

Last information update: May 2018

**spotlight- neutral white - 46° optic**

Product code
P044

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 neutral white colour 4,000K. 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: P044****Product characteristics**

Total lighting output [Lm]: 2477
Total power [W]: 23.2
Luminous efficacy [Lm/W]: 106.6
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]: 20
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]: 4000
CRI: 80
Wavelength [Nm]: /
MacAdam Step: 2

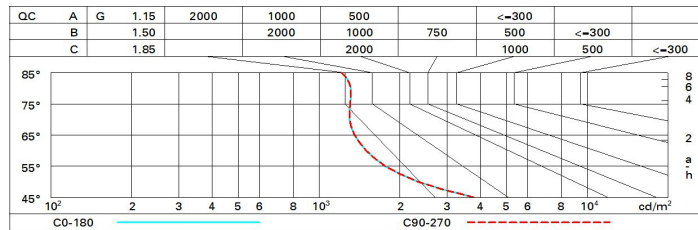
Polar

	Lux			
	h	d	Em	Emax
I _{max} =5264 cd 90° 180° 90° 4500 0° α=42°	2	1.5	1059	1306
	4	3.1	265	327
	6	4.6	118	145
	8	6.1	66	82

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)											
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	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					