product Code	42002/B
Product length	2m
Product width	45mm
Product height	75mm
Colour	Black

25W LED Linear Magnetic Track Light for 48V Track Lighting System

Product Images



Short Description

25W LED Linear Magnetic Track Light for 48V Track Lighting System

Description

25W LED Linear Magnetic Track Light for 48V Track Lighting System

Additional Information

Product Code	42100B/B/W
Product length	600mm
Product width	37mm
Product height	47mm
Beam angle	120 Degree
Lamp included	Yes
Colour temperature	3000K
Luminous value	2000lm
Max wattage	25W



Eyelid cover



Standard cover



45K

IP65



EM3

AMX

Wall Mounted

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

- Efficacy of up to 79.5 lm/W.
- Colour temperatures: 4500°k as standard.
- Colour Finishes: Black (9005) as standard. Optional White (9016) available on request.
- Optics: Opal Polycarbonate, with standard or eyelid cover options.
- Controls: Optional on/off microwave sensor available on request.
- Emergency options: Standard 3hr, Self-Test, Dali addressable.

Technical

Product	AMX
Mounting type	Wall mounted
Lumen	1400 – 1750 lm
Efficacy	Up to 79.5 lm
Colour Temperature	Day White (45K)
Optics	Standard Cover
Emergency	3 hour, DALI, Self-Test
Rendering	Ra80+
IP Rating	IP65
Safety Class	Class 1
MacAdam	SDCM 3
L70/B10	>50K

Luminaire Order Builder

AMX (Standard cover)

STEP 1. Select Operation	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Options	STEP 7. Emergency
MO Mains Only 19.4W - 1750 Lm	O Opal Diffuser	45K 4500K	FO Fixed Output	B RAL9005 Z Custom	MW Microwave Sensor	- Not Available
M3 Maintained 22W - 1750 Lm	O Opal Diffuser	45K 4500K	-	B RAL9005 Z Custom	MW Microwave Sensor	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test

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

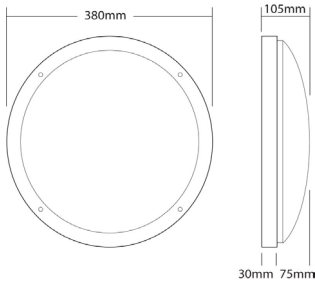
Example Code: AMXM3O45KBE3

AMX-EY (Eyelid version)

STEP 1. Select Operation	STEP 2. Optics	STEP 3. CCT	STEP 4. Control	STEP 5. Finish	STEP 6. Options	STEP 7. Emergency
MO Mains Only 18.8W - 1400 Lm	O Opal Diffuser	45K 4500K	FO Fixed Output	B RAL9005 Z Custom	MW Microwave Sensor	- Not Available
M3 Maintained 21.4W - 1400 Lm	O Opal Diffuser	45K 4500K	-	B RAL9005 Z Custom	MW Microwave Sensor	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test

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

Example Code: AMXEYM3O45KBE3



Dimensions

DØ	H	RAL	Code	Colour Switch
380	105	Black	9005	
		Custom*	Custom*	

All dimensions are measured in millimetres (mm)

*Custom Colours upon request

IP65

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

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

5 Year
Guarantee

Warranty
5 year Guarantee



TRK-EM

Track

TRK-EM is a discreet track mounted emergency downlight luminaire, Compatible with global trac and Eutrac. With built in charge indicator, available in variety of optics, to suit your needs.

- Colour temperature: 4500°k.
- Non Maintained as standard.
- Colour Finishes: White, Black as standard.
- Lithium Iron Phosphate (LiFe) Battery.
- Emergency options: Standard 3hr, Self-Test, or DALI addressable.

Technical

Product	TRK-EM
Mounting type	Track
Length	415mm
Colour Temperature	Cool White (5k)
Optics	Corridor Open Area
Emergency	3 hour, DALI, Self-Test
Rendering	Ra80+
IP Rating	IP20
Safety Class	Class 1
LED Lifetime	50K

PA TRK-EM

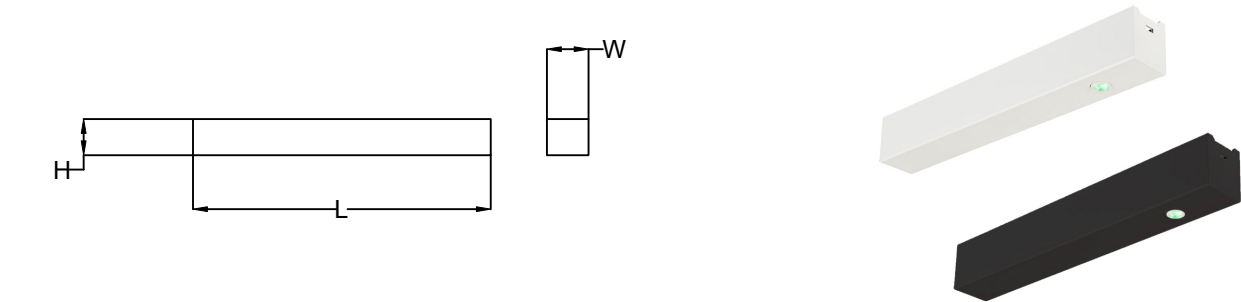
Luminaire Order Builder

TRK-EM

STEP 1.	STEP 2.	STEP 3.	STEP 4.	STEP 5.
Operation	Optics	CCT	Finish	Emergency
NM Non Maintained 3W - 190 Lm	OA Open Area Lens C Corridor Lens	5K 5000K	W White B Black	E3 Standard 3 Hour ED DALI/EMPRO ES Self-Test

All electrical and optical data subject to ±10% tolerances.
Values based on 4500K Colour temperature.

Example Code: TRKEMNMOA5KWE3



Dimensions			Finish		
L	W	H	RAL	Code	Colour Swatch
415	58	50.4	White	W	
			Black	B	

All dimensions are measured in millimetres (mm)

Emergency spacings

TRK-EM Corridor area lens		
0.5 lux min Open area	1 lux min Escape	
Mounting Height (A)	Fitting to Fitting (B)	Fitting to Fitting (B)
2.0	n/a	10
2.5	n/a	11
3.0	n/a	12

TRK-EM Open area Lens		
0.5 lux min Open area	1 lux min Escape	
Mounting Height (A)	Fitting to Fitting (B)	Fitting to Fitting (B)
2.0	7.9	6.8
2.5	8.8	7.9
3.0	9.4	9.1

All dimensions shown are in metres.

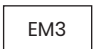
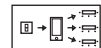
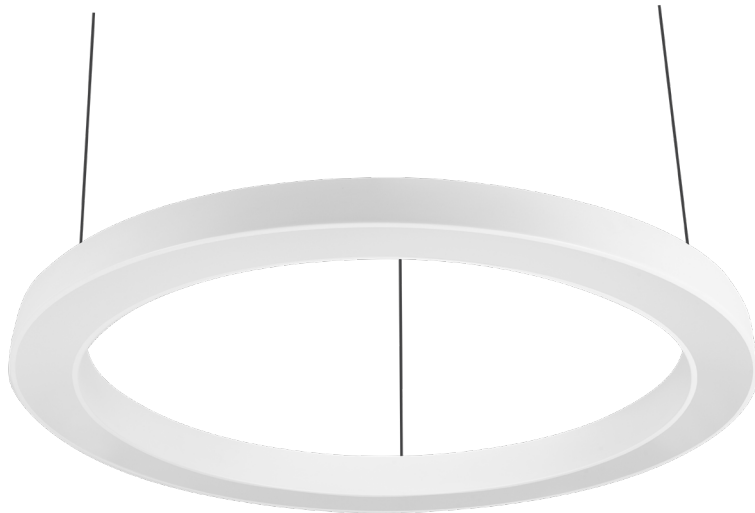
IP20

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



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 or DALI addressable, 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 2
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: POLO7WS35DO4KAIWE3

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: POLO7WS35DIO4KAIWE3

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 5592Llm - 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 7381Llm - 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 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: 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 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: 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 $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature, Opal Diffuser and White housing.

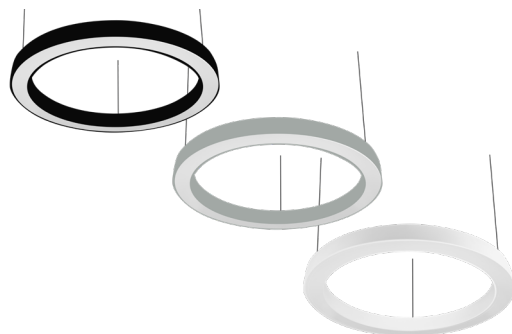
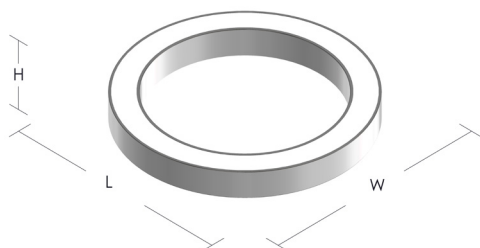
Example Code: POLO15WS35DO4KA1WE3

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 $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature, Opal Diffuser and White housing.

Example Code: POLO15WS35DIO4KA1WE3



Dimensions

L	W	H	Finish	Code	Colour Switch
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*	85			

All dimensions are measured in millimetres (mm)

*Custom lengths upon request

Finish

Ancillaries

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



Distribution Types

Direct	Direct/Indirect
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IP20

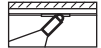
IP20
Protection of fingers against access to hazardous parts, and protection against objects larger than 12.5mm



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



Warranty
5 year Guarantee



3K

4K

IP20



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

P&A TL-TRK70

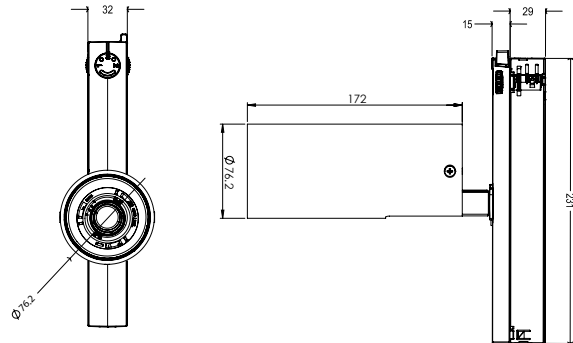
Luminaire Order Builder

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	Finish		
76.2	172	RAL	Code	Colour Switch
		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 I Safety: chassis is
connected to earth with a
separate terminal, instead of via
the mains cable



Warranty
5 year Guarantee



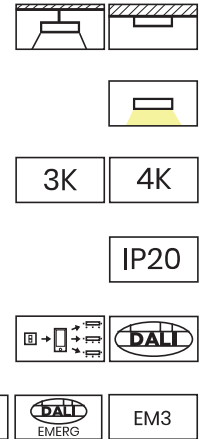
Crown House, Plantation Rd, Burscough, Lancashire, L40 8JT
01704 891333
sales@pandaprojects.co.uk
www.pandaprojects.co.uk

Datasheet Code: PA-10791-10



BS EN60598-1:2015
ISO 9001 Certification





TL

Surface or Suspended

TL 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°, 20°, 30°, 45° 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.
- Standalone Emergency options available*.
- Emergency options: Standard 3hr, Self-Test, Dali addressable or 3hr Dali Wireless Sentinel**.

Technical

Product	TL90
	TL125
	TL200
Mounting type	Surface
	Suspended
Diameter	90mm
	125mm
	200mm
Lumens	929 – 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, 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

* Standalone emergency on available for TL90 & TL125.

** Fully intergrated emergency on available in TL200 only.

*** 10° and 45° Only available in the TL200



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	
WS Wire suspended	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

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	
WS Wire suspended	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

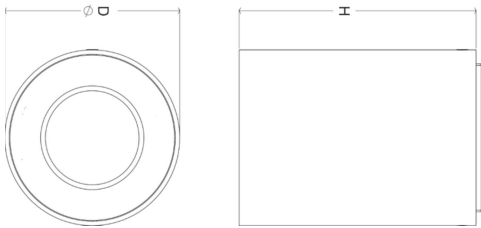
Luminaire Order Builder

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
WS Wire suspended	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: TL200SF50I04KAIWED



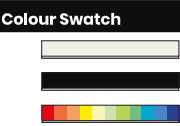
Dimensions

D Ø	H
90	220
125	172
200	220

All dimensions are measured in millimetres (mm)

Finish

RAL	Code
White	9016M
Black	9005
Custom*	Custom*



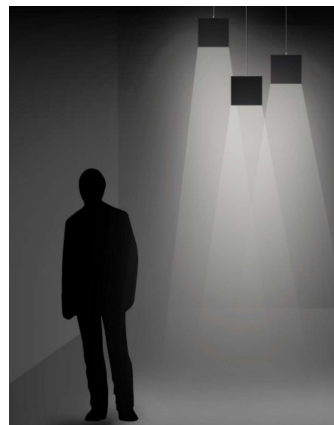
*Custom Colours upon request

TL-WS Ancillaries

Wire Suspensions		Code	3m Wire suspension kit	Decorative Ceiling Rose
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.				
TL Snoot				
RAL9005 Black Snoot		Supplied as standard		
RAL9016 White Snoot		Available upon request		

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 con-
nected to earth with a separate
terminal, instead of via the
main cable



Warranty
5 year Guarantee



ACOLED2/CW

Comfort LED Downlight Cool White 19W White



Features

Economic high performance IP44 downlight.

Deep cut-off angle for glare control and comfort.

Osram LED technology and enhanced diffuser design for outstanding uniformity.

Downlight design allows installation into existing hole-cut outs from 200mm to 220mm.

Polycarbonate housing with unique thermal management for durability and optimum lifespan.

LED lifespan L70 50,000 hours.

Dimmable and Emergency options.

General Information

Lamp Type	LED
Colour / Finish	White
IP Rating	IP44
Class Protection	2
Internal / External	Internal
Surface / Recessed / Suspended	Recessed
Warranty (Years)	5
CE Mark	Yes
Diameter (mm)	230
Height (mm)	100

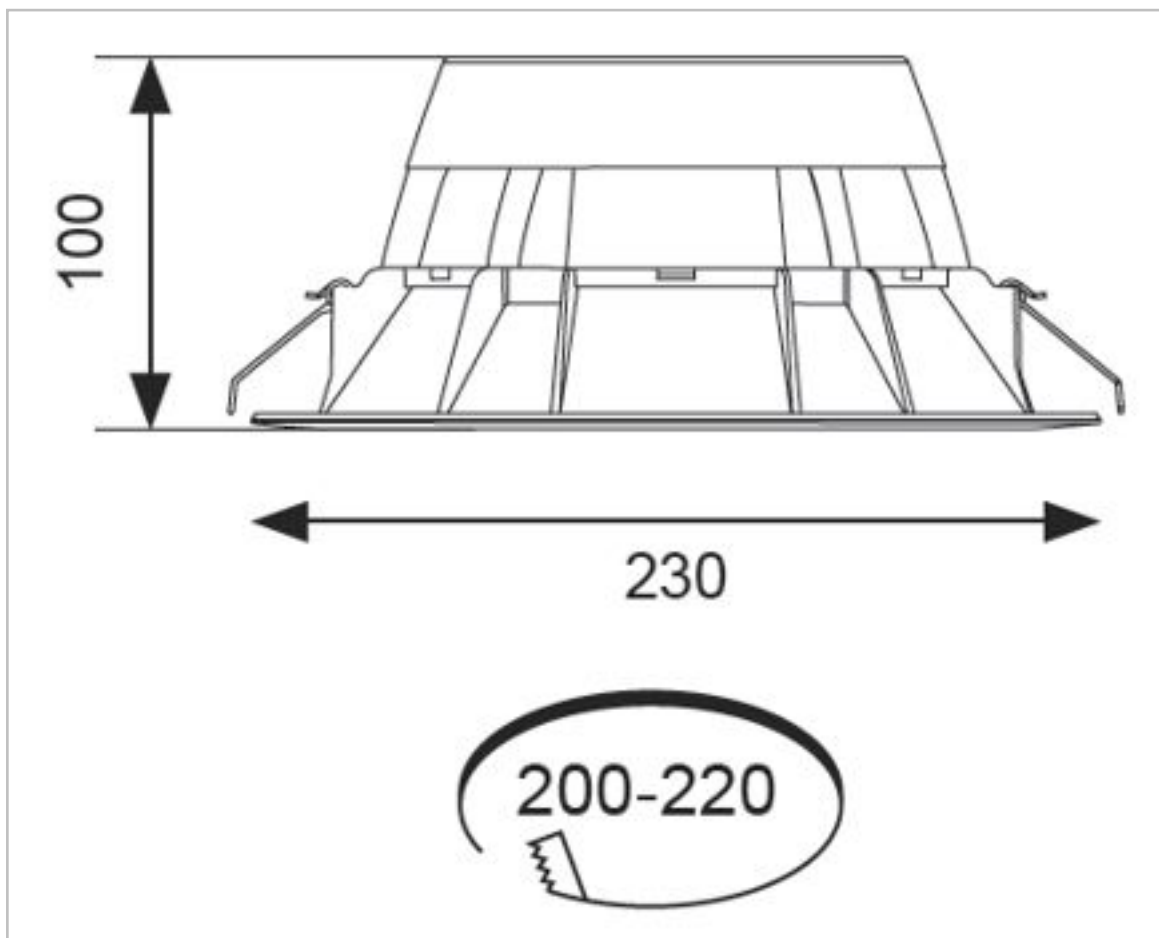
Technical Information

Wattage	19W
Lumens Delivered	2350lm
Lm/W	124lm
Beam Angle	55
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C

Technical Data - ETIM - Downlight/spot/floodlight (EC001744)

Suitable for surface mounting	No
Suitable for built-in mounting	Yes
Suitable for wall mounting	No
Suitable for suspended mounting	No
Suitable for ceiling mounting	Yes
Suitable for traverse mounting	No
Suitable for pedestal/floor mounting	No
Suitable for light-track mounting	No
Adjustability	Not adjustable
With movement sensor	No
With light sensor	No
With light source	Yes
Suitable for number of lamps	1
Material housing	Plastic
Colour housing	White
Nominal voltage	230-230 V
Control gear included	Yes
No dim function	Yes
Beam angle	Wide beam 41-80°
Degree of protection (IP)	IP44
Protection class	II
Max. system power	19 W
Colour of light	White
Colour temperature	4000-4000 K
Colour rendering index CRI	80-89

Rated luminous flux acc. IEC 62722-2-1	2350 lm
Lamp efficacy	124 lm/W
Width	230 mm
Height/depth	100 mm



Datasheet generated from <https://onetimepim.com> last updated Monday, November 4, 2019 1:38:27 PM

DOWNLIGHTS

ROBUS®

ULTIMUM FIRE RATED DOWNLIGHT IN FIXED & SELECTABLE CCT's PLUS A WIFI CONTROLLABLE & TUNABLE VERSION USING THE ROBUS CONNECT APP

The Ultimium is "dimmable as standard", Low Glare, IP65 and Fire rated. The range includes 5W, with higher light output than halogen or LED "lamp in a can", 7W for areas that need that little extra light, in fixed or selectable CCT for an alternative CCT where use of the lit space might change. Ultimate controllability is provided by the Robus Connect Wi-Fi 7W version where tuneable CCT, dim level, grouping and scene settings can be achieved. A separate Product Information Document is available for this version with performance data included overleaf



Applications:

- All rooms in the home
- Retail shops
- Complimentary lighting in offices
- Hotels & Function rooms
- Restaurants, Bars, Clubs and other entertainment venues
- Schools
- Wet rooms and wash down areas



Construction:

Polycarbonate trim and LEDchroic lens optic
Die-cast aluminium heatsink
Pressed steel and polycarbonate body
Spring steel ceiling fixing springs with PVC protectors

Features and Benefits:

- The range provides a choice of lumen package for a "one for one" retro-fit replacement of halogen or, with higher output, quantity optimisation for new installations

The Ultimium has a choice of fixed or selectable Colour Temperature depending on whether the use of the lit space may change in the future

[\[A Robus Connect 7W Wi-Fi controllable version is also available\]](#)
- The fitting utilises strong padded spring-steel ceiling retaining clips which pull the fitting tight to the ceiling with no unsightly gaps

A traditional Aluminium heat sink provides excellent heat management for cool running and long LED life

White polycarbonate trim is standard with a choice of accessory trim colours to match or contrast decor

The Robus precision LEDChroic lens provides a low glare, wide beam angle output with gentle edge fade for superb area coverage and even uniformity without dark areas
- It has a very low profile body design so is ideal for installations with shallow void spaces or where other services or ducting are installed
- It has a 3 pole connector with two push-in spring terminals per pole and cable restraint so provides:
 - A safe, fast and simple push-in connection of the supply
 - No hot spots or failures due to poor or loose connections
 - Loop in/out facility to subsequent fittings
- The Ultimium is IP65, Fire, Moisture and Acoustic rating tested which means it complies with the Buildings Regulations for domestic or commercial installations and the same fitting can be used throughout the building, including in wet areas, for a common aesthetic
- The design utilises high quality, independently tested LM80 SMD or COB LED's which show the fittings to have:

High initial light output comparable to LV or mains voltage Halogen for maximum fitting utilisation

Low lumen depreciation over time for long effective Rated LED life without inconvenient lamp changes

Low Colour Temperature and CRI shift for life long light uniformity and quality
- A high efficiency integral State of the Art electronic dimmable driver is used which is compatible with many approved trailing and leading edge dimmers for effective mood or task lighting control.

It also provides a stable drive current for optimum LED light output and long life
- Using Solid State technology with no heat filaments or electrodes means failures don't occur due to cold to hot to cold temperature cycles or building vibrations

It also provides "Instant On" so can be used with PIR's, microwaves or photocells

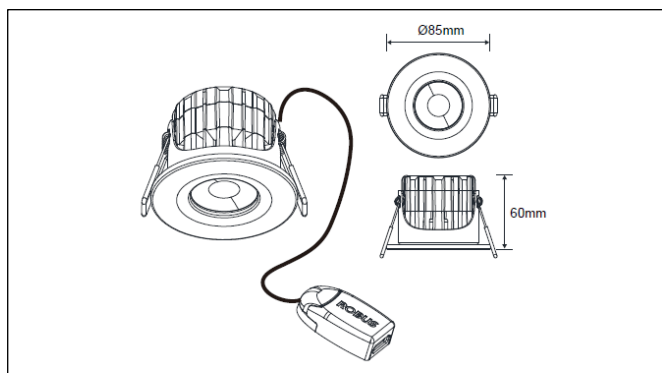
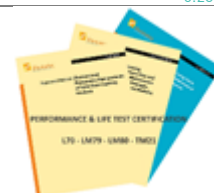
DOWNLIGHTS

ROBUS®

ULTIMUM FIRE RATED DOWNLIGHT IN FIXED & SELECTABLE CCT PLUS A WIFI CONTROLLABLE & TUNABLE VERSION USING THE ROBUS CONNECT APP

ROBUS CONNECT WIFI
CONTROLLABLE VERSION

Product Code:	RUL0530-01	RUL0540-01	RUL05X0-01	RUL0730-01	RUL0740-01	RUL07X0-01	RUL070WIFI-01
Comparable to:	50W Mains	50W Mains	50w Mains	50W LV halogen	50W LV halogen	50W LV halogen	50W LV Halogen
Total Power (W):	4.7	4.7	4.7/4.6/4.9	6.7	6.7	6.8/6.6/6.8	7.1 - 7.5
Total Light Output (lm):	410	440	400/450/420	630	660	520/610/550	540 - 630
Efficacy (lm / cctW):	87	94	86/99/88	94	99	77/94/83	73 - 90
Rated LED Life (hrs):	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Warranty (yrs):	3	3	3	3	3	3	3
Illuminance at 1m (lx):	390	420	280/310/290	750	770	670/700/570	480 - 570
Beam Angle (deg):	60	60	60	60	60	60	60
CCT (K):	3,000	4,000	3,000/4,000/6,000	3,000	4,000	3,000/4,000/6,000	2,700 - 6,500
CRI (Ra):	80	80	80	80	80	80	80
Ingress Protection (IP):	65	65	65	65	65	65	65
Operating Temperature (°C):	-20 ≤ Ta ≤ +40	-20 ≤ Ta ≤ +40	-20 ≤ Ta ≤ +40	-20 ≤ Ta ≤ +40	-20 ≤ Ta ≤ +40	-20 ≤ Ta ≤ +40	-20 ≤ Ta ≤ +40
Power Factor (PF):	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Diameter (mm):	85	85	85	85	85	85	85
Cut Out (mm):	72	72	72	72	72	72	72
Depth (mm):	60	60	60	60	60	60	60
Projection (mm):	3	3	3	3	3	3	4
Box Qty:	1	1	1	1	1	1	1
Weight (kg):	0.23	0.23	0.23	0.25	0.25	0.25	0.28



Accessories:

RULTRIM-03	ULTIMUM TRIM, CHROME
RULTRIM-10	ULTIMUM TRIM, MATTE BLACK
RULTRIM-13	ULTIMUM TRIM, BRUSHED CHROME

Standards & Approvals:

Complies with: EN 60598-1, EN 60598-2-2, EN 62471, EN 62493, EN 55015, EN 61000-3-2, EN 61000-3-3, BS 476-21

Cone Illuminance Diagram:

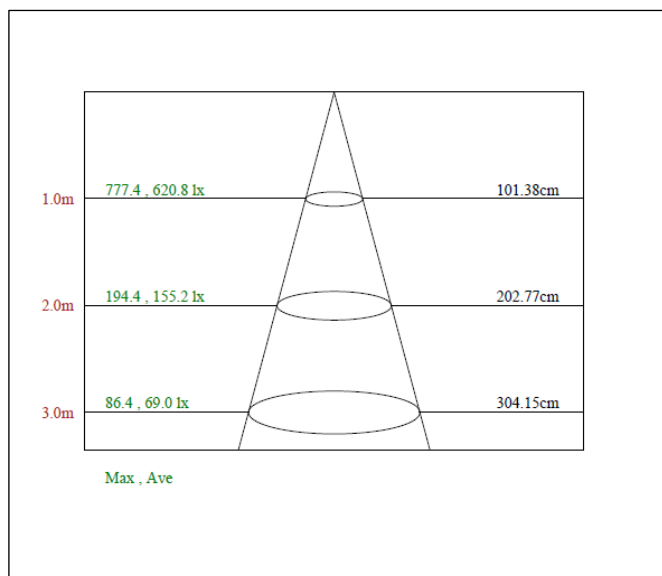
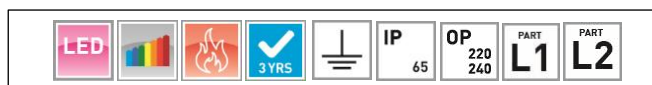


Diagram for RUL0740-01 in 4,000K. Other diagrams available on request



Polar Intensity Diagram:

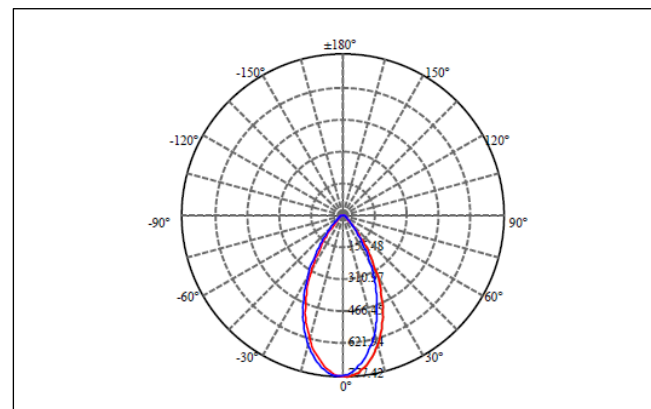
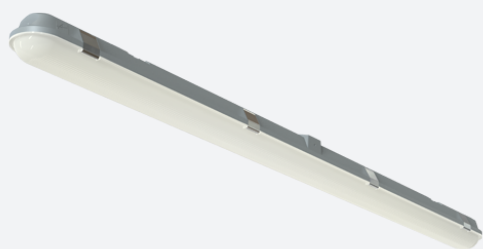


Diagram for RUL0740-01 in 4,000K. Other diagrams available on request



PLEASE NOTE: INFORMATION IN THIS DOCUMENT MAY
BE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

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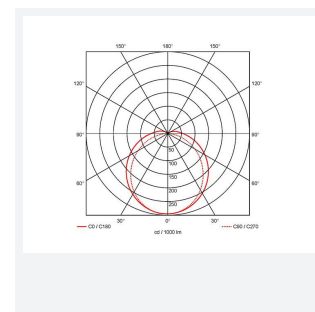
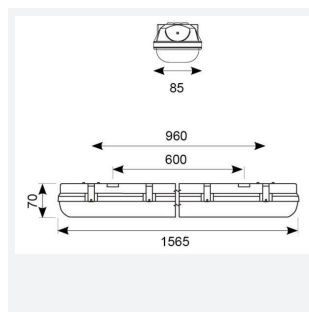
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Tornado PRO

Tornado PRO 1500mm Digital Dimming

Code: ATORPLED5/DD/MWS

Category	Battens and Weatherproofs
Application	Ancillary, Commercial, Education, Healthcare, Hospitality, Industrial, Retail
Specification	Performance



PRODUCT FEATURES

- Ultra slim IP65 LED robust non-corrosive batten ideal for industrial applications and ancillary areas
- Unique base design caters for multiple installation methods
- Quick release LED array / gear tray assembly provides the installer the means to faster installation / maintenance
- Self-test emergency option with Li-ion battery technology, reducing charge time and running costs
- High efficiency up to 161 Lm/W
- Installer friendly embedded features aid accurate and fast installation for any application
- Fast latching / permanently located stainless steel side clips ensure a quick and secure connection
- High output 5ft options available

GENERAL INFORMATION

Wattage	29W
Lumens Delivered	3200lm
Lm/W	111lm/W
Beam Angle	100/120
CRI	80
CCT	4000K
Input	220/240V
Operating Temp	-10°C - 40°C
SDCM	6

TECHNICAL INFORMATION

Light Source	LED
Colour / Finish	Grey
IP Rating	IP65
Class Protection	1
Internal / External	Internal / External
Surface / Recessed / Suspended	Ceiling, Suspended
Lumen Depreciation	L80 54,000h
Warranty (Years)	7
CE Mark	Yes
Height	70 mm
Accessories	ATORPLED/SSKIT/SINGLE, ATORPLED/SSKIT/TWIN





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Ansell Lighting

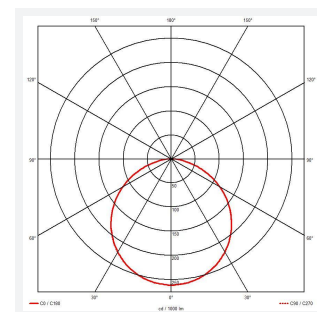
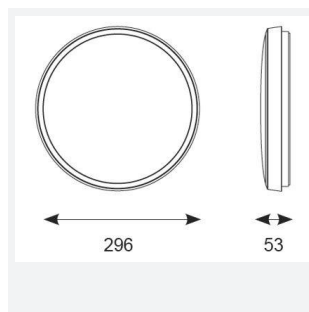
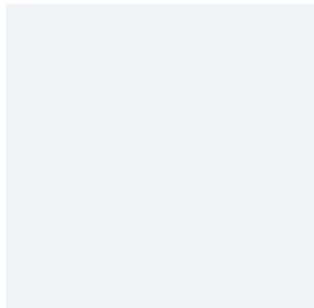
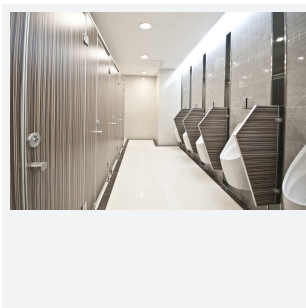


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Gamma

Gamma CCT Microwave Sensor Emergency Code: AGAMLED/CCT/MWS/M3

Category	Bulkheads
Application	Ancillary, Commercial, Hospitality, Residential, Retail
Specification	Performance



PRODUCT FEATURES

- Ultra slim modern polycarbonate wall/ceiling light suitable for education and residential applications and ancillary areas
- CCT selectable between 3000K and 4000K
- Microwave sensor set to 15 minutes at 3 metres (non-adjustable)
- /MWS and MWS/M3 has integral photocell isolation switch
- Matt white finish to body and diffuser with optional chrome trim ring
- Rear fixing bracket and terminal housing for ease of installation
- /MWS and /MWS/M3 versions operate as Primary and can be used in conjunction with standard Secondary
- Non-dimmable

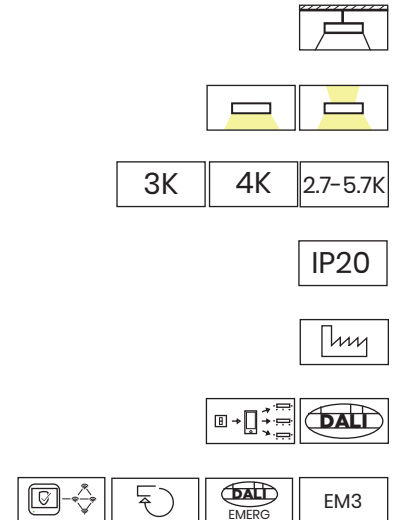
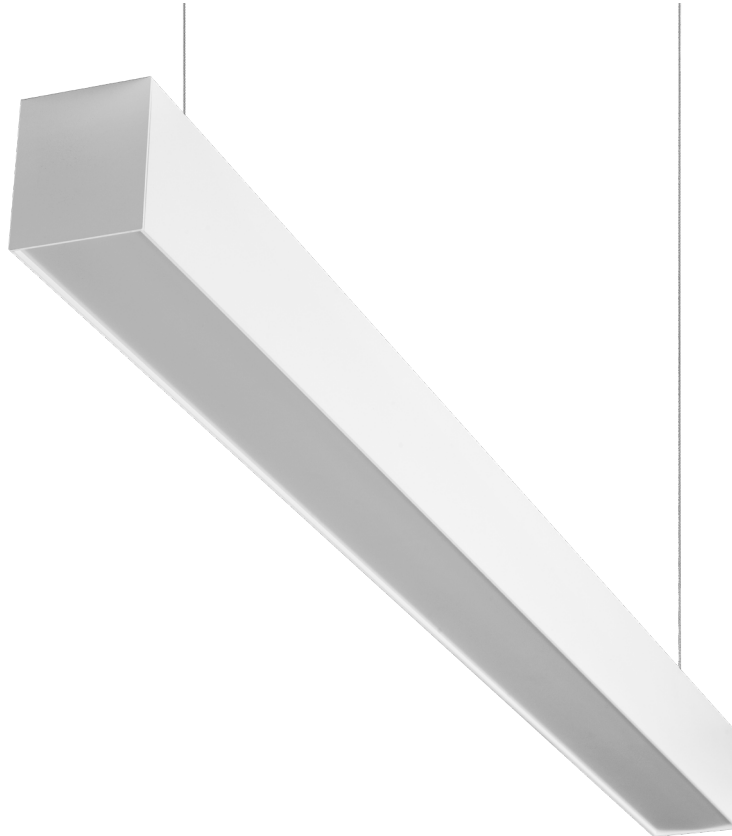
GENERAL INFORMATION

Wattage	17W
Lumens Delivered	1800lm (4000K)
Lm/W	106lm/W (4000K)
Beam Angle	110
CRI	80
CCT	3000/4000K
Input	220/240V
Operating Temp	5°C - 35°C
SDCM	6

TECHNICAL INFORMATION

Light Source	LED
Colour / Finish	Matt White
IP Rating	IP54
Class Protection	2
Internal / External	Internal / External
Surface / Recessed / Suspended	Ceiling, Wall
Lumen Depreciation	L70 54,000h
Warranty (Years)	3
CE Mark	Yes
Diameter	296 mm
Accessories	AGAMLEDBZ/CH





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 $\pm 10\%$ 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 $\pm 10\%$ tolerances.
Values based on 4000K Colour temperature.

Example Code: SS70WS15DIO11504KA1WE3



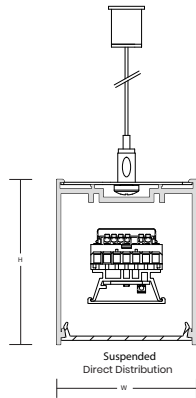
Crown House, Plantation Rd, Burscough, Lancashire, L40 8JT
01704 891333
sales@pandaprojects.co.uk
www.pandaprojects.co.uk

Datasheet Code: PA-10453-0

UK
CA BS EN60598-1:2015
ISO 9001 Certification



P&A SubSpace 70



Dimensions

L	W	H	Finish	Code	Colour Switch
870	73	85	White	9016M	
1150	73	85	Black	9005	
1430	73	85	Silver	9006	
1710	73	85	Custom*	Custom*	
1990	73	85			
2270	73	85			
2550	73	85			
2870	73	85			
Custom*	73	85			

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	CR75 Decorative Ceiling Rose***
3m Wire suspension kit	SS70-WS-3M			
Custom length (1m increments)	SS70-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*** (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).

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 I 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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