iSign

Last information update: June 2018

Diffused light luminaire - Neutral LED - DALI dimmable electronic control gear

Product code
6791

Technical description
Diffused light luminaire, designed to use LED lamps. Anti UV-treated, polycarbonate, external body and end caps with a ribbed finish to contain any dazzle from direct light. The double cable gland provided allows max 15.5 mm Ø electric cables to be used. The end caps can be released using the stainless steel clips, so scheduled maintenance is tool-free. Complete with pass-through wiring for continuous line installations.

Installation
Horizontal or vertical, single or double pendant / surface (wall and ceiling) installation. For these various types of installation use the optional kits supplied.

Dimension (mm)
Ø80x1630

Colour
Clear transparent (24)

Weight (Kg)
2.95

Mounting
wall surface|ceiling surface|ceiling pendant

Wiring
DALI dimmable electronic control gear integrated in the luminaire. Mains connection made with quick coupling terminal blocks.

Complies with EN60598-1 and pertinent regulations

IP67

Product configuration: 6791

Product characteristics

Total lighting output [Lm]: 3610	Total luminous flux at or above an angle of 90° [Lm]: 498
Total power [W]: 34	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 106.2	Voltage [V]: -
Life Time: 50,000h - L80 - B10 (Ta 25°C)	Ambient temperature range: from -20°C to +35°C.
Number of optical assemblies: 1	

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 83	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 5
Nominal power [W]: 29	Colour temperature [K]: 4000
Nominal luminous [Lm]: 4350	CRI: 80
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: /	MacAdam Step: 3

Polar

Imax=990 cd		C0-180	**CIE**

nL 0.83
42-70-89-86-83
UGR 24.6-20.1
DIN
B.31
UTE
0.72G+0.11T
F"1=416
F"1+F"2=704
F"1+F"2+F"3=887

180°
90° 90°
1050
0°
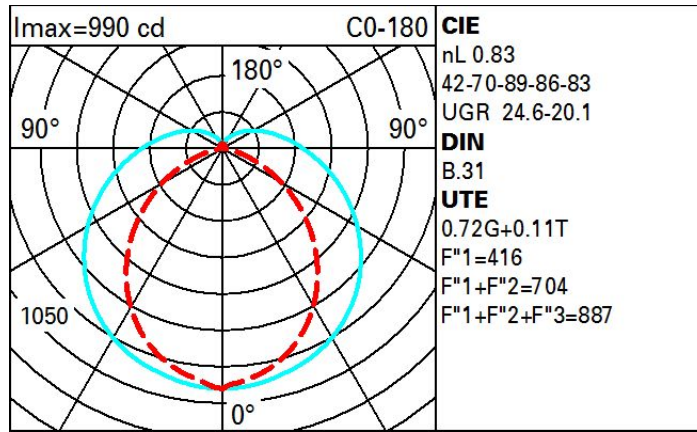
Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	50	41	34	30	38	33	31	25	35
1.0	55	46	40	35	44	38	37	30	41
1.5	63	56	50	45	53	48	45	38	53
2.0	68	62	57	52	58	54	51	44	62
2.5	71	66	61	57	62	58	55	48	67
3.0	73	69	64	61	65	61	58	51	72
4.0	76	72	69	66	68	65	62	55	77
5.0	78	74	71	69	70	68	64	58	80

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

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

8
6
4
2
a
h

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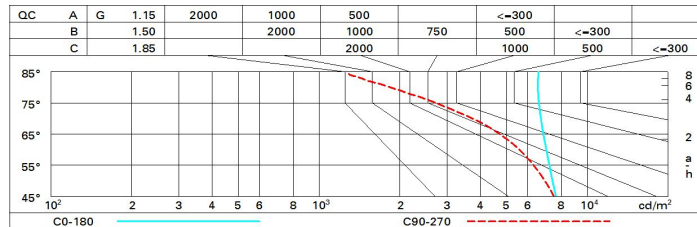
UGR diagram

Corrected UGR values (at 4350 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	18.9	19.9	19.4	20.5	21.0	16.8	17.9	17.3	18.4	19.0
	3H	21.0	21.9	21.5	22.5	23.1	17.4	18.4	18.0	18.9	19.6
	4H	22.0	22.9	22.6	23.5	24.1	17.7	18.7	18.3	19.2	19.8
	6H	23.0	23.9	23.6	24.4	25.1	18.0	18.8	18.5	19.4	20.0
	8H	23.5	24.3	24.1	24.9	25.6	18.0	18.9	18.6	19.4	20.1
	12H	24.0	24.8	24.6	25.4	26.0	18.0	18.8	18.6	19.4	20.1
4H	2H	19.3	20.3	19.9	20.8	21.4	17.9	18.8	18.5	19.4	20.0
	3H	21.7	22.4	22.3	23.0	23.7	18.8	19.6	19.4	20.2	20.9
	4H	22.8	23.5	23.5	24.2	24.9	19.3	20.1	20.0	20.7	21.4
	6H	24.0	24.7	24.7	25.3	26.0	19.9	20.5	20.5	21.2	21.9
	8H	24.6	25.2	25.3	25.9	26.6	20.1	20.7	20.8	21.4	22.1
	12H	25.2	25.8	25.9	26.4	27.2	20.3	20.9	21.0	21.5	22.3
8H	4H	23.1	23.7	23.7	24.3	25.1	19.6	20.2	20.2	20.8	21.6
	6H	24.5	25.0	25.2	25.7	26.4	20.4	20.9	21.0	21.5	22.3
	8H	25.2	25.7	25.9	26.4	27.2	20.8	21.3	21.5	22.0	22.8
	12H	26.0	26.4	26.7	27.1	27.9	21.3	21.7	22.0	22.4	23.2
12H	4H	23.1	23.6	23.7	24.3	25.0	19.6	20.1	20.2	20.8	21.5
	6H	24.6	25.0	25.2	25.7	26.5	20.4	20.8	21.1	21.5	22.3
	8H	25.4	25.7	26.1	26.5	27.3	20.9	21.3	21.6	22.0	22.8

Variations with the observer position at spacing:

S =			
1.0H	0.1 / -0.1		0.1 / -0.1
1.5H	0.2 / -0.2		0.2 / -0.4
2.0H	0.3 / -0.3		0.4 / -0.7