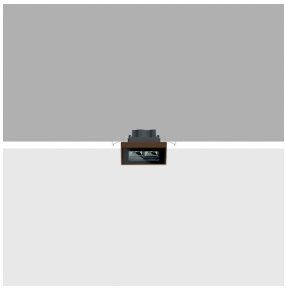
Laser Blade InOut

Design iGuzzini **iGuzzini**

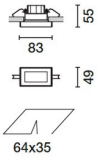
Last information update: April 2024

Product configuration: BX55
BX55: Recessed rectangular ceiling-mounted IP65 luminaire, compact body, Neutral White LEDs, Flood optic.



Product code
BX55: Recessed rectangular ceiling-mounted IP65 luminaire, compact body, Neutral White LEDs, Flood optic.

Technical description
Miniaturised recessed rectangular luminaire with two optical elements with Neutral White LED light sources - fixed Flood optic. Comprises a (round) optical compartment, frame, glass, outgoing cable and installation accessories to be ordered separately, where necessary. The optical compartment and frame are made of aluminium alloy and subjected to a multi-step pre-treatment process, the main phases of which include degreasing, fluorozirconic coating (a surface protective coat) and sealing (silane-based nanostructured coat). The successive painting phase is completed using primer and liquid acrylic paint, baked at 150°C, guaranteeing excellent resistance to atmospheric agents and UV rays. The glass-holder frame has plastic end caps. Tempered soda-lime closing glass, transparent with black screen-printing on the edge, 3mm thickness, attached to the frame with silicone. Silicone seals are placed between the glass-holder frame and the optical compartment. High-definition optic made of metallic thermoplastic, integrated into the black anti-glare screen towards the rear. Grade 304 stainless steel supporting springs. Connection cables supplied. Control gear not includes; available with separate code. All external screws are made of A2 stainless steel.



Installation
Recessed installation with protruding frame on 1-20mm-thick suspended ceilings. Recess opening on suspended ceiling, size 64x35. Recessed installation with flush frame on 12.5mm- or 15mm-thick suspended ceilings, through adapter frame to be ordered separately. Installation on concrete ceilings using an outer casing to be ordered separately (flush and protruding frame).

Colour
Black / Black (43) | Black / White (47) | Grey / Black (74) | Rust Brown / Black (I5) | Black/Glossy Urban Bronze (S7) | Black/Glossy Copper (S8) | Black/Glossy Sand (S9) | Black/Glossy Lead (T0) | White/Glossy Urban Bronze (T1) | White/Glossy Copper (T2) | White/Glossy Sand (T3) | White/Glossy Lead (T4) | Grey/Glossy Urban Bronze (T5) | Grey/Glossy Copper (T6) | Grey/Glossy Sand (T7) | Grey/Glossy Lead (T8) | Rust Brown/Glossy Urban Bronze (T9) | Rust Brown/Glossy Copper (U0) | Rust Brown/Glossy Sand (U1) | Rust Brown/Glossy Lead (U2)

Weight (Kg)
0.15

Mounting
ceiling recessed

Wiring
Constant current control gear (700mA) to be ordered separately.

Notes
Version with black painted frame available on request.

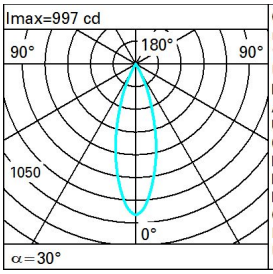
Complies with EN60598-1 and pertinent regulations

IK06 IP65

Technical data

lm system:	292	Colour temperature [K]:	4000
W system:	4.1	MacAdam Step:	3
lm source:	400	Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)
W source:	4.1	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Luminous efficiency (lm/W, real value):	71.2	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
Beam angle [°]:	30°	Intervallo temperatura ambiente:	from -30°C to 50°C.
CRI (minimum):	95	LED current [mA]:	700
CRI (typical):	97		

Polar



CIE
nL 0.73
100-100-100-100-73
UGR <10-<10
DIN
A.61
UTE
0.73A+0.00T
F"1=997
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 | L<1500 cd/mq @65°

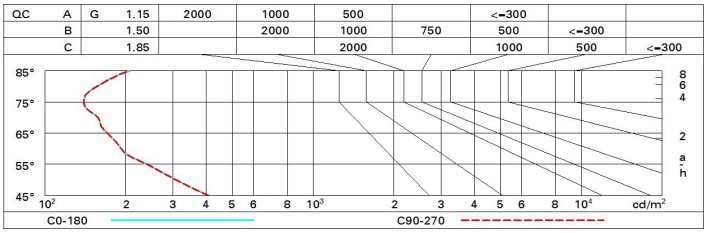
Lux

h	d	Em	Emax
2	1.1	191	249
4	2.1	48	62
6	3.2	21	28
8	4.3	12	16

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	66	63	60	58	62	60	59	57	78
1.0	69	66	64	62	65	63	63	60	83
1.5	72	70	68	67	69	67	67	65	89
2.0	74	73	71	70	72	71	70	68	93
2.5	76	75	74	73	74	73	72	70	96
3.0	77	76	75	74	75	74	73	71	98
4.0	78	77	77	76	76	75	74	72	99
5.0	78	78	77	77	76	76	75	73	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 400 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	-3.2	-2.6	-2.9	-2.4	-2.2	-3.2	-2.6	-2.9	-2.4	-2.2
	3H	-3.1	-2.7	-2.8	-2.4	-2.1	-3.2	-2.8	-2.9	-2.5	-2.2
	4H	-3.2	-2.7	-2.8	-2.4	-2.1	-3.3	-2.8	-3.0	-2.5	-2.3
	6H	-3.2	-2.7	-2.8	-2.4	-2.1	-3.3	-2.9	-3.0	-2.6	-2.3
	8H	-3.1	-2.7	-2.8	-2.4	-2.1	-3.4	-3.0	-3.0	-2.7	-2.3
	12H	-3.1	-2.8	-2.8	-2.4	-2.1	-3.4	-3.0	-3.0	-2.7	-2.4
4H	2H	-3.3	-2.8	-3.0	-2.5	-2.3	-3.2	-2.7	-2.8	-2.4	-2.1
	3H	-3.2	-2.9	-2.9	-2.5	-2.2	-3.2	-2.8	-2.8	-2.5	-2.1
	4H	-3.2	-2.9	-2.8	-2.5	-2.1	-3.2	-2.9	-2.8	-2.5	-2.1
	6H	-3.2	-2.9	-2.8	-2.5	-2.1	-3.3	-3.0	-2.8	-2.6	-2.2
	8H	-3.1	-2.9	-2.7	-2.5	-2.0	-3.3	-3.0	-2.9	-2.6	-2.2
	12H	-3.1	-2.9	-2.6	-2.4	-2.0	-3.3	-3.1	-2.9	-2.7	-2.2
8H	4H	-3.3	-3.0	-2.9	-2.6	-2.2	-3.1	-2.9	-2.7	-2.5	-2.0
	6H	-3.2	-3.0	-2.7	-2.5	-2.1	-3.1	-2.9	-2.7	-2.5	-2.0
	8H	-3.1	-2.9	-2.6	-2.5	-2.0	-3.1	-2.9	-2.6	-2.5	-2.0
	12H	-3.0	-2.9	-2.5	-2.4	-1.9	-3.1	-3.0	-2.6	-2.5	-2.0
12H	4H	-3.3	-3.1	-2.9	-2.7	-2.2	-3.1	-2.9	-2.6	-2.4	-2.0
	6H	-3.2	-3.0	-2.7	-2.6	-2.1	-3.1	-2.9	-2.6	-2.4	-1.9
	8H	-3.1	-3.0	-2.6	-2.5	-2.0	-3.0	-2.9	-2.5	-2.4	-1.9

Variations with the observer position at spacing:

S =	1.0H	5.4 / -4.0	5.4 / -4.0
	1.5H	8.1 / -4.5	8.1 / -4.5
	2.0H	10.0 / -4.7	10.0 / -4.7