Tecnica Pro

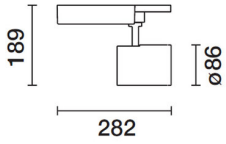
Design iGuzzini **iGuzzini**

Last information update: June 2018

spotlight - warm white - wide flood optic

Product code
N356

Technical description
Adjustable spotlight with adapter for installation on mains voltage track for high-performance LED source with CoB technology, monochromatic Warm White (3000K) CRI90 emission. Electronic control gear housed inside the track-mounted power supply box. The luminaire is made of die-cast aluminium and thermoplastic. OPTIBEAM superpure aluminium reflector with high luminous efficacy and uniform distribution, wide flood optic. Features 90° inclination on the horizontal plane and 360° rotation around the vertical axis, with mechanical locking device for aiming. Passive cooling system. Possibility of installing a refractor, to be ordered separately, for elliptical light beam distribution.



Installation
The luminaire can be installed on a standard electrified track or on an appropriate channel incorporating an electrified track.

Dimension (mm)
Ø86x189

Colour
White (01) | Black (04)

Weight (Kg)
1.12

Mounting
three circuit track|ceiling surface

Wiring
product inclusive of electronic components incorporated into the track-mounted box.

Complies with EN60598-1 and pertinent regulations

IP20 IP40 for optical assembly

Product configuration: N356

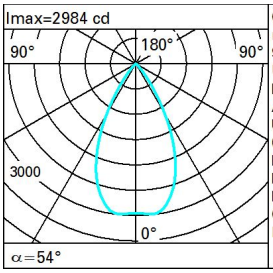
Product characteristics

Total lighting output [Lm]: 2278	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 29.3	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 77.8	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.) [%]: 76	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 4.3
Nominal power [W]: 25	Colour temperature [K]: 3000
Nominal luminous [Lm]: 3000	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 54°	MacAdam Step: 2

Polar



CIE
nL 0.76
97-100-100-100-76
UGR 20.2-20.2
DIN
A.61
UTE
0.76A+0.00T
F"1=974
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°

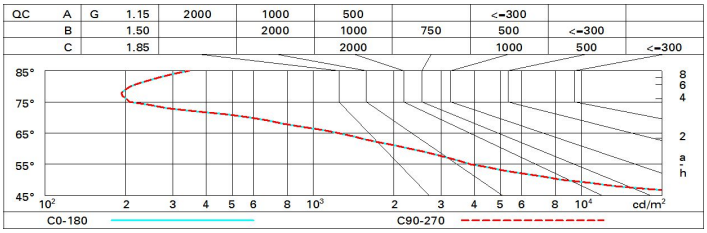
Lux

h	d	Em	Emax
2	2	582	738
4	4.1	146	184
6	6.1	65	82
8	8.2	36	46

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	68	64	61	59	63	61	61	58	77
1.0	71	68	65	63	67	65	64	62	81
1.5	75	72	70	69	71	70	69	66	88
2.0	77	75	74	73	74	73	72	70	92
2.5	79	77	76	75	76	75	74	72	95
3.0	80	79	78	77	77	77	76	74	97
4.0	80	80	79	79	78	78	77	75	99
5.0	81	80	80	80	79	79	78	76	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 crosswise					viewed endwise		
x	y										
2H	2H	20.8	21.5	21.1	21.7	21.9	20.8	21.5	21.1	21.7	21.9
	3H	20.7	21.3	21.0	21.5	21.8	20.7	21.3	21.0	21.5	21.8
	4H	20.6	21.1	21.0	21.4	21.7	20.6	21.1	21.0	21.4	21.7
	6H	20.5	21.0	20.9	21.3	21.7	20.5	21.0	20.9	21.3	21.7
	8H	20.5	21.0	20.9	21.3	21.6	20.5	21.0	20.9	21.3	21.6
	12H	20.5	20.9	20.8	21.2	21.6	20.5	20.9	20.8	21.2	21.6
4H	2H	20.6	21.1	21.0	21.4	21.7	20.6	21.1	21.0	21.4	21.7
	3H	20.5	20.9	20.8	21.2	21.6	20.5	20.9	20.8	21.2	21.6
	4H	20.4	20.8	20.8	21.1	21.5	20.4	20.8	20.8	21.1	21.5
	6H	20.3	20.6	20.7	21.0	21.4	20.3	20.6	20.7	21.0	21.4
	8H	20.2	20.6	20.7	21.0	21.4	20.2	20.6	20.7	21.0	21.4
	12H	20.2	20.5	20.7	20.9	21.4	20.2	20.5	20.7	20.9	21.4
8H	4H	20.2	20.6	20.7	21.0	21.4	20.2	20.6	20.7	21.0	21.4
	6H	20.2	20.4	20.6	20.9	21.3	20.2	20.4	20.6	20.9	21.3
	8H	20.1	20.3	20.6	20.8	21.3	20.1	20.3	20.6	20.8	21.3
	12H	20.0	20.2	20.5	20.7	21.2	20.0	20.2	20.5	20.7	21.2
12H	4H	20.2	20.5	20.7	20.9	21.4	20.2	20.5	20.7	20.9	21.4
	6H	20.1	20.3	20.6	20.8	21.3	20.1	20.3	20.6	20.8	21.3
	8H	20.0	20.2	20.5	20.7	21.2	20.0	20.2	20.5	20.7	21.2

Variations with the observer position at spacing:

S =	1.0H	5.3 / -17.5	5.3 / -17.5
	1.5H	8.1 / -21.6	8.1 / -21.6
	2.0H	10.1 / -25.1	10.1 / -25.1