Isola

Design iGuzzini   **iGuzzini**

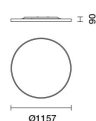Last information update: October 2024

Product configuration: QL90
QL90: Ø1157mm - Tunable White - Microprismatic - DALI

Product code
QL90: Ø1157mm - Tunable White - Microprismatic - DALI

Technical description
Round luminaire for ceiling-mounted installation with option of recessed or pendant installation via an accessory to be ordered separately. Direct emission designed to use Tunable White 2700K÷6500KLED lamps. The optical assembly consists of an extruded painted aluminium frame, a satin finish methacrylate diffuser screen for UGR<19 3000cd/m2 light emission and a sheet metal rear closing base. The DALI DT8 driver is housed in the upper part of the product.

Installation
Ceiling-mounted. Recessed or pendant-mounted using an accessory to be ordered separately.

Colour	Weight (Kg)
White (01)	Black (04)	23.7

Mounting
wall surface|ceiling surface

Wiring
Product complete with electronic components. The electrical cables used are made of a "halogen free" material. (This means that the cables do not contain any halogen materials that in the event of a fire do not emit toxic or corrosive gases and only a small quantity of opaque fumes).
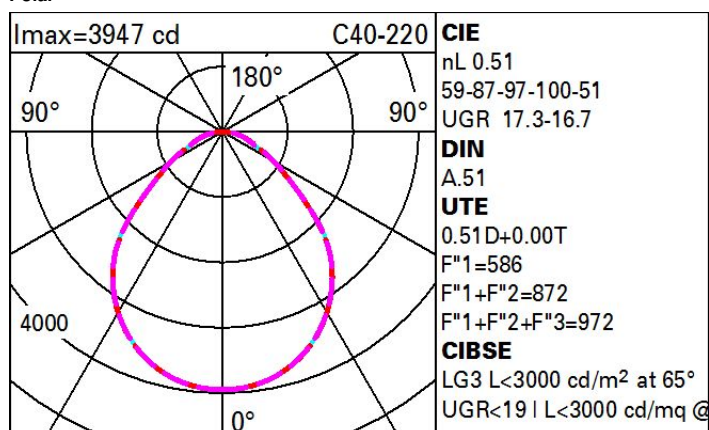
Complies with EN60598-1 and pertinent regulations

IP20   IP43   for optical assembly   CE   ⟨⟨03   S   EAC   QCERT   NOM   UAM   S   CCC pending

Technical data

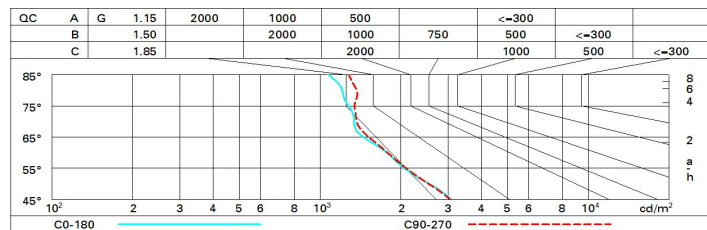|			
lm system:	8670	CRI (minimum):	90
W system:	107.2	Colour temperature [K]:	Tunable white 2700 - 6500
lm source:	17000	Life Time LED 1:	50,000h - L90 - B10 (Ta 25°C)
W source:	96	Lamp code:	LED
Luminous efficiency (lm/W, real value):	80.9	Number of lamps for optical assembly:	1
lm in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	51	Control:	DALI-2

Polar

Imax=3947 cd   C40-220

CIE
nL 0.51
59-87-97-100-51
UGR 17.3-16.7
DIN
A.51
UTE
0.51D+0.00T
F"1=586
F"1+F"2=872
F"1+F"2+F"3=972
CIBSE
LG3 L<3000 cd/m² at 65°
UGR<19 | L<3000 cd/mq @

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	36	31	28	25	31	28	27	24	48
1.0	39	35	32	29	34	31	31	28	55
1.5	44	41	38	36	40	37	37	34	67
2.0	47	44	42	40	43	41	41	38	75
2.5	49	46	44	43	45	44	43	41	80
3.0	50	48	46	45	47	45	45	42	83
4.0	51	49	48	47	48	47	46	44	87
5.0	52	51	49	48	49	48	48	46	89

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 17000 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	14.8	15.8	15.1	16.1	16.4	14.7	15.8	15.0	16.0	16.3
	3H	15.6	16.5	15.9	16.8	17.1	15.0	15.9	15.4	16.2	16.5
	4H	15.9	16.8	16.3	17.1	17.4	15.1	16.0	15.4	16.3	16.6
	6H	16.2	17.0	16.6	17.4	17.7	15.1	15.9	15.5	16.2	16.6
	8H	16.4	17.1	16.7	17.5	17.8	15.1	15.9	15.5	16.2	16.6
	12H	16.4	17.2	16.8	17.5	17.9	15.1	15.8	15.5	16.2	16.5
4H	2H	15.2	16.0	15.5	16.3	16.6	15.9	16.8	16.3	17.1	17.4
	3H	16.1	16.9	16.5	17.2	17.6	16.4	17.1	16.8	17.5	17.8
	4H	16.6	17.3	17.0	17.7	18.1	16.6	17.2	17.0	17.6	18.0
	6H	17.1	17.7	17.5	18.1	18.5	16.7	17.3	17.1	17.7	18.1
	8H	17.3	17.8	17.7	18.2	18.7	16.7	17.3	17.2	17.7	18.1
	12H	17.4	17.9	17.8	18.3	18.8	16.8	17.2	17.2	17.7	18.1
8H	4H	16.8	17.4	17.3	17.8	18.2	17.3	17.8	17.7	18.2	18.7
	6H	17.4	17.9	17.9	18.3	18.8	17.5	18.0	18.0	18.4	18.9
	8H	17.7	18.1	18.2	18.6	19.1	17.6	18.0	18.1	18.5	19.0
	12H	17.9	18.3	18.4	18.7	19.3	17.7	18.1	18.2	18.6	19.1
12H	4H	16.8	17.3	17.3	17.7	18.2	17.4	17.9	17.9	18.3	18.8
	6H	17.5	17.9	18.0	18.3	18.8	17.7	18.1	18.2	18.6	19.1
	8H	17.8	18.1	18.3	18.6	19.2	17.9	18.2	18.4	18.7	19.2

Variations with the observer position at spacing:

S =	1.0H	0.3 / -0.3	0.3 / -0.3
	1.5H	0.4 / -0.8	0.5 / -0.8
	2.0H	1.1 / -1.2	1.1 / -1.1