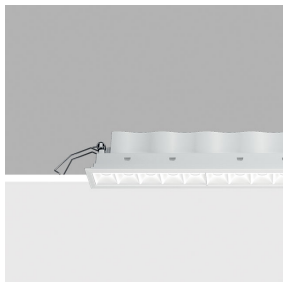## Laser Blade

Design iGuzzini	iGuzzini

Last information update: May 2024

Product configuration: Q941
Q941: Frame recessed luminaire - 15 cells - General Lighting Pro - DALI

Product code
Q941: Frame recessed luminaire - 15 cells - General Lighting Pro - DALI

Technical description
Rectangular recessed luminaire with 15 optical elements for LED lamps - fixed optics with metallised thermoplastic high definition Opti-Beam reflectors, integrated in a set-back position in the anti-glare screen. Main body with die-cast aluminium radiant surface, version with perimeter surface frame. The total white finish and the patented technology of the optic system guarantee an even and efficient luminous flux optimised by a special diffuser screen that reduces direct glare significantly. Supplied with DALI dimmable electronic control gear connected to the luminaire.

Installation
Recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 37 x 406.

Colour	Weight (Kg)
White (01)	0.86

Mounting
wall recessed|ceiling recessed

Wiring
On control gear box with quick-coupling connections.

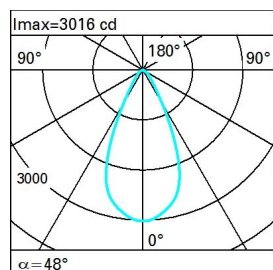Complies with EN60598-1 and pertinent regulations

IP20 IP23 CE UKCA CCC S&E S EAC NOM

Technical data

lm system:	2196	Life Time LED 1:	50,000h - L90 - B10 (Ta 25°C)
W system:	35	Lamp code:	LED
lm source:	3050	Number of lamps for optical assembly:	1
W source:	31		
Luminous efficiency (lm/W, real value):	62.7	ZVEI Code:	LED
lm in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	0	Power factor:	See installation instructions
		Inrush current:	5.5 A / 55 µs
Light Output Ratio (L.O.R.) [%]:	72	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 20 luminaires
CRI (minimum):	95		B16A: 32 luminaires
CRI (typical):	97		C10A: 33 luminaires
Colour temperature [K]:	4000		C16A: 54 luminaires
MacAdam Step:	3	Minimum dimming %:	1
		Overvoltage protection:	2kV Common mode & 1kV Differential mode
		Control:	DALI-2

Polar

Imax=3016 cd

CIE
nL 0.72
88-98-100-100-72
UGR 18.6-18.4
DIN
A.61
UTE
0.72A+0.00T
F"1=884
F"1+F"2=980
F"1+F"2+F"3=996

α=48°

h	d	Em	Emax
2	1.8	597	754
4	3.6	149	188
6	5.3	66	84
8	7.1	37	47

Lux

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	61	57	54	52	56	53	53	50	70
1.0	65	61	58	56	60	57	57	54	75
1.5	69	66	64	62	65	63	62	60	83
2.0	72	69	68	66	68	67	66	64	88
2.5	73	72	70	69	70	69	68	66	92
3.0	74	73	72	71	72	71	70	68	94
4.0	75	74	74	73	73	72	71	69	96
5.0	76	75	74	74	74	73	72	70	97

Luminance curve limit

QC	A	G	1.15	2000	1000	500		<=300		
	B		1.50		2000	1000	750	500	<=300	
	C		1.85			2000		1000	500	<=300

| C0-180 | ——— | C90-270 | - - - - - - - - |
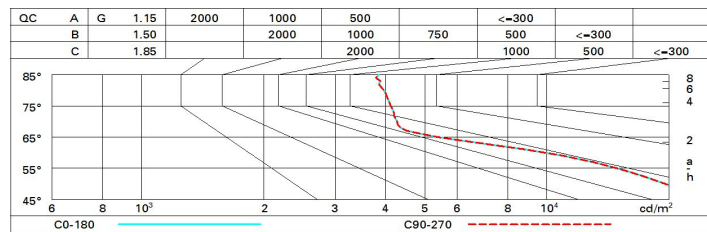
UGR diagram

Corrected UGR values (at 3050 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					viewed			
x	y		crosswise					endwise			
2H	2H	18.3	19.0	18.6	19.2	19.5	18.3	19.0	18.6	19.2	19.5
	3H	18.4	19.0	18.7	19.2	19.5	18.4	19.0	18.7	19.2	19.5
	4H	18.4	18.9	18.7	19.2	19.5	18.3	18.9	18.7	19.2	19.5
	6H	18.4	18.9	18.7	19.2	19.6	18.3	18.8	18.6	19.1	19.4
	8H	18.4	18.9	18.8	19.2	19.6	18.2	18.7	18.6	19.1	19.4
	12H	18.4	18.9	18.8	19.2	19.6	18.2	18.7	18.6	19.0	19.4
4H	2H	18.3	18.9	18.7	19.2	19.5	18.4	18.9	18.7	19.2	19.5
	3H	18.4	18.9	18.8	19.2	19.6	18.5	19.0	18.9	19.3	19.7
	4H	18.5	18.9	18.9	19.3	19.6	18.5	18.9	18.9	19.3	19.6
	6H	18.5	18.9	19.0	19.3	19.7	18.4	18.8	18.9	19.2	19.6
	8H	18.6	18.9	19.0	19.3	19.7	18.4	18.8	18.9	19.2	19.6
	12H	18.6	18.9	19.0	19.3	19.8	18.4	18.7	18.8	19.1	19.6
8H	4H	18.4	18.8	18.9	19.2	19.6	18.6	18.9	19.0	19.3	19.7
	6H	18.5	18.8	19.0	19.3	19.7	18.6	18.9	19.0	19.3	19.8
	8H	18.6	18.8	19.1	19.3	19.8	18.6	18.8	19.1	19.3	19.8
	12H	18.6	18.8	19.1	19.3	19.8	18.6	18.8	19.1	19.3	19.8
12H	4H	18.4	18.7	18.8	19.1	19.6	18.6	18.9	19.0	19.3	19.8
	6H	18.5	18.8	19.0	19.2	19.7	18.6	18.8	19.1	19.3	19.8
	8H	18.6	18.8	19.1	19.3	19.8	18.6	18.8	19.1	19.3	19.8

Variations with the observer position at spacing:

S =	1.0H	1.5 / -1.5	1.5 / -1.5
	1.5H	3.1 / -3.4	3.1 / -3.4
	2.0H	4.9 / -4.6	4.9 / -4.6