Design iGuzzini

march 2017

iGuzzini

Laser Blade

code MM77



#### Technical description

rectangular miniaturised recessed luminaire with 5 optical elements with LED lamps - fixed optics - flood beam angle. Main body with die-cast aluminium radiant surface, version with perimeter surface frame. 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.

#### Installation

Size (mm) 148x44x54

Colour

recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 37 x 141

White (01) | White/Brass (41) | Nero/Nero (43) | White / Black (47) | Grey / Black (74) | white / chrome burnished (E7)

148 4 Decemp



54

141x37

Weight (kg) 0.29

#### Mounting

wall recessed | ceiling recessed

#### Wiring info

on control gear box; screw connections with terminal block included

IP23 On the visible part of the product once installed IP20



#### Product configuration: MM77+LED LED: LED WARM 2700 K CRI>90

#### **Product characteristics**

Total lighting output [Lm]: 678.9 Total power [W]: 13 Luminous efficacy (Im/W, real value): 52.2 Life Time: 50,000h - L90 - B10 (Ta 25°C)

### **Optical assembly Characteristics 1**

Light Output Ratio (L.O.R.) [%]: 80 Lamp code: LED ZVEI Code: LED Nominal power [W]: 10 Nominal luminous [Lm]: 850 Lamp maximum intensity [cd]: / Beam angle [°]: 32°

Total luminous flux at or above an angle of 90° [Lm]: 0 Emergency luminous flux [Lm]: / Voltage [V]: -Number of optical assemblies: 1

Number of lamps for optical assembly: 1 Socket: / Ballast losses [W]: 3 Colour temperature [K]: 2700 CRI: 95 Wavelength [nm]: / MacAdam Step: <3

Complies with EN60598-1 and pertinent regulations



i elai						
	Imax=2330 cd	CIE	Lux			
	190° 180° 90°	nL 0.80 100-100-100-100-80 UGR <10-<10	h	d	Em	Emax
		DIN A.61	2	1.1	448	582
	$\Lambda X I X \Lambda$	UTE 0.80A+0.00T F"1=1000	4	2.3	112	146
13 W		F"1+F"2=1000 F"1+F"2+F"3=1000 CIBSE	6	3.4	50	65
LED - /	α=32°	LG3 L<200 cd/m <sup>2</sup> at 65° BZ1	8	4.6	28	36

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	72	69	66	64	68	66	65	63	78
1.0	75	72	70	68	71	69	69	66	83
1.5	79	77	75	73	76	74	73	71	89
2.0	81	80	78	77	79	77	76	74	93
2.5	83	82	81	80	80	79	79	77	96
3.0	84	83	82	81	82	81	80	78	98
4.0	85	84	84	83	83	82	81	79	99
5.0	85	85	85	84	84	83	82	80	100

## UGR diagram

	3	-					\$7				
Rifled	ct.:										
ceil/cav walls work pl. Room dim		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
		0.50 0.20	0.30 0.20	0.50 0.20	0.30 0.20	0.30 0.20	0.50 0.20	0.30	0.50 0.20	0.30 0.20	0.30
								0.20			0.2
		viewed					viewed				
x	У	·	C	crosswis	e				endwise	P.	
2H	2H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	ЗH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
	4H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
	6H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	BH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	12H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4H	2H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	ЗH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	4H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	6H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	HS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
	12H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
вн	4H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
	6H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
	BH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	12H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12H	4H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	6H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	8H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Varia	tions wi	th the ol	oserver p	osition	at spacir	ng:					
S =	1.0H	6.8 / -18.5					6.8 / -18.5				
	1.5H	9.6 / -18.7					9.6 / -18.7				