Libera System

Design Artec Studio	**iGuzzini**

Last information update: July 2024

Product configuration: PE42
PE42: Strip UpLight Warm White - UGR<19 - for module L=912

Product code
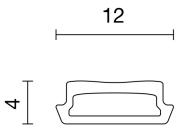PE42: Strip UpLight Warm White - UGR<19 - for module L=912

Technical description
Strip UpLight for module L=912. Monochrome Warm White CRI90 LED lamp with UGR<19. Complete with quick coupling connectors.
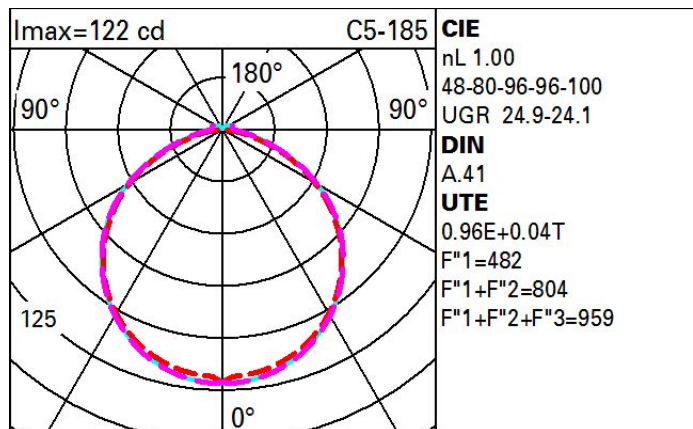
Colour	Weight (Kg)
White (01)	0.02

Complies with EN60598-1 and pertinent regulations

III | IP20 | CE | UK CA | QCERT

12

4

Technical data

lm system:	355	MacAdam Step:	3
W system:	2.9	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
lm source:	-	Voltage [Vin]:	48
W source:	-	Lamp code:	LED
Luminous efficiency (lm/W, real value):	122.4	Number of lamps for optical assembly:	1
lm in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	14	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	LED current [mA]:	20
		Control:	PWM
CRI (minimum):	90		
Colour temperature [K]:	2700		

Polar

Imax=122 cd   C5-185

180°
90°   90°
125
0°

CIE
nL 1.00
48-80-96-96-100
UGR 24.9-24.1
DIN
A.41
UTE
0.96E+0.04T
F"1=482
F"1+F"2=804
F"1+F"2+F"3=959

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	65	55	47	42	53	46	45	38	40
1.0	72	62	55	49	60	54	53	45	47
1.5	82	74	68	63	72	66	65	58	60
2.0	88	82	76	72	79	74	73	66	69
2.5	92	86	82	78	84	80	78	72	75
3.0	94	90	86	82	87	83	81	75	79
4.0	97	94	90	87	91	88	86	80	83
5.0	99	96	93	91	93	91	88	83	86

Luminance curve limit

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

85°
75°
65°
55°
45°

8
6
4

2

a
h

6   8   10³   2   3   4   5   6   8   10⁴   cd/m²

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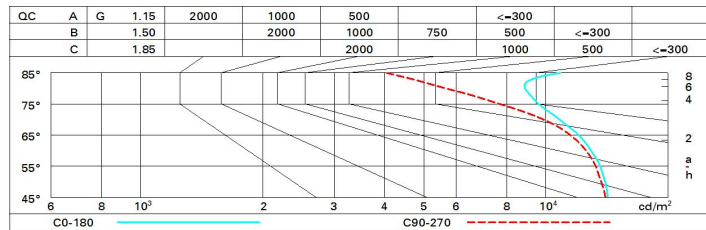
UGR diagram

Corrected UGR values (at 355 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	21.5	22.6	21.9	23.0	23.3	21.5	22.6	21.8	22.9	23.3
	3H	22.9	23.9	23.3	24.2	24.6	21.9	22.9	22.3	23.3	23.7
	4H	23.4	24.3	23.8	24.7	25.1	22.1	23.0	22.5	23.4	23.8
	6H	23.8	24.6	24.2	25.0	25.4	22.1	23.0	22.6	23.4	23.8
	8H	23.9	24.7	24.4	25.1	25.6	22.1	22.9	22.6	23.3	23.8
	12H	24.1	24.8	24.5	25.3	25.7	22.1	22.9	22.5	23.3	23.7
4H	2H	22.1	23.0	22.5	23.4	23.8	23.1	24.0	23.5	24.4	24.8
	3H	23.7	24.4	24.1	24.9	25.3	23.7	24.4	24.1	24.9	25.3
	4H	24.2	24.9	24.7	25.4	25.9	23.9	24.6	24.4	25.0	25.5
	6H	24.7	25.3	25.2	25.8	26.3	24.1	24.7	24.6	25.2	25.7
	8H	24.9	25.5	25.4	26.0	26.5	24.1	24.7	24.6	25.2	25.7
	12H	25.1	25.7	25.7	26.2	26.7	24.1	24.6	24.6	25.1	25.7
8H	4H	24.4	25.0	24.9	25.5	26.0	24.2	24.8	24.7	25.3	25.8
	6H	25.1	25.5	25.6	26.0	26.6	24.5	25.0	25.1	25.5	26.1
	8H	25.3	25.7	25.9	26.3	26.9	24.6	25.0	25.2	25.6	26.2
	12H	25.7	26.0	26.2	26.6	27.2	24.7	25.1	25.3	25.6	26.2
12H	4H	24.4	24.9	24.9	25.4	26.0	24.3	24.8	24.8	25.3	25.8
	6H	25.1	25.5	25.6	26.0	26.6	24.6	25.0	25.1	25.5	26.1
	8H	25.4	25.8	26.0	26.3	26.9	24.7	25.1	25.3	25.6	26.2

Variations with the observer position at spacing:

S =	1.0H	0.1 / -0.1	0.1 / -0.1
	1.5H	0.3 / -0.4	0.3 / -0.5
	2.0H	0.5 / -0.7	0.6 / -0.8