iRoll

Design iGuzzini	iGuzzini

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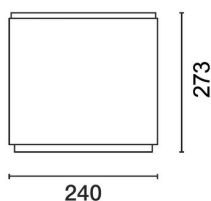**Product configuration: MR78**
MR78: Ceiling-mounted luminaire - warm LED - Controlled luminance UGR < 19 - DALI dimmable control gear

Product code
MR78: Ceiling-mounted luminaire - warm LED - Controlled luminance UGR < 19 - DALI dimmable control gear **Attention! Code no longer in production**

Technical description
LED lamp, ceiling-mounted luminaire; integrated DALI dimmable control gear. Die-cast aluminium plate for surface mounting with diffuser element; technical, shaped aluminium sheet brackets for components and optics; comfort reflector vacuum-metallised with aluminium vapours and finished with a protective anti-scratch layer - controlled luminance optic; safety glass cover over LED lamp; lathe-shaped aluminium cylindrical body; lower ring in high resistance polycarbonate.

Installation
Plate fixed to ceiling using screws and screw anchors (not included); bayonet assembly systems ensuring simple installation and maintenance; snap-on spring fastening for reflector. Wall or pendant application option available thanks to special accessory kits with a separate code.

Colour	Weight (Kg)
White (01)	Grey (15)	3.1

Mounting
wall surface|ceiling surface|ceiling pendant

Wiring
Control gear integrated in luminaire; mains and optic unit connections made with quick coupling terminal blocks. Touch-dim push-button dimming option (see instruction sheet)

Notes
Kit for wall-mounting: code no. 9443 - kit for steel cable pendant system L 1500: code no. 9441
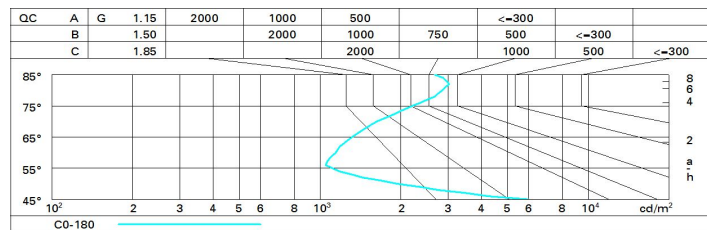
Complies with EN60598-1 and pertinent regulations

IP23

Technical data

lm system:	3358	Colour temperature [K]:	3000
W system:	28.8	MacAdam Step:	2
lm source:	4000	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
W source:	25	Ballast losses [W]:	3.8
Luminous efficiency (lm/W, real value):	116.6	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	84	Number of optical assemblies:	1
CRI:	80	Control:	DALI

Polar

Imax=3914 cd

CIE
nL 0.84
96-99-100-100-84
UGR 16.0-15.7
DIN
A.61
UTE
0.84A+0.00T
F"1=961
F"1+F"2=989
F"1+F"2+F"3=996

4000

273

240

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	74	70	67	65	69	67	66	63	76
1.0	78	74	71	69	73	71	70	67	80
1.5	82	79	77	75	78	76	75	73	87
2.0	85	83	81	79	82	80	79	77	91
2.5	86	85	84	82	84	82	82	79	94
3.0	88	86	85	84	85	84	83	81	96
4.0	89	88	87	86	86	86	85	82	98
5.0	89	89	88	88	87	87	85	83	99

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

UGR diagram

Corrected UGR values (at 4000 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	15.9	16.6	16.2	16.8	17.1	15.9	16.6	16.2	16.8	17.1
	3H	15.8	16.4	16.2	16.7	17.0	15.8	16.4	16.1	16.7	16.9
	4H	15.8	16.4	16.2	16.7	17.0	15.7	16.3	16.1	16.6	16.9
	6H	15.9	16.4	16.3	16.7	17.1	15.7	16.2	16.0	16.5	16.8
	8H	15.9	16.4	16.3	16.8	17.1	15.6	16.1	16.0	16.4	16.8
	12H	16.0	16.4	16.3	16.8	17.1	15.6	16.1	16.0	16.4	16.7
4H	2H	15.7	16.3	16.1	16.6	16.9	15.8	16.4	16.2	16.7	17.0
	3H	15.7	16.1	16.1	16.5	16.8	15.8	16.2	16.1	16.6	16.9
	4H	15.7	16.1	16.1	16.5	16.9	15.7	16.1	16.1	16.5	16.9
	6H	15.9	16.2	16.3	16.6	17.0	15.7	16.1	16.1	16.5	16.9
	8H	16.0	16.3	16.4	16.7	17.1	15.7	16.0	16.1	16.4	16.9
	12H	16.0	16.3	16.5	16.7	17.2	15.7	16.0	16.1	16.4	16.8
8H	4H	15.7	16.0	16.1	16.4	16.9	16.0	16.3	16.4	16.7	17.1
	6H	15.9	16.2	16.4	16.6	17.1	16.0	16.3	16.5	16.7	17.2
	8H	16.1	16.3	16.5	16.8	17.3	16.1	16.3	16.5	16.8	17.3
	12H	16.2	16.4	16.7	16.9	17.4	16.1	16.3	16.6	16.8	17.3
12H	4H	15.7	16.0	16.1	16.4	16.8	16.0	16.3	16.5	16.7	17.2
	6H	15.9	16.2	16.4	16.6	17.1	16.1	16.3	16.6	16.8	17.3
	8H	16.1	16.3	16.6	16.8	17.3	16.2	16.4	16.7	16.9	17.4

Variations with the observer position at spacing:

S =	1.0H	4.7 / -4.3	4.7 / -4.3
	1.5H	7.4 / -4.5	7.4 / -4.5
	2.0H	9.4 / -4.4	9.4 / -4.4