4ward

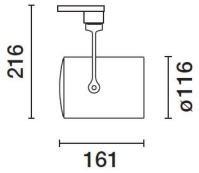
Design RPBW Design **iGuzzini**

Last information update: May 2018

spotlight- warm white - 46° optic

Product code
P047

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. Option of installing a flat accessory that can be either an eliptical 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: P047

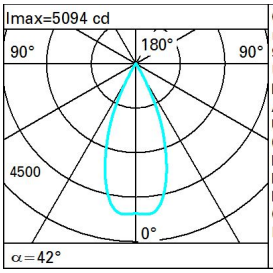
Product characteristics

Total lighting output [Lm]: 2397	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 23.2	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 103.2	Voltage [V]: -
Life Time: > 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 80	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 3.2
Nominal power [W]: 20	Colour temperature [K]: 3000
Nominal luminous [Lm]: 3000	CRI: 80
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 42°	MacAdam Step: 2

Polar



CIE
nL 0.80
99-100-100-100-80
UGR <10-<10
DIN
A.61
UTE
0.80A+0.00T
F"1=991
F"1+F"2=998
F"1+F"2+F"3=999
CIBSE
LG3 L<1500 cd/m² at 65°

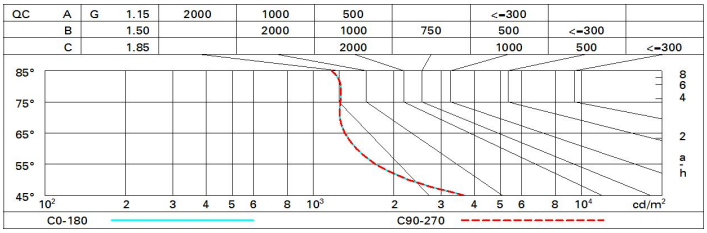
Lux

h	d	Em	Emax
2	1.5	1025	1264
4	3.1	256	316
6	4.6	114	140
8	6.1	64	79

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 3000 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					viewed		
x	y			crosswise					endwise		
2H	2H	8.7	9.3	9.0	9.5	9.7	8.7	9.3	9.0	9.5	9.7
	3H	8.7	9.2	9.0	9.5	9.7	8.6	9.1	8.9	9.4	9.7
	4H	8.7	9.1	9.0	9.4	9.7	8.5	9.0	8.9	9.3	9.6
	6H	8.7	9.1	9.0	9.4	9.7	8.5	8.9	8.8	9.2	9.6
	8H	8.7	9.1	9.0	9.4	9.7	8.4	8.9	8.8	9.2	9.5
	12H	8.6	9.1	9.0	9.4	9.7	8.4	8.8	8.8	9.2	9.5
4H	2H	8.5	9.0	8.9	9.3	9.6	8.7	9.1	9.0	9.4	9.7
	3H	8.5	9.0	8.9	9.3	9.6	8.6	9.0	9.0	9.4	9.7
	4H	8.6	8.9	9.0	9.3	9.7	8.6	8.9	9.0	9.3	9.7
	6H	8.6	8.9	9.0	9.3	9.7	8.5	8.8	8.9	9.2	9.7
	8H	8.6	8.9	9.0	9.3	9.8	8.5	8.8	8.9	9.2	9.6
	12H	8.6	8.9	9.1	9.3	9.8	8.5	8.7	8.9	9.1	9.6
8H	4H	8.5	8.8	8.9	9.2	9.6	8.6	8.9	9.0	9.3	9.8
	6H	8.6	8.8	9.0	9.3	9.7	8.6	8.8	9.1	9.3	9.8
	8H	8.6	8.8	9.1	9.3	9.8	8.6	8.8	9.1	9.3	9.8
	12H	8.6	8.8	9.1	9.3	9.8	8.6	8.8	9.1	9.2	9.8
12H	4H	8.5	8.7	8.9	9.1	9.6	8.6	8.9	9.1	9.3	9.8
	6H	8.5	8.7	9.0	9.2	9.7	8.6	8.8	9.1	9.3	9.8
	8H	8.6	8.8	9.1	9.2	9.8	8.6	8.8	9.1	9.3	9.8

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