4ward

Design RPBW Design **iGuzzini**

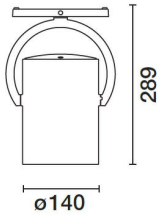
Last information update: May 2024

Product configuration: P086
P086: spotlight - warm white 46° optic

Product code
P086: spotlight - warm white 46° optic **Attention! Code no longer in production**

Technical description
Pendant luminaire equipped with a three-phase adapter for electrified tracks or a base, made of die-cast aluminium and thermoplastic material. The pendant system consists of steel cables L=2000 that provide a simple mechanical anchoring system. Having been rotated and tilted, the luminaire can be locked mechanically in position to ensure efficient light aiming (during maintenance operations too). 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 eliptical distribution refractor, a soft lens filter or a louver.

Installation
pendant on an electrified track or special base



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

Weight (Kg)
2.4

Mounting
three circuit track

Wiring
product complete with electronic components

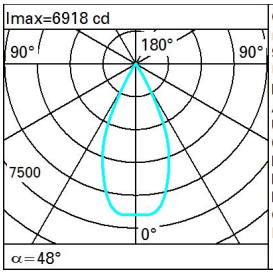
Complies with EN60598-1 and pertinent regulations

IP20 IP40 for optical assembly

Technical data

lm system:	3708.8	CRI:	90
W system:	39.1	Colour temperature [K]:	3000
lm source:	4700	MacAdam Step:	2
W source:	35	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	94.9	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	79	Number of optical assemblies:	1
Beam angle [°]:	48°		

Polar



CIE
nL 0.79
98-100-100-100-79
UGR 10.3-10.3
DIN
A.61
UTE
0.79A+0.00T
F"1=984
F"1+F"2=996
F"1+F"2+F"3=999
CIBSE
BZ1

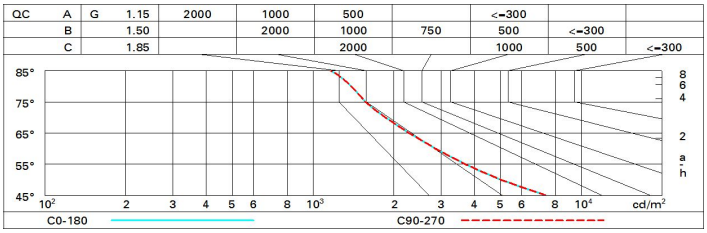
Lux

h	d	Em	Emax
2	1.8	1340	1723
4	3.6	335	431
6	5.3	149	191
8	7.1	84	108

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	71	67	64	62	66	64	64	61	77
1.0	74	71	68	66	70	68	67	65	82
1.5	78	75	73	72	74	72	72	69	88
2.0	80	78	77	76	77	76	75	73	92
2.5	82	80	79	78	79	78	77	75	95
3.0	83	82	81	80	80	80	79	77	97
4.0	84	83	82	82	82	81	80	78	99
5.0	84	84	83	83	82	82	81	79	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 4700 lm bare lamp luminous flux)

Riflect.: ceil/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				viewed crosswise					viewed endwise		
x	y										
2H	2H	10.4	11.0	10.6	11.2	11.4	10.4	11.0	10.6	11.2	11.4
	3H	10.4	10.9	10.7	11.2	11.5	10.3	10.8	10.6	11.1	11.4
	4H	10.4	10.9	10.7	11.2	11.5	10.3	10.8	10.6	11.1	11.4
	6H	10.3	10.8	10.7	11.1	11.5	10.2	10.7	10.5	11.0	11.3
	8H	10.3	10.8	10.7	11.1	11.4	10.2	10.6	10.5	10.9	11.3
	12H	10.3	10.7	10.7	11.1	11.4	10.1	10.6	10.5	10.9	11.2
4H	2H	10.3	10.8	10.6	11.1	11.4	10.4	10.9	10.7	11.2	11.5
	3H	10.3	10.8	10.7	11.1	11.4	10.4	10.8	10.7	11.1	11.5
	4H	10.3	10.7	10.7	11.1	11.5	10.3	10.7	10.7	11.1	11.5
	6H	10.3	10.7	10.8	11.1	11.5	10.3	10.6	10.7	11.0	11.4
	8H	10.3	10.6	10.8	11.0	11.5	10.3	10.6	10.7	11.0	11.4
	12H	10.3	10.6	10.8	11.0	11.5	10.2	10.5	10.7	10.9	11.4
8H	4H	10.3	10.6	10.7	11.0	11.4	10.3	10.6	10.8	11.0	11.5
	6H	10.3	10.5	10.8	11.0	11.5	10.3	10.6	10.8	11.0	11.5
	8H	10.3	10.5	10.8	11.0	11.5	10.3	10.5	10.8	11.0	11.5
	12H	10.3	10.5	10.8	11.0	11.5	10.3	10.5	10.8	10.9	11.5
12H	4H	10.2	10.5	10.7	10.9	11.4	10.3	10.6	10.8	11.0	11.5
	6H	10.3	10.5	10.7	10.9	11.4	10.3	10.5	10.8	11.0	11.5
	8H	10.3	10.5	10.8	10.9	11.5	10.3	10.5	10.8	11.0	11.5

Variations with the observer position at spacing:

S =			
	1.0H	4.7 / -3.9	4.7 / -3.9
	1.5H	7.4 / -4.8	7.4 / -4.8
	2.0H	9.3 / -5.4	9.3 / -5.4