Tecnica Evo

Design iGuzzini **iGuzzini**

Last information update: January 2025

Product configuration: RM98.01
RM98.01: Adjustable recessed spotlight - body Ø92 - High Output - Flood optic - 27.6W 3249lm - 4000K - White

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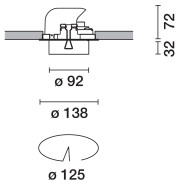
Technical description
Adjustable spotlight for recessed installation. Load-bearing structure with contact frame and die-cast aluminium, adjustable lighting body. Steel wire fixing springs. Coupling and rotation element in high resistance plastic, designed as a stylish internal cover and a practical recessed mounting. Available rotation: 359° - Adjustability: +60° (external) -20° (internal). Optical assembly featuring a high performance LED lamp for optimum flux yield. The anti-scratch reflector made of P.V.D (Physical Vapour Deposition) aluminium provides optimum performance levels in terms of yield. Supplied with a dimmable DALI power supply unit connected to the luminaire. Possibility of installing a flat frontal accessory - glass cover or an elliptical distribution refractor. Interchangeable spotlights in all openings available as accessories.

Installation
Recessed in false ceiling - fixed via steel wire springs for thicknesses from 1 to 25 mm.



Colour	Weight (Kg)
White (01)	0.69

Mounting
ceiling recessed

Wiring
Direct power line connection via the terminals on the power supply unit included.

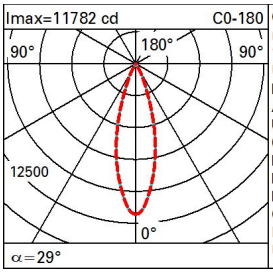
Complies with EN60598-1 and pertinent regulations

IP20

Technical data

lm system:	3249	CRI (minimum):	80
W system:	27.6	Colour temperature [K]:	4000
lm source:	3610	MacAdam Step:	2
W source:	24	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	117.7	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.) [%]:	90	Number of optical assemblies:	1
Beam angle [°]:	29°	Control:	DALI-2

Polar



CIE
nL 0.90
100-100-100-100-90
UGR <10-<10
DIN
A.61
UTE
0.90A+0.00T
F"1=997
F"1+F"2=1000
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 | L<1500 cd/mq @65°

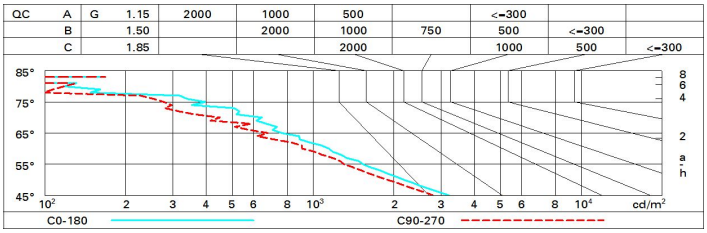
Lux

h	d1	d2	Em	Emax
2	1.1	1.1	2228	2945
4	2.1	2.1	557	736
6	3.2	3.2	248	327
8	4.2	4.3	139	184

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	81	77	74	72	76	74	73	70	78
1.0	85	81	78	76	80	78	77	75	83
1.5	89	86	84	82	85	83	82	80	89
2.0	92	90	88	87	88	87	86	84	93
2.5	93	92	91	90	91	89	89	86	96
3.0	95	94	93	92	92	91	90	88	98
4.0	96	95	94	94	93	93	92	89	99
5.0	96	96	95	95	94	94	92	90	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 3610 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 crosswise					viewed endwise		
x	y										
2H	2H	7.0	7.5	7.3	7.8	8.0	6.5	7.1	6.8	7.3	7.5
	3H	6.9	7.4	7.2	7.6	7.9	6.4	6.9	6.7	7.2	7.4
	4H	6.8	7.3	7.2	7.6	7.9	6.4	6.8	6.7	7.1	7.4
	6H	6.8	7.2	7.1	7.5	7.8	6.3	6.7	6.6	7.0	7.3
	8H	6.7	7.1	7.1	7.4	7.8	6.2	6.6	6.6	7.0	7.3
	12H	6.7	7.1	7.1	7.4	7.7	6.2	6.6	6.6	6.9	7.3
4H	2H	6.8	7.3	7.1	7.5	7.8	6.4	6.8	6.7	7.1	7.4
	3H	6.7	7.1	7.1	7.4	7.8	6.2	6.6	6.6	6.9	7.3
	4H	6.6	6.9	7.0	7.3	7.7	6.1	6.5	6.5	6.8	7.2
	6H	6.5	6.8	6.9	7.2	7.6	6.0	6.3	6.5	6.7	7.1
	8H	6.5	6.7	6.9	7.2	7.6	6.0	6.3	6.4	6.7	7.1
	12H	6.4	6.7	6.9	7.1	7.5	5.9	6.2	6.4	6.6	7.1
8H	4H	6.5	6.7	6.9	7.2	7.6	6.0	6.3	6.4	6.7	7.1
	6H	6.4	6.6	6.8	7.0	7.5	5.9	6.1	6.4	6.6	7.0
	8H	6.3	6.5	6.8	7.0	7.5	5.8	6.0	6.3	6.5	7.0
	12H	6.3	6.4	6.8	6.9	7.4	5.8	6.0	6.3	6.4	7.0
12H	4H	6.4	6.7	6.9	7.1	7.5	5.9	6.2	6.4	6.6	7.1
	6H	6.3	6.5	6.8	7.0	7.5	5.8	6.0	6.3	6.5	7.0
	8H	6.3	6.4	6.8	6.9	7.4	5.8	6.0	6.3	6.4	7.0

Variations with the observer position at spacing:

S =			
	1.0H	6.9 / -11.0	6.9 / -11.3
	1.5H	9.7 / -12.9	9.7 / -13.2
	2.0H	11.7 / -14.7	11.7 / -15.2