Design iGuzzini

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#### Product code MQ90

Last information update: May 2018

#### Technical description

rectangular miniaturised recessed luminaire with 5 optical elements with LED lamps - fixed optics - wide flood beam angle. Main body with die-cast aluminium radiant surface, minimal (frameless) version for mounting flush with the ceiling. Metallised thermoplastic high definition optics, integrated in a rear position in the black anti-glare screen; the structure of the optical system prevents a pinpoint effect, allowing precise, circular light distribution and emission with controlled glare . Supplied with DALI dimmable electronic control gear connected to the luminaire. Warm white high colour rendering LED

5 - cell Frameless Recessed luminaire - LED - Warm white - Incorporated DALI dimmable power supply - Wide Flood optic

## Installation

56

recessed with steel wire springs on the specific adapter (included) which allows flush-mounting with the ceiling. Adapter fixed to false ceiling (12.5 mm thick) with self-tapping screws; subsequent filling and smoothing operations; insertion of luminaire body and aesthetic finishing. Preparation hole 35 x 139



132



# Dimension (mm) 132x30x56

Colour White (01) | Black (04) | (E6)

## Weight (Kg)

0.36

### Mounting

wall recessed|ceiling recessed

## Wiring

on control gear box; screw connections with terminal block included



### Product configuration: MQ90

Product characteristics Total lighting output [Lm]: 704.9 Total power [W]: 15 Luminous efficacy [Lm/W]: 47 Life Time: 50,000h - L90 - B10 (Ta 25°C)	Total luminous flux at or above an angle of 90° [Lm]: 0 Emergency luminous flux [Lm]: / Voltage [V]: - Number of optical assemblies: 1
<b>Optical assembly Characteristics Type 1</b> Light Output Ratio (L.O.R.) [%]: 83 Lamp code: LED ZVEI Code: LED Nominal power [W]: 10 Nominal luminous [Lm]: 850 Lamp maximum intensity [cd]: / Beam angle [°]: 48°	Number of lamps for optical assembly: 1 Socket: / Ballast losses [W]: 5 Colour temperature [K]: 3000 CRI: 95 Wavelength [Nm]: / MacAdam Step: 3

#### Polar Imax=1248 cd CIE Lux nL 0.83 90° 100-100-100-83 180° 90° h d Em Emax UGR <10-<10 DIN 1 0.9 1045 1246 A 61 UTE 0.83A+0.00T 2 1.8 261 311 F"1=999 F"1+F"2=1000 1000 3 138 2.7 116 F"1+F"2+F"3=1000 CIBSE LG3 L<200 cd/m<sup>2</sup> at 65° 0° 3.6 78 4 65 BZ1 α=48°

Complies with EN60598-1 and pertinent regulations

Utilisation	factors
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R	77	75	73	71	55	53	33	00	DRR
K0.8	75	71	68	66	70	68	68	65	78
1.0	78	75	72	70	74	72	71	69	83
1.5	82	79	77	76	79	77	76	74	89
2.0	85	83	81	80	82	80	79	77	93
2.5	86	85	84	83	84	83	82	79	96
3.0	87	86	85	85	85	84	83	81	98
4.0	88	87	87	86	86	86	84	82	99
5.0	89	88	88	88	87	86	85	83	100

# UGR diagram

Rifle	t.											
ceil/cav walls work pl.		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	
		0.50	0.30	0.50 0.20	0.30	0.30	0.50	0.30	0.50	0.30	0.30	
										0.20		
Room dim		viewed					viewed					
x	У		crosswise				endwise					
2H	2H	1.2	1.6	1.4	1.9	2.1	1.2	1.6	1.4	1.9	2.	
	ЗН	1.0	1.5	1.3	1.7	2.0	1.0	1.5	1.3	1.7	2.0	
	4H	1.0	1.4	1.3	1.7	2.0	1.0	1.4	1.3	1.7	2.0	
	6H	0.9	1.3	1.2	1.6	1.9	0.9	1.3	1.2	1.6	1.9	
	BH	0.9	1.2	1.2	1.5	1.9	0.9	1.2	1.2	1.5	1.9	
	12H	8.0	1.2	1.2	1.5	1.9	8.0	1.2	1.2	1.5	1.8	
4H	2H	1.0	1.4	1.3	1.7	2.0	1.0	1.4	1.3	1.7	2.0	
	ЗH	8.0	1.2	1.2	1.5	1.8	8.0	1.2	1.2	1.5	1.9	
	4H	0.7	1.0	1.1	1.4	1.8	0.7	1.0	1.1	1.4	1.	
	6H	0.6	0.9	1.1	1.3	1.7	0.6	0.9	1.1	1.3	1.	
	HS	0.6	8.0	1.0	1.3	1.7	0.6	8.0	1.0	1.3	1.	
	12H	0.5	8.0	1.0	1.2	1.7	0.5	8.0	1.0	1.2	1.	
вн	4H	0.6	8.0	1.0	1.3	1.7	0.6	8.0	1.0	1.3	1.	
	6H	0.5	0.7	1.0	1.2	1.6	0.5	0.7	1.0	1.2	1.0	
	8H	0.4	0.6	0.9	1.1	1.6	0.4	0.6	0.9	1.1	1.0	
	12H	0.4	0.5	0.9	1.0	1.6	0.4	0.5	0.9	1.0	1.	
12H	4H	0.5	8.0	1.0	1.2	1.7	0.5	8.0	1.0	1.2	1.	
	бH	0.4	0.6	0.9	1.1	1.6	0.4	0.6	0.9	1.1	1.0	
	H8	0.4	0.5	0.9	1.0	1.5	0.4	0.5	0.9	1.0	1.	
Varia	tions wi	th the ol	bserver	osition	at spacir	ng:				_		
S =	1.0H	6.9 / -18.0						6.9 / -18.0				
	1.5H		9	.7 / -18	.3	9.7 / -18.3						