Raylan

RECESSED SPOTLIGHTS | PI-LED SERIES

Discreet recessed spotlight suitable for low ceilings or for changing rooms where you need precise lightning effects. The spotlight smoothly blends into the general interior design and highlights the architectural features, providing a subtle yet precise illumination. Round diffusor for brilliant accent lighting in the shops and retail sectors.

PI-LED - Combines variable white light and light of the RGB color system in one single light source. It can vary the color temperature between 2700K - 6500K along Planckian curve in the course of a day.

Raylan spotlight come in several series, with various add-on and controls:

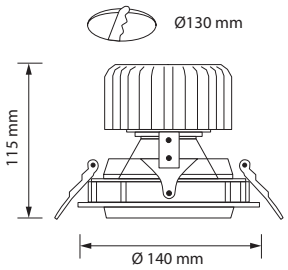
- Raylan Non-DALI – the standard for any project in the retail and offices sectors
- Raylan DALI – with DALI controls for dimming
- Raylan Non-DALI EM – with emergency lighting kit
- Raylan DALI EM – with both dimming and emergency kit
- Raylan PI-LED – simulates the spectral quality of natural daylight over the entire day.

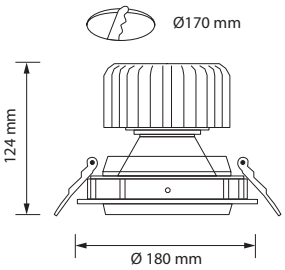
FEATURES & BENEFITS

- CRI 90 as standard
- Color temperature: PI-LED
- Great variety of optics – 5 angles from narrow beams to flood beams
- Luminaire efficiency: 54lm/W @4000K

APPLICATION

Supermarket | Fashion | Retail | Hospitality | Exhibition | Arhitectural





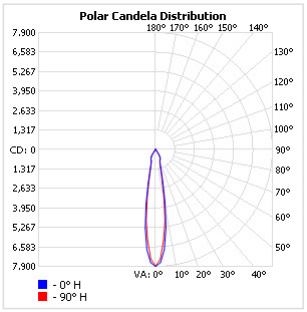
SPECIFICATIONS

Power consumption	26W	
Dimensions	D140xH115mmxØ130mm±1mm	D180xH124mmxØ170mm±1mm
Weight	0.9 Kg	1.1 Kg
Housing materials	Aluminium, glass	
IK code	IK02	
THD (at 230V, 50Hz, Full load)	<8%	
Protection class	Safety class 1	
Operating temperature [˚C]	+10°C ... +45°C / +50F ... +113F	
Operating humidity [%]	10 ÷ 85	
Power factor	≥0.85	
AC Input [Vac]	220 - 240 VAC	
Lens angle [˚]	20°, 30°, 45°, 55°	15°, 30°, 45°
Lifespan [h]	50,000	
Housing color	○ RAL 9003 - Signal White, ● RAL 9005 - Jet Black, ● RAL 9006 - White Aluminium	
Lumen maintenance	L70/B10@50,000h at 25°C	
IP factor (general)	IP20	
Control option	DALI	
Warranty [years]	5	
Storage temperature range [°C]	-20°C ... +80°C / -4F ... +176F	
Emergency option	-	

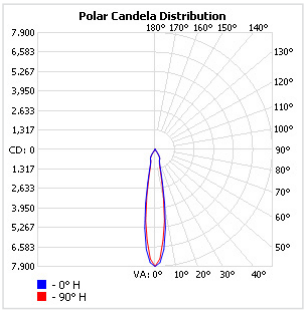
#	Standard
CRI	CRI 90
CCT [K]	PI
MacAdam	1

CRI - Color rendering, CCT - Color temperature, MacAdam - Color consistency

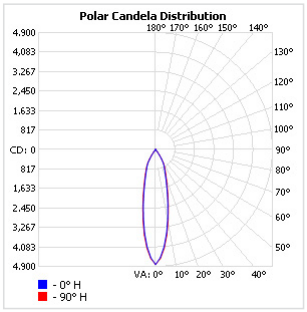
LIGHT DISTRIBUTION



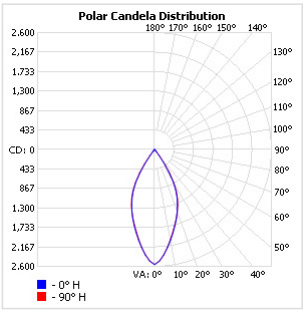
15°



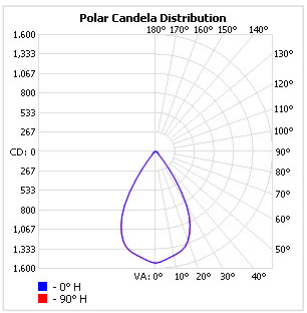
20°



30°



45°



55°

TOLERANCES

Luminous flux tolerances: -/+ 5%

Consumption tolerance: -/+ 5% for **Non-DALI** | -/+ 10% for **Non-DALI & KIT EM** | -/+ 10% for **DALI** | -/+ 15% for **DALI & KIT EM**

BATTERY WARRANTY

Non-DALI EM & DALI EM: 12 months warranty

Non-DALI & DALI: -

MAXIMUM NO. OF LUMINAIRES ON A CIRCUIT

Luminaire Power(W)	Control type	Circuit Breaker Type					
		B			C		
		20	16	10	20	16	10
8-20W	Non-DALI	62	50	31	104	85	52
23-35W	Non-DALI	24	20	10	47	40	20
42W	Non-DALI	20	16	8	38	32	16
8-20W	DALI	62	50	31	104	85	52
23-27W	DALI	25	21	13	50	42	26
34-42W	DALI	17	14	9	34	28	18

RISK GROUP

Standard (CRI80)	RG1
FOOD (BVF, FBS, FSM)	RG1
FOOD ≤35W (FZM, FSH)	RG1
FOOD >35W (FZM, FSH)	RG2
FAS	RG1
AMB2200	RG1
ART	RG1
AGI	RG1
CRI90	RG1
CRI95	RG1
ENT	RG1

RG1

The evaluation of photobiological safety is carried out according to the standard IEC 62471:2008 ("Photobiological safety of lamps and lamp systems"). Following the definition of the risk grouping system of the mentioned IEC standard, the LEDs mounted on this family fall into the class "Low Risk (RG1 – No photobiological hazard under normal behavioral limitations)". Under real circumstances (regarding exposure time, pupils, observation distance), it is assumed that there is no endangerment to the eye from these devices. As a matter of principle, however, it should be mentioned that intense light sources have a high secondary exposure potential due to their blinding effect.

RG2

The evaluation of photobiological safety is carried out according to the standard IEC 62471:2008 ("Photobiological safety of lamps and lamp systems"). Following the definition of the risk grouping system of the mentioned IEC standard, the LEDs mounted on this family fall into the class "Moderate Risk (RG2)". Under real circumstances (regarding exposure time, pupils, observation distance), it is assumed that there is no endangerment to the eye from these devices. As a matter of principle, however, it should be mentioned that intense light sources have a high secondary exposure potential due to their blinding effect.

SKU SPECIFICATIONS

Product Code	Dimensions (mm)	CCT (K)	Lumens (lm)	Power (W)	Eff. (lm/watt)	Lens Angle (°)
CRI 90						
2181378 Raylan D34021/PI/26W/90/A20	D140xH115mmxØ130mm±1mm	PI	1400	26W	54	20°
2181379 Raylan D34021/PI/26W/90/A30	D140xH115mmxØ130mm±1mm	PI	1400	26W	54	30°
2181380 Raylan D34021/PI/26W/90/A45	D140xH115mmxØ130mm±1mm	PI	1400	26W	54	45°
2181381 Raylan D34021/PI/26W/90/A55	D140xH115mmxØ130mm±1mm	PI	1400	26W	54	55°
2181382 Raylan D34013/PI/26W/90/A15	D180xH124mmxØ170mm±1mm	PI	1400	26W	54	15°
2181383 Raylan D34013/PI/26W/90/A30	D180xH124mmxØ170mm±1mm	PI	1400	26W	54	30°
2181384 Raylan D34013/PI/26W/90/A45	D180xH124mmxØ170mm±1mm	PI	1400	26W	54	45°