

Last information update: May 2018

**large body - warm white - white flood optic**

Product code
P644

Technical description

Adjustable spotlight with adapter for installation on electrified track for a linear PCB LED lamp with a Warm White (3000K) tone. Product complete with super pure anodized aluminium reflector to guarantee wide flood light distribution. DALI ballast integrated in the body. Die-cast aluminium optical assembly. Rotates 360° about the vertical axis and tilts 90° relative to the horizontal plane. Passive heat dissipation. Option of installing a range of outdoor accessories including an anti-glare and an asymmetric screen.

Installation

On an electrified track or base

Dimension (mm)

210x146

Colour

Black (04) | Black/White (47)

Weight (Kg)

2.11

Mounting

three circuit track|ceiling surface

Wiring

Product complete with electronic components

Complies with EN60598-1 and pertinent regulations

IP20 IP40 for optical assembly

**Product configuration: P644****Product characteristics**

Total lighting output [Lm]: 2699.7
Total power [W]: 48.1
Luminous efficacy [Lm/W]: 56.1
Life Time: 50,000h - L80 - B10 (Ta 25°C)

Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: -
Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 90
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 43
Nominal luminous [Lm]: 3000
Lamp maximum intensity [cd]: /
Beam angle [°]: 80° / 106°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 5.1
Colour temperature [K]: 3000
CRI: 90
Wavelength [Nm]: /
MacAdam Step: 2

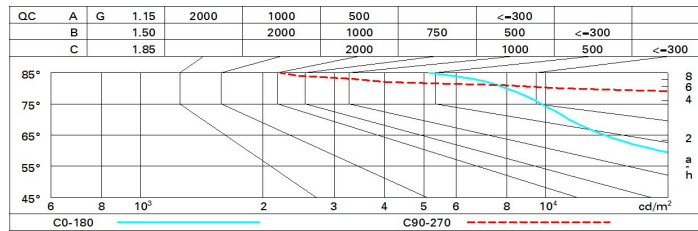
Polar

Polar		CIE		Lux	
Imax=1324 cd	C0-180 γ=18°	nL 0.90	h	d1	d2
90°	180°	64-91-99-100-90	Em	Emax	
		UGR 26.1-32.2			
		DIN			
		A.51			
		UTE			
		0.90C+0.00T			
		F*1=638			
		F*1+F*2=914			
		F*1+F*2+F*3=990			
1000	0°				
α=80° / 106°					

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	66	58	53	48	57	52	51	46	52
1.0	72	65	59	55	63	59	58	53	59
1.5	80	74	70	66	73	69	68	64	71
2.0	85	80	77	74	79	76	75	70	78
2.5	87	84	81	78	82	80	79	75	83
3.0	89	86	84	82	85	82	81	77	86
4.0	91	89	87	85	87	85	84	81	90
5.0	92	91	89	87	89	87	86	82	92

Luminance curve limit



UGR diagram

Corrected UGR values (at 3000 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
ceiling	cav	0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim											
x	y										
2H	2H	25.5	26.4	25.8	26.6	26.9	30.8	31.7	31.1	32.0	32.2
	3H	25.4	26.2	25.8	26.5	26.8	30.9	31.7	31.2	31.9	32.2
	4H	25.4	26.1	25.7	26.4	26.7	30.8	31.5	31.2	31.8	32.2
	6H	25.3	26.0	25.7	26.3	26.7	30.7	31.4	31.1	31.7	32.1
	8H	25.3	26.0	25.7	26.3	26.6	30.7	31.3	31.1	31.7	32.0
	12H	25.3	25.9	25.7	26.2	26.6	30.7	31.3	31.0	31.6	32.0
4H	2H	26.2	26.9	26.5	27.2	27.5	32.1	32.8	32.4	33.1	33.4
	3H	26.2	26.8	26.6	27.1	27.5	32.3	32.9	32.7	33.2	33.6
	4H	26.1	26.7	26.5	27.1	27.4	32.3	32.8	32.7	33.2	33.6
	6H	26.1	26.6	26.5	27.0	27.4	32.2	32.7	32.6	33.1	33.5
	8H	26.1	26.5	26.5	26.9	27.4	32.2	32.6	32.6	33.0	33.5
	12H	26.0	26.4	26.5	26.8	27.3	32.1	32.5	32.6	33.0	33.4
8H	4H	26.3	26.8	26.8	27.2	27.6	32.4	32.8	32.8	33.2	33.7
	6H	26.3	26.7	26.8	27.1	27.6	32.4	32.7	32.8	33.2	33.7
	8H	26.3	26.6	26.8	27.0	27.5	32.3	32.6	32.8	33.1	33.6
	12H	26.2	26.5	26.7	27.0	27.5	32.3	32.6	32.8	33.1	33.6
12H	4H	26.3	26.7	26.8	27.2	27.6	32.3	32.7	32.8	33.2	33.6
	6H	26.3	26.6	26.8	27.1	27.6	32.3	32.6	32.8	33.1	33.6
	8H	26.3	26.6	26.8	27.0	27.6	32.3	32.6	32.8	33.1	33.6
Variations with the observer position at spacing:											
S =	1.0H	1.6 / -3.0					0.4 / -0.4				
	1.5H	2.6 / -5.2					0.6 / -1.2				
	2.0H	3.8 / -6.5					1.5 / -1.6				