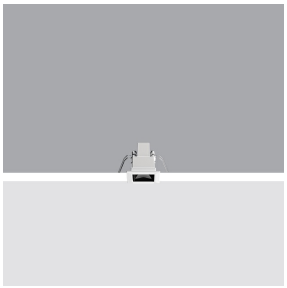
Laser Blade

Design iGuzzini **iGuzzini**

Last information update: February 2025

Product configuration: EJ70
EJ70: Square Recessed luminaire - LED - Warm white - Flood optic



Product code
EJ70: Square Recessed luminaire - LED - Warm white - Flood optic

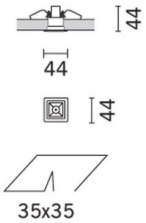
Technical description
square miniaturised recessed luminaire for single LED - fixed optic - flood beam angle. Main body with die-cast aluminium radiant surface, version with perimeter surface frame. Metallised thermoplastic high definition optic, integrated in a rear position in the black anti-glare screen. Connecting cable supplied. Ballast not included, available with separate code. Warm white LED.

Installation
recessed with steel wire springs for false ceilings from 1 to 20 mm thick - preparation hole 35 x 35

Colour
White (01) | Black / Black (43) | Black / White (47) | White/Gold (41)* | Grey / Black (74)* | White / burnished chrome (E7)*

Weight (Kg)
0.05

* Colours on request



Mounting
wall recessed|ceiling recessed

Wiring
direct current ballasts to be ordered separately: electronic (MXF9) for max. 7 LEDs; DALI dimmable (BZM4) for max. 20 LEDs (check instructions leaflet for compatible lengths of cables to be used)

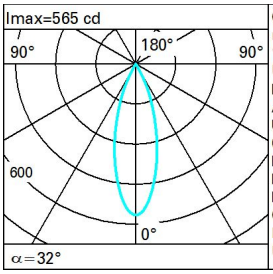
Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

Technical data

lm system:	179	CRI (typical):	92
W system:	2	Colour temperature [K]:	2700
lm source:	210	MacAdam Step:	3
W source:	2	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	89.3	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.) [%]:	85	Number of optical assemblies:	1
Beam angle [°]:	32°	LED current [mA]:	700
CRI (minimum):	90		

Polar



CIE
nL 0.85
100-100-100-100-85
UGR <10-<10
DIN
A.61
UTE
0.85A+0.00T
F"1=1000
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	d	Em	Emax
1	0.6	431	565
2	1.1	108	141
3	1.7	48	63
4	2.3	27	35

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	77	73	70	68	72	70	69	67	78
1.0	80	77	74	72	76	74	73	71	83
1.5	84	81	79	78	80	79	78	75	89
2.0	87	85	83	82	84	82	81	79	93
2.5	88	87	86	85	86	85	84	81	96
3.0	89	88	88	87	87	86	85	83	98
4.0	90	90	89	89	88	88	87	84	99
5.0	91	90	90	90	89	89	87	85	100

UGR diagram

Corrected UGR values (at 210 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 x	y	viewed crosswise					viewed endwise				
2H	2H	-3.0	-2.5	-2.7	-2.2	-2.0	-3.0	-2.5	-2.7	-2.2	-2.0
	3H	-3.1	-2.6	-2.8	-2.4	-2.1	-3.1	-2.6	-2.8	-2.4	-2.1
	4H	-3.2	-2.8	-2.9	-2.5	-2.2	-3.2	-2.8	-2.9	-2.5	-2.2
	6H	-3.3	-2.9	-2.9	-2.6	-2.2	-3.3	-2.9	-2.9	-2.6	-2.2
	8H	-3.3	-2.9	-3.0	-2.6	-2.3	-3.3	-2.9	-3.0	-2.6	-2.3
	12H	-3.4	-3.0	-3.0	-2.6	-2.3	-3.4	-3.0	-3.0	-2.6	-2.3
4H	2H	-3.2	-2.8	-2.9	-2.5	-2.2	-3.2	-2.8	-2.9	-2.5	-2.2
	3H	-3.4	-3.0	-3.0	-2.6	-2.3	-3.4	-3.0	-3.0	-2.6	-2.3
	4H	-3.4	-3.1	-3.0	-2.7	-2.4	-3.4	-3.1	-3.0	-2.7	-2.4
	6H	-3.5	-3.2	-3.1	-2.8	-2.4	-3.5	-3.2	-3.1	-2.8	-2.4
	8H	-3.6	-3.3	-3.1	-2.9	-2.5	-3.6	-3.3	-3.1	-2.9	-2.5
	12H	-3.6	-3.4	-3.2	-3.0	-2.5	-3.6	-3.4	-3.2	-3.0	-2.5
8H	4H	-3.6	-3.3	-3.1	-2.9	-2.5	-3.6	-3.3	-3.1	-2.9	-2.5
	6H	-3.7	-3.5	-3.2	-3.0	-2.5	-3.7	-3.5	-3.2	-3.0	-2.5
	8H	-3.7	-3.5	-3.2	-3.1	-2.6	-3.7	-3.5	-3.2	-3.1	-2.6
	12H	-3.8	-3.6	-3.3	-3.1	-2.6	-3.8	-3.6	-3.3	-3.1	-2.6
12H	4H	-3.6	-3.4	-3.2	-3.0	-2.5	-3.6	-3.4	-3.2	-3.0	-2.5
	6H	-3.7	-3.5	-3.2	-3.1	-2.6	-3.7	-3.5	-3.2	-3.1	-2.6
	8H	-3.8	-3.6	-3.3	-3.1	-2.6	-3.8	-3.6	-3.3	-3.1	-2.6

Variations with the observer position at spacing:

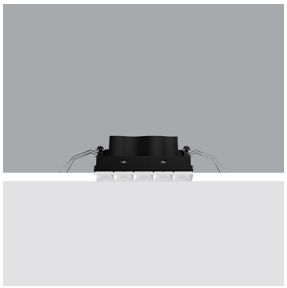
S =			
	1.0H	6.9 / -25.5	6.9 / -25.5
	1.5H	9.7 / -26.0	9.7 / -26.0
	2.0H	11.7 / -26.8	11.7 / -26.8

Laser Blade

Design iGuzzini **iGuzzini**

Last information update: February 2025

Product configuration: RB56.01
RB56.01: Minimal 5 cells - Flood - LED - White

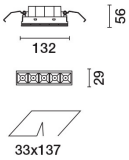


Product code
RB56.01: Minimal 5 cells - Flood - LED - White

Technical description
Linear miniaturised recessed luminaire with 5 optical elements for LED lamps - fixed optic. Die-cast aluminium body, minimal version (frameless) installed flush with ceiling. For recessed installation in a false ceiling a specific adapter is required that is available with a separate item code. Metallised thermoplastic high definition OptiBeam reflector, 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 a dimmable DALI power supply unit connected to the luminaire.

Installation
The recess body is inserted in the specific adapter installed previously by means of a steel wire spring - check the thickness of the false ceiling and use a compatible frame available with a separate item code.

Colour	**Weight (Kg)**
White (01)	0.28



Mounting
wall recessed|ceiling recessed

Wiring
Quick-coupling connections on the ballast unit.

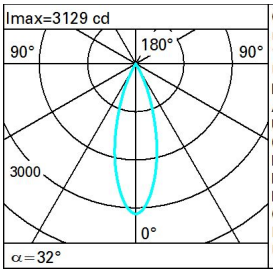
Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

Technical data

lm system:	932	CRI (typical):	92
W system:	13	Colour temperature [K]:	3500
lm source:	1150	MacAdam Step:	3
W source:	9.9	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	71.7	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.) [%]:	81	Number of optical assemblies:	1
Beam angle [°]:	32°	Control:	DALI-2
CRI (minimum):	90		

Polar



CIE
nL 0.81
100-100-100-100-81
UGR <10-<10
DIN
A.61
UTE
0.81A+0.00T
F"1=1000
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	d	Em	Emax
2	1.1	594	782
4	2.3	149	196
6	3.4	66	87
8	4.6	37	49

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	73	70	67	65	69	66	66	64	78
1.0	76	73	71	69	72	70	70	67	83
1.5	80	78	76	74	77	75	74	72	89
2.0	83	81	79	78	80	78	78	75	93
2.5	84	83	82	81	82	81	80	78	96
3.0	85	84	83	83	83	82	81	79	98
4.0	86	85	85	84	84	84	82	81	99
5.0	87	86	86	86	85	84	83	81	100

UGR diagram

Corrected UGR values (at 1150 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	-7.7	-7.1	-7.4	-6.9	-6.7	-7.7	-7.1	-7.4	-6.9	-6.7
	3H	-7.8	-7.3	-7.5	-7.1	-6.8	-7.8	-7.3	-7.5	-7.1	-6.8
	4H	-7.9	-7.4	-7.5	-7.1	-6.8	-7.9	-7.4	-7.5	-7.1	-6.8
	6H	-7.9	-7.5	-7.6	-7.2	-6.9	-7.9	-7.5	-7.6	-7.2	-6.9
	8H	-8.0	-7.6	-7.6	-7.2	-6.9	-8.0	-7.6	-7.6	-7.3	-6.9
	12H	-8.0	-7.6	-7.6	-7.3	-6.9	-8.0	-7.6	-7.6	-7.3	-7.0
4H	2H	-7.9	-7.4	-7.5	-7.1	-6.8	-7.9	-7.4	-7.5	-7.1	-6.8
	3H	-8.0	-7.6	-7.6	-7.3	-6.9	-8.0	-7.6	-7.6	-7.3	-6.9
	4H	-8.1	-7.8	-7.7	-7.4	-7.0	-8.1	-7.8	-7.7	-7.4	-7.0
	6H	-8.2	-7.9	-7.7	-7.5	-7.1	-8.2	-7.9	-7.8	-7.5	-7.1
	8H	-8.2	-7.9	-7.8	-7.5	-7.1	-8.2	-8.0	-7.8	-7.5	-7.1
	12H	-8.2	-8.0	-7.8	-7.6	-7.1	-8.3	-8.0	-7.8	-7.6	-7.1
8H	4H	-8.2	-8.0	-7.8	-7.5	-7.1	-8.2	-7.9	-7.8	-7.5	-7.1
	6H	-8.3	-8.1	-7.8	-7.6	-7.2	-8.3	-8.1	-7.8	-7.6	-7.2
	8H	-8.3	-8.2	-7.9	-7.7	-7.2	-8.3	-8.2	-7.9	-7.7	-7.2
	12H	-8.4	-8.2	-7.9	-7.7	-7.2	-8.4	-8.2	-7.9	-7.7	-7.2
12H	4H	-8.3	-8.0	-7.8	-7.6	-7.1	-8.2	-8.0	-7.8	-7.6	-7.1
	6H	-8.4	-8.2	-7.9	-7.7	-7.2	-8.3	-8.1	-7.8	-7.7	-7.2
	8H	-8.4	-8.2	-7.9	-7.7	-7.2	-8.4	-8.2	-7.9	-7.7	-7.2

Variations with the observer position at spacing:

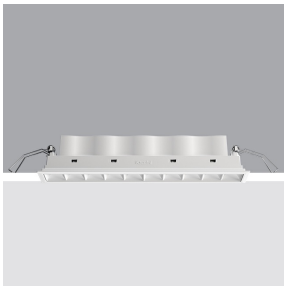
S =	1.0H	6.7 / -11.6	6.7 / -11.6
	1.5H	9.6 / -12.2	9.6 / -12.2
	2.0H	11.5 / -12.6	11.5 / -12.6

Laser Blade

Design iGuzzini **iGuzzini**

Last information update: February 2025

Product configuration: RB47.01
RB47.01: 10-cell recessed luminaire - LED - Warm White - Wide Oval - transversal optic - White

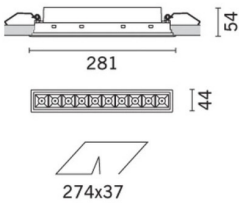


Product code
RB47.01: 10-cell recessed luminaire - LED - Warm White - Wide Oval - transversal optic - White

Technical description
Rectangular miniaturised recessed luminaire with 10 optical elements fitted with LED lamps - fixed Wide Oval optics - wide opening asymmetrical emission with a transversal effect. 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. Supplied with DALI dimmable control gear unit connected to the luminaire.

Installation
recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 37 x 274

Colour	**Weight (Kg)**
White (01)	0.65



Mounting
wall recessed|ceiling recessed

Wiring
on control gear box with quick-coupling connections

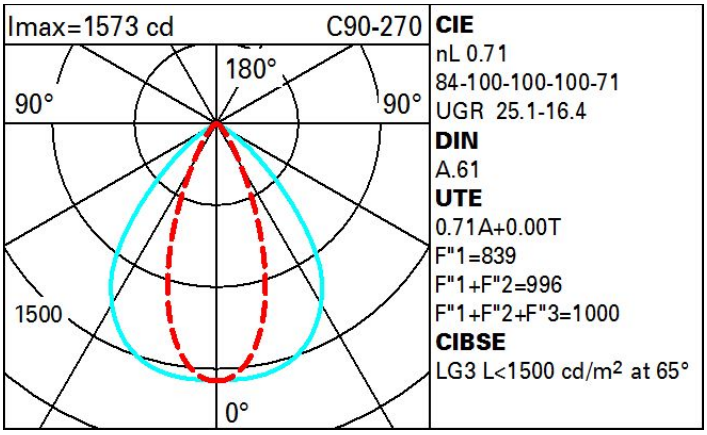
Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

Technical data

lm system:	1633	CRI (typical):	92
W system:	23.2	Colour temperature [K]:	3500
lm source:	2300	MacAdam Step:	3
W source:	20	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	70.4	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.) [%]:	71	Number of optical assemblies:	1
CRI (minimum):	90	Control:	DALI-2

Polar

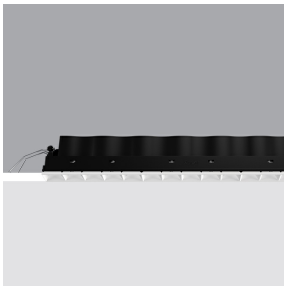


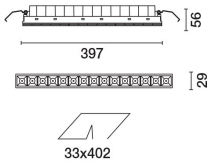
Laser Blade

Design iGuzzini **iGuzzini**

Last information update: February 2025

Product configuration: QV74.01
QV74.01: Minimal 15 cells - Flood - Tunable White LED - White





Product code
QV74.01: Minimal 15 cells - Flood - Tunable White LED - White

Technical description
Rectangular 15 optic element recessed miniaturised luminaire. LED lamps with different colour temperatures to create a modulated effect. The variation is achieved by mixing an emission of 15 x 2700K LEDs and 15 x 6500K LEDs with a high Colour Rendering Index. Every optic element contains a warm LED and a cool LED, rotated progressively by 72° in order to cover an angle of 360° for 15 LEDs and obtain a perfect mixture on the ground even between products of different sizes. Main body with die-cast aluminium radiant surface; frameless version for mounting flush with ceiling. For recessed installation in a false ceiling, a specific adapter is required that is available with a separate item code. Metallised thermoplastic high definition - flood beam - optics are integrated in a set-back 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 an integrated power supply system (DALI DT8) that, without using additional components, allows the colour temperature to be changed by simply pressing a single button. A DALI programmable setup with an intuitive, easy-to-use touch screen can be obtained using the X479 code with the M630 power supply unit. This panel can be controlled in Bluetooth mode using an app that allows system control to be extended to remote devices, like tablets and smartphones.

Installation
The recess body is inserted in the specific adapter installed previously by means of a steel wire spring - check the thickness of the false ceiling and use a compatible frame available with a separate item code.

Colour
White (01)

Weight (Kg)
0.85

Mounting
wall recessed|ceiling recessed

Wiring
Control gear units included. Different management systems are available with a separate code. For technical details, properties and connection procedures see the instruction sheet.

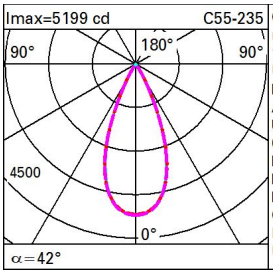
Complies with EN60598-1 and pertinent regulations

Technical data

lm system:	2380
W system:	33.4
lm source:	3400
W source:	28
Luminous efficiency (lm/W, real value):	71.3
lm in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	70
Beam angle [°]:	42°
CRI (minimum):	90
CRI (typical):	92
Colour temperature [K]:	Tunable white 2700 - 6500

MacAdam Step:	3
Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Power factor:	See installation instructions
Inrush current:	29 A / 153 µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 32 luminaires B16A: 51 luminaires C10A: 53 luminaires C16A: 86 luminaires
Minimum dimming %:	1
Overvoltage protection:	2kV Common mode & 1kV Differential mode
Control:	DALI-2

Polar



CIE
nL 0.70
100-100-100-100-70
UGR <10-<10
DIN
A.61
UTE
0.70A+0.00T
F"1=998
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

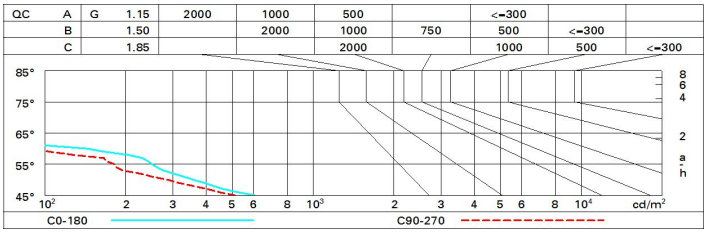
Lux

h	d1	d2	Em	Emax
2	1.5	1.5	1033	1298
4	3.1	3.1	258	324
6	4.6	4.6	115	144
8	6.1	6.1	65	81

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	63	60	58	56	59	57	57	55	78
1.0	66	63	61	59	62	60	60	58	83
1.5	69	67	65	64	66	65	64	62	89
2.0	71	70	69	67	69	68	67	65	93
2.5	73	71	71	70	71	70	69	67	96
3.0	74	73	72	71	72	71	70	68	98
4.0	74	74	73	73	73	72	71	70	99
5.0	75	74	74	74	73	73	72	70	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 3400 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	5.1	5.6	5.4	5.8	6.0	5.3	5.8	5.6	6.0	6.2
	3H	5.0	5.4	5.3	5.6	5.9	5.2	5.6	5.5	5.9	6.1
	4H	4.9	5.3	5.2	5.6	5.9	5.1	5.5	5.4	5.8	6.1
	6H	4.8	5.2	5.2	5.5	5.8	5.0	5.4	5.4	5.7	6.0
	8H	4.8	5.1	5.1	5.5	5.8	5.0	5.3	5.3	5.7	6.0
	12H	4.7	5.1	5.1	5.4	5.8	4.9	5.3	5.3	5.6	6.0
4H	2H	4.9	5.3	5.2	5.6	5.9	5.1	5.5	5.4	5.8	6.1
	3H	4.7	5.1	5.1	5.4	5.8	4.9	5.3	5.3	5.6	6.0
	4H	4.6	4.9	5.0	5.3	5.7	4.8	5.1	5.2	5.5	5.9
	6H	4.6	4.8	5.0	5.2	5.6	4.8	5.0	5.2	5.4	5.8
	8H	4.5	4.8	4.9	5.2	5.6	4.7	5.0	5.1	5.4	5.8
	12H	4.5	4.7	4.9	5.1	5.6	4.7	4.9	5.1	5.3	5.8
8H	4H	4.5	4.8	4.9	5.2	5.6	4.7	5.0	5.1	5.4	5.8
	6H	4.4	4.6	4.9	5.1	5.5	4.6	4.8	5.1	5.3	5.7
	8H	4.4	4.5	4.8	5.0	5.5	4.6	4.7	5.0	5.2	5.7
	12H	4.3	4.4	4.8	4.9	5.5	4.5	4.7	5.0	5.1	5.7
12H	4H	4.5	4.7	4.9	5.1	5.6	4.7	4.9	5.1	5.3	5.8
	6H	4.4	4.5	4.8	5.0	5.5	4.6	4.7	5.0	5.2	5.7
	8H	4.3	4.4	4.8	4.9	5.5	4.5	4.7	5.0	5.1	5.7

Variations with the observer position at spacing:

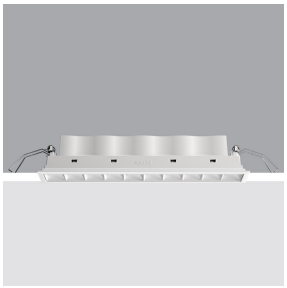
S =			
	1.0H	6.7 / -17.0	6.6 / -18.7
	1.5H	9.5 / -23.9	9.5 / -27.2
	2.0H	11.5 / -33.7	11.5 / -32.9

Laser Blade

Design iGuzzini **iGuzzini**

Last information update: February 2025

Product configuration: QW87.01
QW87.01: 10-cell recessed luminaire - LED - Warm White - Oval Wide - transversal optic - White

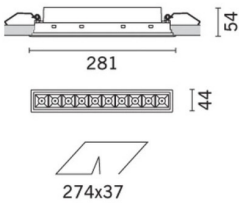


Product code
QW87.01: 10-cell recessed luminaire - LED - Warm White - Oval Wide - transversal optic - White

Technical description
Rectangular miniaturised recessed luminaire with 10 optical elements fitted with LED lamps - fixed Wide Oval optics - wide opening asymmetrical emission with a transversal effect. 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. Supplied with DALI dimmable control gear unit connected to the luminaire.

Installation
recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 37 x 274

Colour	**Weight (Kg)**
White (01)	0.65



Mounting
wall recessed|ceiling recessed

Wiring
on control gear box with quick-coupling connections

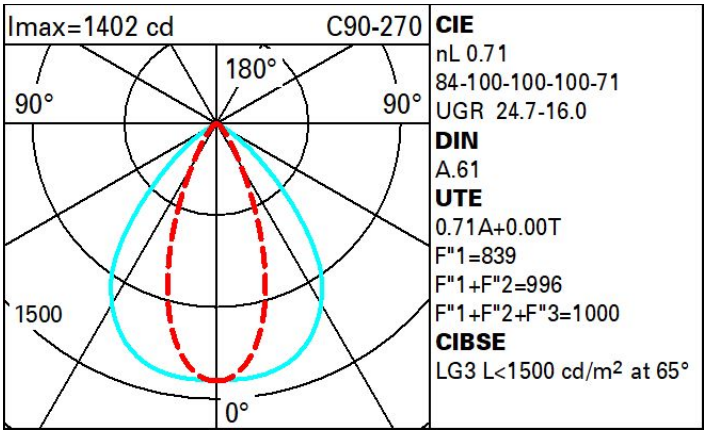
Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

Technical data

lm system:	1456	CRI (typical):	92
W system:	23.2	Colour temperature [K]:	2700
lm source:	2050	MacAdam Step:	3
W source:	20	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	62.7	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.) [%]:	71	Number of optical assemblies:	1
CRI (minimum):	90	Control:	DALI-2

Polar

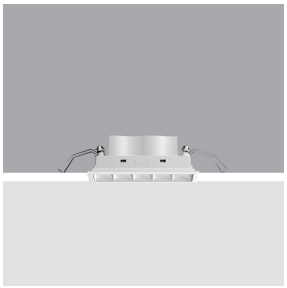


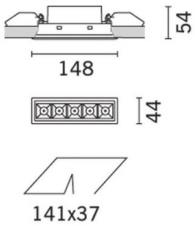
Laser Blade

Design iGuzzini **iGuzzini**

Last information update: January 2025

Product configuration: EJ54.01
EJ54.01: 5-cell recessed luminaire - LED - Warm White - Medium Oval - longitudinal optic - 12.7W 766.5lm - 2700K - CRI 90 - White





Product code
EJ54.01: 5-cell recessed luminaire - LED - Warm White - Medium Oval - longitudinal optic - 12.7W 766.5lm - 2700K - CRI 90 - White

Technical description
Rectangular miniaturised recessed luminaire with 5 optical elements fitted with LED lamps - fixed Medium Oval optics - narrow opening asymmetrical emission with a longitudinal effect. 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. Supplied with DALI dimmable control gear unit connected to the luminaire.

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

Colour	**Weight (Kg)**
White (01)	0.3

Mounting
wall recessed|ceiling recessed

Wiring
on control gear box; screw connections with terminal block included

Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

Technical data

lm system:	767	CRI (typical):	92
W system:	12.7	Colour temperature [K]:	2700
lm source:	1050	MacAdam Step:	3
W source:	9.9	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	60.4	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.) [%]:	73	Number of optical assemblies:	1
CRI (minimum):	90	Control:	DALI-2

Polar