

POLAR

Linear

Crushing the cave effect

POLAR

Direct

The Polar's three fitting rotation and indirect lighting options allow for a broad spread of light to dance off all four corners of your meeting rooms, corridors and stair wells.

Physical

Dimensions

77mm W x 76mm H

Finish Options

Powdercoat Black / White / Silver

Other powdercoat colours available upon request

Environmental

IP20

Electrical

Control Gear

Integrated

Power Consumption Range

5.0 to 42.5 W/m

Luminous Efficacy

Up to 126 Lm/W @ 1970 lm/m, 16.1 W/m, CRI 80+,

T_a 65°C, Diffused

Lumen Maintenance

72,000 hours (L80/F10 at T_a 25°C)

Dimming Options

Fixed Output

1 – 10V

DSI

SwitchDIM

DALI

Control Options

MasterConnect profile limited to external sensor

Casambi

Weight

3.0 kg/m

Mounting Options

Wire Suspended

Rod Suspended

Ambient Operating Temperature

T_a 0° to 45°C

Photometrics

Flux Range

640 to 4990 Lm/m @ 4000K, CRI 80+,

T_a max 45°C, Diffused

Typical Lumen Packages

1250 lm/m, 10.2 W/m

1720 lm/m, 14.7 W/m

2030 lm/m, 16.1 W/m

2500 lm/m, 20.3 W/m

2980 lm/m, 25.1 W/m

Other lumen packages available upon request

Distributions

Diffused

Indirect available *refer to pg 2*

Light Source

LED Boards

Correlated Colour Temperature

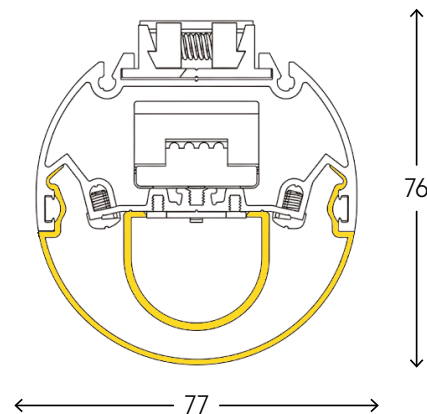
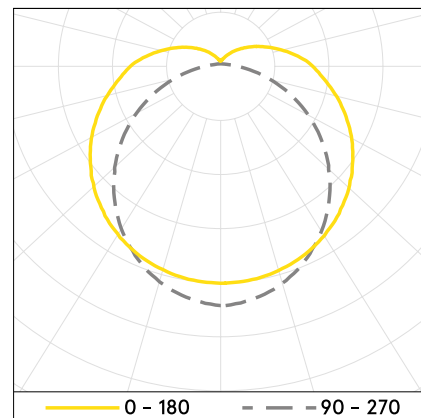
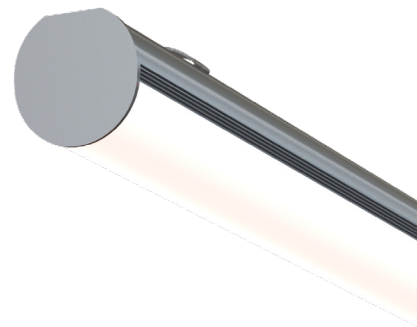
3000K/ 4000K/ 5000K

Tuneable (2700 – 6500K)

RGB, RGBW Tape available

Colour Rendering Index

80+, 90+ available



Optical and Electrical values are subject to a tolerance of +/- 10%.

Lumen Output values are "delivered" lumens, which take into consideration losses in the diffuser. These values are more relevant than source lumens, as luminaire efficiency is accounted for. Values given above are based on 4000K and T_p of 65°C

All product specifications are correct at time of printing, and subject to change without notice.

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POLAR

Indirect

The Polar's three fitting rotation and indirect lighting options allow for a broad spread of light to dance off all four corners of your meeting rooms, corridors and stair wells.

Physical

Dimensions

77mm W x 76mm H

Finish Options

Powdercoat Black / White / Silver

Other powdercoat colours available upon request

Environmental

IP20

Electrical

Control Gear

Integrated

Power Consumption Range

Indirect Only

5.0 to 20.3 W/m

Direct and Indirect Combined

10.0 to 39.1 W/m

Luminous Efficacy *indirect*

Up to 135 Lm/W @ 2180 lm/m, 16.1 W/m, CRI 80+,

T_a 65°C, Diffused-Up

Lumen Maintenance

72,000 hours (L80/F10 at T_a 25°C)

Dimming Options

Fixed Output

1 - 10V

DSI

SwitchDIM

DALI

Control Options

MasterConnect *profile limited to external sensor*

Casambi

Weight

3.0 kg/m

Mounting Options

Wire Suspended

Rod Suspended

Ambient Operating Temperature

T_a 0° to 45°C

Photometrics

Flux Range

Indirect Only

690 to 2680 Lm/m @ 4000K, CRI 80+,

T_a max 45°C, Diffused-Up

Typical Lumen Packages

1340 lm/m, 10.2 W/m

1850 lm/m, 14.7 W/m

2180 lm/m, 16.1 W/m

2680 lm/m, 20.3 W/m

Direct and Indirect

Direct: 640 to 2980 Lm/m

Indirect: 690 to 1900 Lm/m

Distributions

Diffused-Up

Light Source

LED Boards

Correlated Colour Temperature

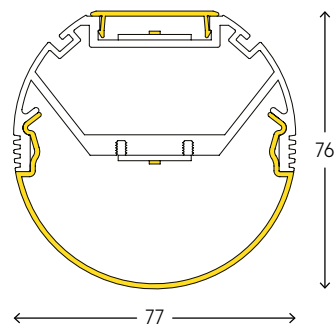
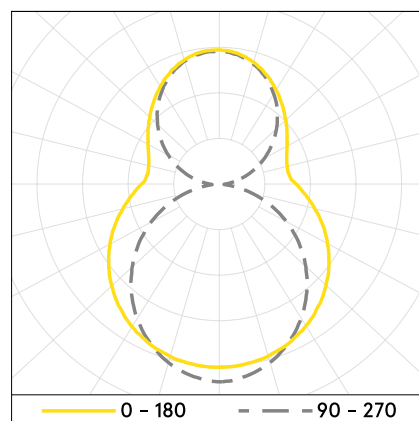
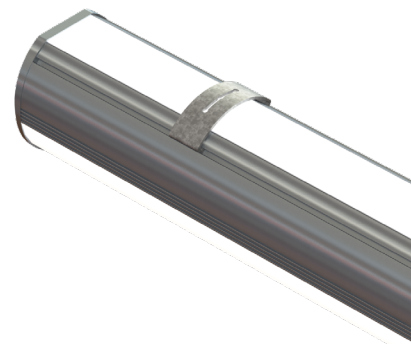
3000K/ 4000K/ 5000K

Tuneable (2700 - 6500K)

RGB, RGBW Tape available

Colour Rendering Index

80+, 90+ available



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Options



A lighting management ecosystem to allow businesses to easily optimise lighting comfort, save energy, gain valuable data insights and cost effectively scale to their environment as business needs evolve.

Additional Info

Warranty
Product
5 Years
Terms and conditions apply

MacAdam Ellipse
3SDCM

Colour Rendering Index refer to Figure 1
 R_a 91
The CRI is a measure of the ability of a light source to accurately portray the colours of various objects in space. Originally consisting of 8 sample colours, the CRI now extends to 15 samples. R9 to R15 are special colours of high chroma; R9 evaluates red, whilst R15 is for skin tones.

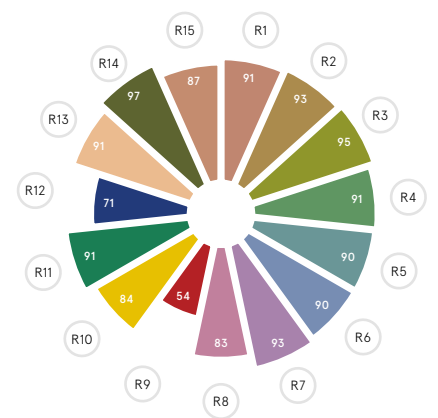


Figure 1- Colour Rendering Index for 4000K, 90CRI

TM30 refer to Figure 2
 R_f 90
 R_g 99
IES TM-30 provides further metrics to assist in tailoring your lighting solution. The measured values quantify colour rendering in three main areas; observation (colour fidelity (R_f)), intensity (colour gamut (R_g)) and shift in intensity (colour vector graphics).

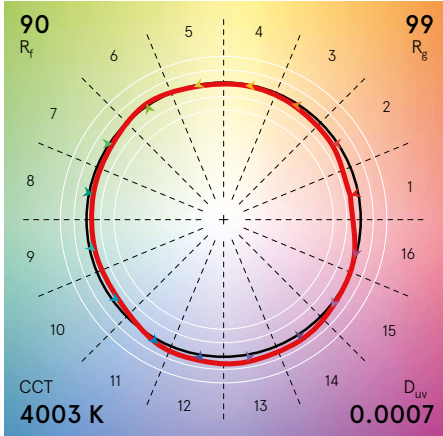


Figure 2 - Colour Vector Graphics for 4000K, 90CRI

Color Quality Scale refer to Figure 3
 Q_a 90
The CQS is a metric which involves several facets of colour quality, including colour rendering, chromatic discrimination and observer preferences. The scale uses fifteen highly saturated colours, chosen as they more accurately span the range of common object colours.

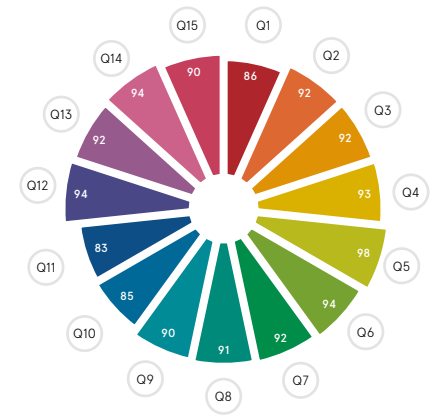


Figure 3 - Colour Quality Scale for 4000K, 90CRI

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Specification Statement

Use the below statement for your schedules, specifications, or quotes.

Guide: Copy and paste into your document.
Remove unwanted options in Green.
Add custom data points where noted in Blue.

POLAR with 5 Year Product Warranty, as manufactured by mLight Pty Ltd. Product complete with LED boards with 3 SDCM, integrated (DALI / Fixed Output / 1-10V / DSI / SwitchDIM / Casambi / MasterConnect Ecosystem) control gear, supports for (Wire Suspended / Rod Suspended). Dimensions 77 mm wide x 76 mm tall x (xxxx) mm long, including endcaps. Finished in (Black PC / White PC / Silver PC / Custom Colour), IP 20 rated, Direct Light with diffused distribution, (xxxx) Lm/m, (xxxx) W/m, Indirect Light with diffused-up distribution, (xxxx) Lm/m, (xxxx) W/m, L80 F10 72,000 hrs at Ta 25°C. MasterConnect shall be installed as per specification. Installation as per MLight recommendations.

Coding System

Use the below to code your solution for ease of quoting and discussing with our team.
Start with POLAR and then follow on with additional codes.

EG: POLAR-RS-B-9-30-DIF-2800-D-UP-1340-V-PH

Mounting	Code	Finish	Code	CRI	Code	CCT / Light	Code	Direct Distribution	Code	Direct Lumen Package	Code	Indirect Distribution	Code	Indirect Lumen Package	Code	Dimming Option	Code	Sensors	Code
Rod Suspended	RS	Black PC	B	80+	8	3000 K	30	Diffused	DIF	1250	1250	Diffused-Up	D-UP	1340	1340	DALI	DALI	Phillips (Default)	PH
Wire Suspended	WS	White PC	W	90+	9	4000 K	40			1720	1720			1850	1850	Fixed Output	FO	Third Party*	TP
		Silver PC	S			5000 K	50			2030	2030			2180	2180	1-10V	V		
		Custom Colour	C			Tuneable	TU			2500	2500			2680	2680	DSI	DSI		
						RGB	RGB			2980	2980					SwitchDIM	SD		
						RGBW	RGBW									Casambi	CAS		
																Master-Connect	MT		

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INTEGRATE LIGHT WITH LIFE, BEAUTIFULLY
