Front Light

Last information update: May 2018
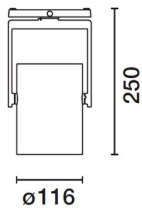
pendant - Warm White - Flood Optic

Product code
N280

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

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

Product configuration: N280

Product characteristics

Total lighting output [Lm]: 2305	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 30.2	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 76.4	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.) [%]: 77	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 2.2
Nominal power [W]: 28	Colour temperature [K]: 3000
Nominal luminous [Lm]: 3000	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 30°	MacAdam Step: 2

Polar

Imax=7031 cd

90° 180° 90°

7500

0°

α=30°

CIE
nL 0.77
98-100-100-100-77
UGR 10.5-10.4
DIN
A.61
UTE
0.77A+0.00T
F"1=982
F"1+F"2=996
F"1+F"2+F"3=999

Lux			
h	d	Em	Emax
2	1.1	1312	1758
4	2.1	328	439
6	3.2	146	195
8	4.3	82	110

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

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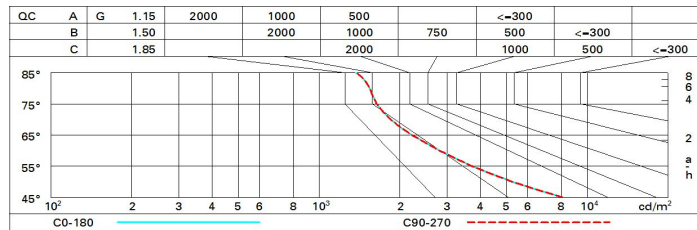
UGR diagram

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 x	y			viewed crosswise					viewed endwise		
2H	2H	10.4	11.0	10.7	11.2	11.5	10.4	11.0	10.7	11.2	11.5
	3H	10.5	11.0	10.8	11.2	11.5	10.4	10.9	10.7	11.2	11.4
	4H	10.5	10.9	10.8	11.2	11.5	10.3	10.8	10.7	11.1	11.4
	6H	10.4	10.9	10.8	11.2	11.5	10.3	10.7	10.6	11.0	11.4
	8H	10.4	10.9	10.8	11.2	11.5	10.2	10.7	10.6	11.0	11.3
	12H	10.4	10.8	10.8	11.2	11.5	10.2	10.6	10.6	11.0	11.3
4H	2H	10.3	10.8	10.7	11.1	11.4	10.5	10.9	10.8	11.2	11.5
	3H	10.4	10.8	10.8	11.2	11.5	10.5	10.9	10.8	11.2	11.6
	4H	10.4	10.8	10.8	11.2	11.5	10.4	10.8	10.8	11.2	11.5
	6H	10.5	10.8	10.9	11.2	11.6	10.4	10.7	10.8	11.1	11.5
	8H	10.5	10.7	10.9	11.2	11.6	10.4	10.7	10.8	11.1	11.5
	12H	10.4	10.7	10.9	11.1	11.6	10.3	10.6	10.8	11.0	11.5
8H	4H	10.4	10.7	10.8	11.1	11.5	10.5	10.7	10.9	11.2	11.6
	6H	10.4	10.7	10.9	11.1	11.6	10.5	10.7	10.9	11.1	11.6
	8H	10.4	10.6	10.9	11.1	11.6	10.4	10.6	10.9	11.1	11.6
	12H	10.5	10.6	11.0	11.1	11.6	10.4	10.6	10.9	11.1	11.6
12H	4H	10.3	10.6	10.8	11.0	11.5	10.4	10.7	10.9	11.1	11.6
	6H	10.4	10.6	10.9	11.1	11.6	10.5	10.7	10.9	11.1	11.6
	8H	10.4	10.6	10.9	11.1	11.6	10.5	10.6	11.0	11.1	11.6

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