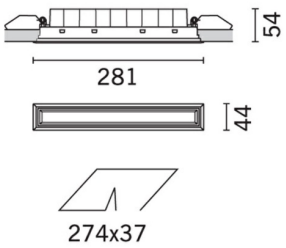
Laser Blade

Design iGuzzini **iGuzzini**

Last information update: May 2018



Recessed frame - LED - Warm white - Incorporated DALI dimmable power supply - Diffused lighting

Product code
MQ63

Technical description
Miniaturized recessed rectangular luminaire with LEDs. Main body with die-cast aluminium radiant surface, version with perimeter surface frame. Optical system designed for diffused lighting distribution. Flux enhancer - superpure aluminium reflector - microprism screen in transparent PMMA with optimised geometry texture; a special film in acrylic material, combined with the screen, allow for a comfortable level of lighting diffusion. Black polycarbonate internal perimeter frame. Supplied with DALI dimmable control gear connected to the luminaire. Warm white LED.

Installation
recessed with steel springs for false ceilings from 1 to 25 mm; can be installed on cealings and walls (vertical + horizontal) - preparation slot 37 x 274

Dimension (mm)
281x44x54

Colour
Black/Black (43) | Black/White (47) | Grey/Black (74)

Weight (Kg)
0.65

Mounting
wall recessed|ceiling recessed

Wiring
on power box: screw connections

Notes
dimming function with pushbutton (TOUCH DIM/PUSH): for this option consult the instructions included in the package

Complies with EN60598-1 and pertinent regulations

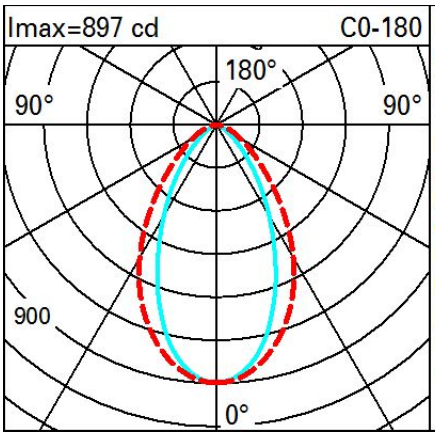
IP20 IP43 On the visible part of the product once installed

Product configuration: MQ63

Product characteristics
Total lighting output [Lm]: 1049.2
Total power [W]: 24.5
Luminous efficacy [Lm/W]: 42.8
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

Optical assembly Characteristics Type 1
Light Output Ratio (L.O.R.) [%]: 57
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 21
Nominal luminous [Lm]: 1840
Lamp maximum intensity [cd]: /
Beam angle [°]: /
Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 3.5
Colour temperature [K]: 3000
CRI: 90
Wavelength [Nm]: /
MacAdam Step: 3

Polar

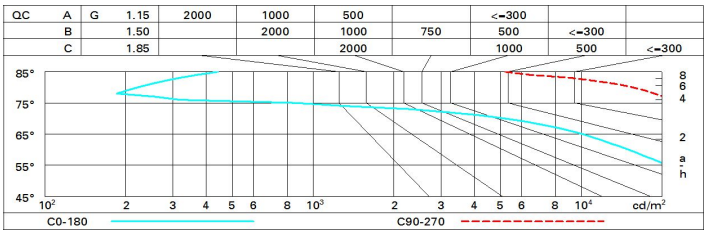


CIE
nL 0.57
75-95-100-100-57
UGR 21.9-26.1
DIN
A.61
UTE
0.57 B+0.00T
F"1=749
F"1+F"2=947
F"1+F"2+F"3=996
CIBSE
BZ1

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	45	41	38	35	40	37	37	34	60
1.0	48	44	41	39	43	41	41	38	66
1.5	53	50	47	45	49	47	46	44	76
2.0	55	53	51	49	52	50	50	47	83
2.5	57	55	53	52	54	52	52	50	87
3.0	58	56	55	54	55	54	53	51	90
4.0	59	58	57	56	57	56	55	53	93
5.0	59	58	58	57	57	57	56	54	94

Luminance curve limit



UGR diagram

Corrected UGR values (at 1840 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	21.7	22.5	22.0	22.7	23.0	25.2	26.0	25.5	26.3	26.5
	3H	21.7	22.5	22.0	22.7	23.0	25.2	26.0	25.6	26.3	26.6
	4H	21.6	22.3	22.0	22.6	22.9	25.2	25.9	25.5	26.2	26.5
	6H	21.5	22.2	21.9	22.5	22.8	25.1	25.8	25.5	26.1	26.4
	8H	21.5	22.1	21.9	22.5	22.8	25.1	25.7	25.5	26.0	26.4
	12H	21.5	22.1	21.9	22.4	22.8	25.1	25.6	25.4	26.0	26.3
4H	2H	22.1	22.8	22.4	23.1	23.4	26.0	26.8	26.4	27.0	27.4
	3H	22.1	22.7	22.5	23.1	23.4	26.2	26.8	26.6	27.1	27.5
	4H	22.1	22.6	22.5	23.0	23.4	26.2	26.7	26.6	27.1	27.5
	6H	22.0	22.4	22.4	22.8	23.3	26.1	26.6	26.6	27.0	27.4
	8H	21.9	22.4	22.4	22.8	23.2	26.1	26.5	26.5	26.9	27.4
	12H	21.9	22.3	22.4	22.7	23.2	26.0	26.4	26.5	26.8	27.3
8H	4H	22.1	22.5	22.5	22.9	23.3	26.3	26.7	26.8	27.2	27.6
	6H	22.0	22.3	22.5	22.8	23.3	26.3	26.6	26.7	27.1	27.5
	8H	21.9	22.2	22.4	22.7	23.2	26.2	26.5	26.7	27.0	27.5
	12H	21.9	22.1	22.4	22.6	23.1	26.2	26.4	26.7	26.9	27.4
12H	4H	22.0	22.4	22.5	22.8	23.3	26.3	26.7	26.8	27.1	27.6
	6H	21.9	22.2	22.4	22.7	23.2	26.2	26.5	26.7	27.0	27.5
	8H	21.9	22.2	22.4	22.6	23.2	26.2	26.5	26.7	26.9	27.5

Variations with the observer position at spacing:

S =			
	1.0H	1.4 / -2.0	0.4 / -0.7
	1.5H	2.2 / -4.2	1.5 / -1.6
	2.0H	3.5 / -6.6	2.8 / -2.3