Libera System

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Last information update: July 2024

Product configuration: PE43
PE43: Strip UpLight Warm White - UGR<19 - for module L=912

Product code
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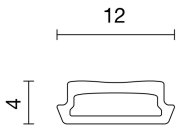
Technical description
Strip UpLight for module L=912. Monochrome Warm White CRI90 LED lamp with UGR<19. Complete with quick coupling connectors.

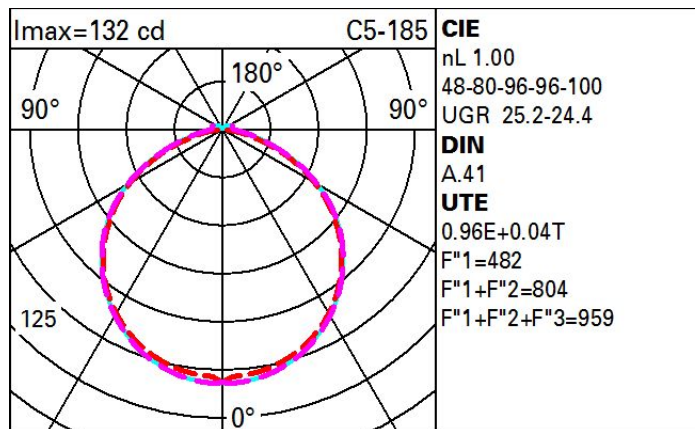| Colour	Weight (Kg)
White (01)	0.02

Complies with EN60598-1 and pertinent regulations

IP20 CE UK CA

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Technical data

lm system:	385	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):	132.8	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]:	15	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	LED current [mA]:	20
		Control:	PWM
CRI (minimum):	90		
Colour temperature [K]:	3000		

Polar

Imax=132 cd   C5-185

CIE
nL 1.00
48-80-96-96-100
UGR 25.2-24.4
DIN
A.41
UTE
0.96E+0.04T
F"1=482
F"1+F"2=804
F"1+F"2+F"3=959

180°
90°   90°
125
0°

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	1000	750	500	<=300	
	C		1.85			2000		1000	500	<=300

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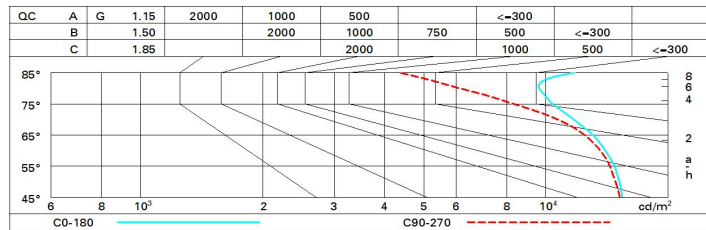
UGR diagram

Corrected UGR values (at 385 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	21.8	22.9	22.2	23.2	23.6	21.7	22.9	22.1	23.2	23.5
	3H	23.2	24.2	23.6	24.5	24.9	22.2	23.2	22.6	23.6	23.9
	4H	23.7	24.6	24.1	25.0	25.4	22.4	23.3	22.8	23.7	24.1
	6H	24.0	24.9	24.5	25.3	25.7	22.4	23.2	22.8	23.7	24.1
	8H	24.2	25.0	24.6	25.4	25.9	22.4	23.2	22.8	23.6	24.1
	12H	24.3	25.1	24.8	25.6	26.0	22.4	23.1	22.8	23.6	24.0
4H	2H	22.4	23.3	22.8	23.7	24.1	23.3	24.3	23.8	24.6	25.1
	3H	23.9	24.7	24.4	25.1	25.6	23.9	24.7	24.4	25.1	25.6
	4H	24.5	25.2	25.0	25.7	26.1	24.2	24.9	24.7	25.3	25.8
	6H	25.0	25.6	25.5	26.1	26.6	24.4	25.0	24.9	25.4	26.0
	8H	25.2	25.8	25.7	26.3	26.8	24.4	25.0	24.9	25.4	26.0
	12H	25.4	25.9	25.9	26.4	27.0	24.4	24.9	24.9	25.4	26.0
8H	4H	24.7	25.3	25.2	25.8	26.3	24.5	25.1	25.0	25.6	26.1
	6H	25.3	25.8	25.9	26.3	26.9	24.8	25.3	25.3	25.8	26.4
	8H	25.6	26.0	26.2	26.6	27.2	24.9	25.3	25.5	25.9	26.4
	12H	26.0	26.3	26.5	26.9	27.5	25.0	25.4	25.6	25.9	26.5
12H	4H	24.7	25.2	25.2	25.7	26.3	24.5	25.0	25.1	25.6	26.1
	6H	25.4	25.8	25.9	26.3	26.9	24.8	25.3	25.4	25.8	26.4
	8H	25.7	26.1	26.3	26.6	27.2	25.0	25.3	25.6	25.9	26.5

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