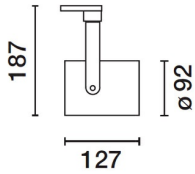


## Front Light

Design iGuzzini

iGuzzini

Last information update: May 2018



### Warm White - Wide Flood Optic

**Product code**  
N293

#### Technical description

Adjustable spotlight with adapter for installation on a mains voltage track. Luminaire made of die-cast aluminium. 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 LED unit, C.O.B. technology, and wide flood optic with warm white colour 3000K CRI 90.

#### Installation

On an electrified track

#### Dimension (mm)

Ø92x127

#### Colour

White (01) | Black (04) | Grey/Black (74)

#### Weight (Kg)

0.95

#### Mounting

three circuit track

#### Wiring

product complete with electronic components

Complies with EN60598-1 and pertinent regulations

IP20 IP40 for optical assembly



#### Product configuration: N293

#### Product characteristics

Total lighting output [Lm]: 1342  
Total power [W]: 15.4  
Luminous efficacy [Lm/W]: 87.1  
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.) [%]: 79  
Lamp code: LED  
ZVEI Code: LED  
Nominal power [W]: 14  
Nominal luminous [Lm]: 1700  
Lamp maximum intensity [cd]: /  
Beam angle [°]: 56°

Number of lamps for optical assembly: 1  
Socket: /  
Ballast losses [W]: 1.4  
Colour temperature [K]: 3000  
CRI: 90  
Wavelength [Nm]: /  
MacAdam Step: 2

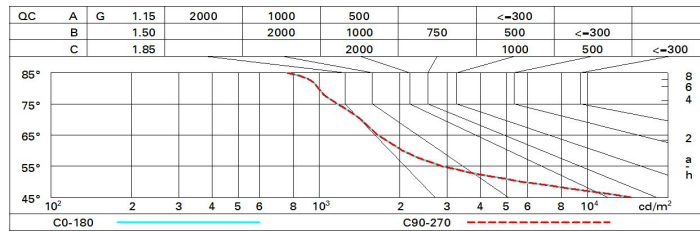
#### Polar

I <sub>max</sub> =1725 cd		CIE nL 0.79 98-100-100-100-79 UGR 16.9-16.9 DIN A.61 UTE 0.79A+0.00T F <sup>1</sup> =975 F <sup>1</sup> +F <sup>2</sup> =997 F <sup>1</sup> +F <sup>2</sup> +F <sup>3</sup> =1000 CIBSE LG3 L<3000 cd/m <sup>2</sup> at 65° UGR<19   L<3000 cd/mq @65°	Lux			
90°	180°		h	d	Em	E <sub>max</sub>
		2	2.1	342	427	
		4	4.3	85	107	
		6	6.4	38	47	
		8	8.5	21	27	

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	70	67	64	62	66	63	63	61	77
1.0	74	70	68	66	69	67	67	64	81
1.5	78	75	73	71	74	72	72	69	88
2.0	80	78	77	75	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 1700 lm bare lamp luminous flux)											
Room dim		viewed crosswise					viewed endwise				
Reflect.:											
ceiling	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	
x	y										
2H	2H	17.4	18.0	17.7	18.3	18.5	17.4	18.0	17.7	18.3	
	3H	17.3	17.8	17.6	18.1	18.4	17.3	17.8	17.6	18.1	
	4H	17.2	17.7	17.5	18.0	18.3	17.2	17.7	17.5	18.0	
	6H	17.1	17.6	17.5	17.9	18.3	17.1	17.6	17.5	17.9	
	8H	17.1	17.6	17.5	17.9	18.2	17.1	17.5	17.5	17.9	
	12H	17.1	17.5	17.4	17.8	18.2	17.1	17.5	17.4	17.8	
4H	2H	17.2	17.7	17.5	18.0	18.3	17.2	17.7	17.5	18.0	
	3H	17.1	17.5	17.4	17.8	18.2	17.1	17.5	17.5	17.8	
	4H	17.0	17.4	17.4	17.7	18.1	17.0	17.4	17.4	17.7	
	6H	16.9	17.2	17.3	17.6	18.1	16.9	17.2	17.3	17.6	
	8H	16.9	17.2	17.3	17.6	18.0	16.9	17.2	17.3	17.6	
	12H	16.8	17.1	17.3	17.5	18.0	16.8	17.1	17.3	17.5	
8H	4H	16.9	17.2	17.3	17.6	18.0	16.9	17.2	17.3	17.6	
	6H	16.8	17.0	17.3	17.5	18.0	16.8	17.0	17.3	17.5	
	8H	16.7	16.9	17.2	17.4	17.9	16.7	16.9	17.2	17.4	
	12H	16.7	16.9	17.2	17.4	17.9	16.7	16.9	17.2	17.4	
12H	4H	16.8	17.1	17.3	17.5	18.0	16.8	17.1	17.3	17.5	
	6H	16.7	16.9	17.2	17.4	17.9	16.7	16.9	17.2	17.4	
	8H	16.7	16.9	17.2	17.4	17.9	16.7	16.9	17.2	17.4	
Variations with the observer position at spacing:											
S =	1.0H	5.6 / -11.9					5.6 / -11.9				
	1.5H	8.4 / -13.1					8.4 / -13.1				
	2.0H	10.4 / -13.6					10.4 / -13.6				