

Last information update: May 2018

**spotlight - warm white 42° optic**

Product code
P050

Technical description

Adjustable spotlight with adapter for installation on a mains voltage track. Die-cast aluminium optical assembly and brackets, the back of the product is slightly rounded and made of a thermoplastic material. Spotlight double adjustability allows a 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane. Mechanical aiming locks both for rotation about the vertical axis and tilting relative to the horizontal plane. Equipped with electronic ballast. Luminaire complete with C.O.B. technology LED unit in warm white colour 3000K CRI90. Option of installing a flat accessory that can be either an elliptical distribution refractor, a soft lens filter or a louver.

Installation

on an electrified track or special base

Dimension (mm)
Ø116x216

Colour

White (01) | Black (04) | White/Chrome (E4)

Weight (Kg)

1.4

Mounting

three circuit track

Wiring

product complete with electronic components

Complies with EN60598-1 and pertinent regulations

IP20 IP40 for optical assembly

**Product configuration: P050****Product characteristics**

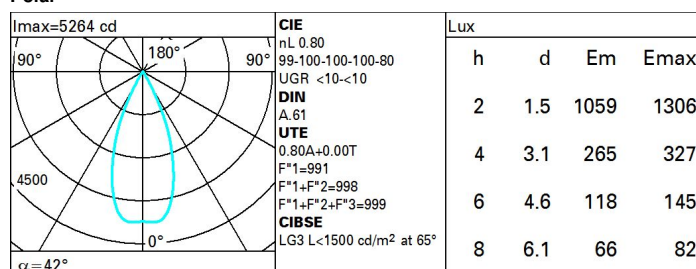
Total lighting output [Lm]: 2477
Total power [W]: 30.2
Luminous efficacy [Lm/W]: 82.1
Life Time: > 50,000h - L80 - B10 (Ta 25°C)

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.) [%]: 80
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 27
Nominal luminous [Lm]: 3100
Lamp maximum intensity [cd]: /
Beam angle [°]: 42°

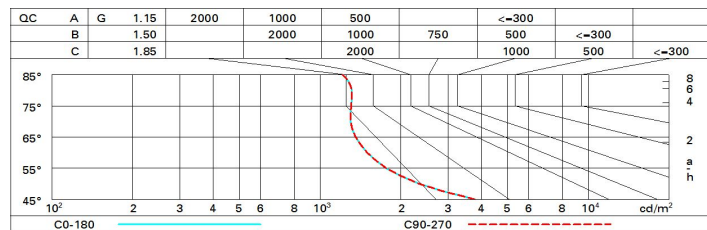
Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 3.2
Colour temperature [K]: 3000
CRI: 90
Wavelength [nm]: /
MacAdam Step: 2

Polar

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	72	68	66	63	67	65	65	62	78
1.0	75	72	69	67	71	69	68	66	82
1.5	79	76	74	73	75	74	73	70	88
2.0	81	79	78	77	78	77	76	74	93
2.5	83	81	80	79	80	79	78	76	95
3.0	84	83	82	81	82	81	80	78	97
4.0	85	84	84	83	83	82	81	79	99
5.0	85	85	84	84	84	83	82	80	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 3100 lm bare lamp luminous flux)											
Riflect.: ceil/cav walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise				
2H	2H	8.8	9.4	9.1	9.6	9.9	8.8	9.4	9.1	9.6	9.9
	3H	8.8	9.3	9.1	9.6	9.8	8.7	9.2	9.0	9.5	9.8
	4H	8.8	9.3	9.1	9.6	9.9	8.7	9.1	9.0	9.4	9.7
	6H	8.8	9.2	9.1	9.5	9.9	8.6	9.0	8.9	9.4	9.7
	8H	8.8	9.2	9.1	9.5	9.9	8.6	9.0	8.9	9.3	9.7
	12H	8.8	9.2	9.1	9.5	9.9	8.5	8.9	8.9	9.3	9.6
4H	2H	8.7	9.1	9.0	9.4	9.7	8.8	9.3	9.1	9.6	9.9
	3H	8.7	9.1	9.0	9.4	9.8	8.7	9.1	9.1	9.5	9.8
	4H	8.7	9.0	9.1	9.4	9.8	8.7	9.0	9.1	9.4	9.8
	6H	8.7	9.0	9.1	9.4	9.8	8.6	9.0	9.1	9.4	9.8
	8H	8.7	9.0	9.2	9.4	9.9	8.6	8.9	9.0	9.3	9.7
	12H	8.7	9.0	9.2	9.4	9.9	8.6	8.8	9.0	9.3	9.7
8H	4H	8.6	8.9	9.0	9.3	9.7	8.7	9.0	9.2	9.4	9.9
	6H	8.7	8.9	9.2	9.4	9.8	8.7	9.0	9.2	9.4	9.9
	8H	8.7	8.9	9.2	9.4	9.9	8.7	8.9	9.2	9.4	9.9
	12H	8.7	8.9	9.2	9.4	9.9	8.7	8.9	9.2	9.4	9.9
12H	4H	8.6	8.8	9.0	9.3	9.7	8.7	9.0	9.2	9.4	9.9
	6H	8.7	8.9	9.1	9.3	9.8	8.7	8.9	9.2	9.4	9.9
	8H	8.7	8.9	9.2	9.4	9.9	8.7	8.9	9.2	9.4	9.9
Variations with the observer position at spacing:											
S =	1.0H	5.3 / -4.9					5.3 / -4.9				
	1.5H	8.0 / -5.3					8.0 / -5.3				
	2.0H	10.0 / -5.5					10.0 / -5.5				