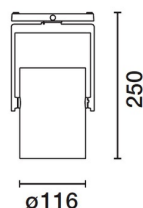# Front Light

Design iGuzzini      iGuzzini

Last information update: May 2018

### pendant - Warm White - Flood Optic

**Product code**
N277

**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). Luminaire for high output C.O.B.technology LED lamp with monochrome emission in a warm white colour tone (3000K) CRI 90. Flood optic. Equipped with electronic ballast. Equipped with an accessory holding ring designed to contain a flat accessory. An external component may also be applied, such as directional flaps with 360° rotation.

**Installation**
On an electrified track or base

**Dimension (mm)**
Ø116x250

250

ø116

**Colour**
White (01) | Black (04)

**Weight (Kg)**
1.7

**Mounting**
three circuit track pendant|ceiling surface

**Wiring**
product complete with electronic components

Complies with EN60598-1 and pertinent regulations

IP20   IP40   for optical assembly

CE   CIDET   EAC   A++

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**Product configuration: N277**

**Product characteristics**
Total lighting output [Lm]: 1614
Total power [W]: 19.4
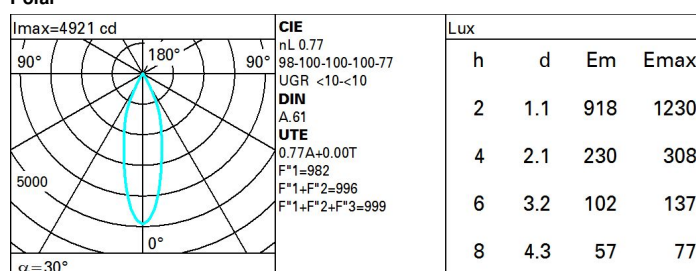Luminous efficacy [Lm/W]: 83.2
Life Time: > 50,000h - L80 - B10 (Ta 25°C)

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.) [%]: 77
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 17
Nominal luminous [Lm]: 2100
Lamp maximum intensity [cd]: /
Beam angle [°]: 30°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 2.4
Colour temperature [K]: 3000
CRI: 90
Wavelength [Nm]: /
MacAdam Step: 2

**Polar**

| | CIE | | Lux | | | |
|---|---|---|---|---|---|---|
| Imax=4921 cd | nL 0.77 | | | | | |
| 90° 180° 90° | 98-100-100-100-77 | | h | d | Em | Emax |
| | UGR <10-<10 | | | | | |
| | **DIN** | | 2 | 1.1 | 918 | 1230 |
| | A.61 | | | | | |
| | **UTE** | | 4 | 2.1 | 230 | 308 |
| 5000 | 0.77A+0.00T | | | | | |
| | F"1=982 | | 6 | 3.2 | 102 | 137 |
| | F"1+F"2=996 | | | | | |
| | F"1+F"2+F"3=999 | | 8 | 4.3 | 57 | 77 |
| 0° | | | | | | |
| α=30° | | | | | | |

**Utilisation factors**

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|---|---|---|---|---|---|---|---|---|---|
| K0.8 | 69 | 65 | 63 | 61 | 64 | 62 | 62 | 59 | 77 |
| 1.0 | 72 | 69 | 66 | 64 | 68 | 66 | 65 | 63 | 82 |
| 1.5 | 76 | 73 | 71 | 70 | 72 | 71 | 70 | 67 | 88 |
| 2.0 | 78 | 76 | 75 | 74 | 75 | 74 | 73 | 71 | 92 |
| 2.5 | 80 | 78 | 77 | 76 | 77 | 76 | 75 | 73 | 95 |
| 3.0 | 81 | 80 | 79 | 78 | 78 | 78 | 77 | 75 | 97 |
| 4.0 | 81 | 81 | 80 | 80 | 79 | 79 | 78 | 76 | 99 |
| 5.0 | 82 | 82 | 81 | 81 | 80 | 80 | 79 | 77 | 100 |

**Luminance curve limit**

| QC | A | G | 1.15 | 2000 | 1000 | 500 | | | <=300 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | B | | 1.50 | | 2000 | 1000 | 750 | | 500 | <=300 | |
| | C | | 1.85 | | | 2000 | | | 1000 | 500 | <=300 |

| | | | | | | | | | | | | | | 8 6 4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 85° | | | | | | | | | | | | | | |
| 75° | | | | | | | | | | | | | | 2 |
| 65° | | | | | | | | | | | | | | a |
| 55° | | | | | | | | | | | | | | h |
| 45° | 10² | 2 | 3 | 4 | 5 | 6 | 8 | 10³ | 2 | 3 | 4 | 5 6 | 8 10⁴ | cd/m² |

C0-180 ————    C90-270 – – – – – – –
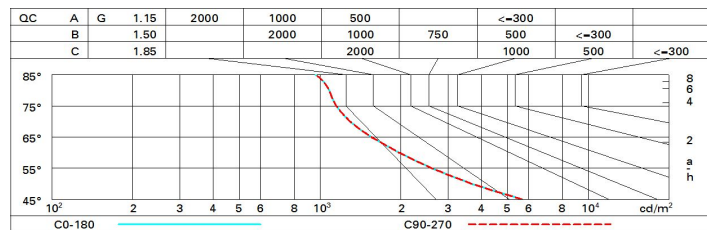
**UGR diagram**

Corrected UGR values (at 2100 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 | 9.2 | 9.8 | 9.5 | 10.0 | 10.2 | 9.2 | 9.8 | 9.5 | 10.0 | 10.2 |
| | 3H | 9.2 | 9.7 | 9.5 | 10.0 | 10.3 | 9.1 | 9.7 | 9.5 | 9.9 | 10.2 |
| | 4H | 9.2 | 9.7 | 9.5 | 10.0 | 10.3 | 9.1 | 9.6 | 9.4 | 9.9 | 10.2 |
| | 6H | 9.2 | 9.7 | 9.6 | 10.0 | 10.3 | 9.0 | 9.5 | 9.4 | 9.8 | 10.1 |
| | 8H | 9.2 | 9.6 | 9.6 | 10.0 | 10.3 | 9.0 | 9.4 | 9.4 | 9.8 | 10.1 |
| | 12H | 9.2 | 9.6 | 9.6 | 9.9 | 10.3 | 9.0 | 9.4 | 9.3 | 9.7 | 10.1 |
| 4H | 2H | 9.1 | 9.6 | 9.4 | 9.9 | 10.2 | 9.2 | 9.7 | 9.5 | 10.0 | 10.3 |
| | 3H | 9.2 | 9.6 | 9.5 | 9.9 | 10.3 | 9.2 | 9.6 | 9.6 | 10.0 | 10.3 |
| | 4H | 9.2 | 9.6 | 9.6 | 9.9 | 10.3 | 9.2 | 9.6 | 9.6 | 9.9 | 10.3 |
| | 6H | 9.2 | 9.5 | 9.6 | 9.9 | 10.3 | 9.2 | 9.5 | 9.6 | 9.9 | 10.3 |
| | 8H | 9.2 | 9.5 | 9.7 | 9.9 | 10.4 | 9.1 | 9.4 | 9.6 | 9.8 | 10.3 |
| | 12H | 9.2 | 9.5 | 9.7 | 9.9 | 10.4 | 9.1 | 9.3 | 9.5 | 9.8 | 10.2 |
| 8H | 4H | 9.1 | 9.4 | 9.6 | 9.8 | 10.3 | 9.2 | 9.5 | 9.7 | 9.9 | 10.4 |
| | 6H | 9.2 | 9.4 | 9.7 | 9.9 | 10.3 | 9.2 | 9.5 | 9.7 | 9.9 | 10.4 |
| | 8H | 9.2 | 9.4 | 9.7 | 9.9 | 10.4 | 9.2 | 9.4 | 9.7 | 9.9 | 10.4 |
| | 12H | 9.2 | 9.4 | 9.7 | 9.9 | 10.4 | 9.2 | 9.4 | 9.7 | 9.8 | 10.4 |
| 12H | 4H | 9.1 | 9.3 | 9.5 | 9.8 | 10.2 | 9.2 | 9.5 | 9.7 | 9.9 | 10.4 |
| | 6H | 9.1 | 9.4 | 9.6 | 9.8 | 10.3 | 9.2 | 9.4 | 9.7 | 9.9 | 10.4 |
| | 8H | 9.2 | 9.4 | 9.7 | 9.8 | 10.4 | 9.2 | 9.4 | 9.7 | 9.9 | 10.4 |

Variations with the observer position at spacing:

| S = | 1.0H | 4.2 / -3.7 | 4.2 / -3.7 |
|---|---|---|---|
| | 1.5H | 6.8 / -4.6 | 6.8 / -4.6 |
| | 2.0H | 8.7 / -5.1 | 8.7 / -5.1 |