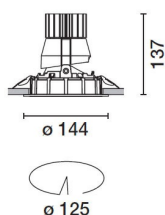# Reflex

Design iGuzzini	iGuzzini

Last information update: April 2024

Product configuration: N087
N087: adjustable luminaire - Ø 125 mm - warm white - medium optic - frame

Product code
N087: adjustable luminaire - Ø 125 mm - warm white - medium optic - frame

Technical description
Round adjustable luminaire designed to use an LED lamp with C.O.B.technology in a warm white colour tone 3000K (CRI 80). Version with rim for surface-mounting. Painted, die-cast aluminium body. Lower reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Anodised aluminium upper reflector. Black, zinc-plated sheet steel bracket. The luminaire can be rotated 30° relative to the horizontal plane and 358° about the vertical axis. The luminaire is fitted with mechanical locks for light beam aiming. Painted extruded aluminium dissipater.

Installation
Recessed using torsion springs which allow easy installation in false ceilings with thickness ranging from 1 mm to 25 mm.

Colour	Weight (Kg)
White / Aluminium (39)	0.8

Mounting
ceiling recessed

Wiring
Product complete with DALI components

Complies with EN60598-1 and pertinent regulations

IP20 IP23 CE ⟨⟨03⟩ § EAC VDE ⑤

Technical data

lm system:	963	MacAdam Step:	2
W system:	15.7	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
lm source:	2100	Lamp code:	LED
W source:	13	Number of lamps for optical assembly:	1
Luminous efficiency (lm/W, real value):	61.4		
		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
Light Output Ratio (L.O.R.) [%]:	46	Inrush current:	16 A / 220 µs
		Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 15 luminaires
Beam angle [°]:	20° / 22°		B16A: 24 luminaires
CRI (minimum):	80		C10A: 24 luminaires
Colour temperature [K]:	3000		C16A: 40 luminaires
		Overvoltage protection:	2kV Common mode & 1kV Differential mode
		Control:	DALI-2

Polar

Imax=3762 cd   C0-180

α=20° / 22°

CIE
nL 0.46
98-100-100-100-46
UGR <10-<10
DIN
A.61
UTE
0.46A+0.00T
F"1=980
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 I L<1500 cd/mq @65°

h	d1	d2	Em	Emax
2	0.7	0.8	714	940
4	1.4	1.6	179	235
6	2.1	2.3	79	104
8	2.8	3.1	45	59

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	41	39	37	36	38	37	37	35	77
1.0	43	41	40	38	40	39	39	37	82
1.5	45	44	43	42	43	42	42	40	88
2.0	47	46	45	44	45	44	44	42	92
2.5	47	47	46	45	46	45	45	44	95
3.0	48	48	47	47	47	46	46	45	97
4.0	49	48	48	48	47	47	46	45	99
5.0	49	49	48	48	48	48	47	46	100

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
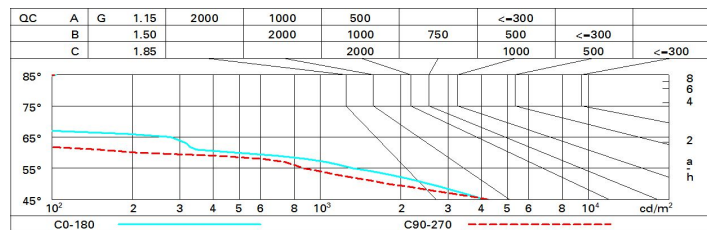
UGR diagram

Corrected UGR values (at 2100 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	2.8	3.3	3.0	3.5	3.8	7.0	7.6	7.3	7.8	8.0
	3H	2.7	3.2	3.0	3.4	3.7	6.9	7.4	7.2	7.6	7.9
	4H	2.6	3.1	2.9	3.4	3.7	6.8	7.3	7.1	7.6	7.9
	6H	2.5	3.0	2.9	3.3	3.6	6.7	7.2	7.1	7.5	7.8
	8H	2.5	2.9	2.8	3.2	3.6	6.7	7.1	7.0	7.4	7.8
	12H	2.4	2.8	2.8	3.2	3.5	6.6	7.0	7.0	7.4	7.7
4H	2H	2.6	3.1	2.9	3.4	3.7	6.8	7.3	7.1	7.5	7.8
	3H	2.5	2.9	2.9	3.2	3.6	6.6	7.0	7.0	7.4	7.7
	4H	2.4	2.8	2.8	3.1	3.5	6.6	6.9	7.0	7.3	7.7
	6H	2.3	2.6	2.8	3.0	3.5	6.5	6.8	6.9	7.2	7.6
	8H	2.3	2.6	2.7	3.0	3.4	6.4	6.7	6.9	7.1	7.6
	12H	2.2	2.5	2.7	2.9	3.4	6.4	6.6	6.8	7.1	7.5
8H	4H	2.3	2.6	2.7	3.0	3.4	6.4	6.7	6.9	7.1	7.6
	6H	2.2	2.4	2.7	2.9	3.4	6.3	6.6	6.8	7.0	7.5
	8H	2.1	2.3	2.6	2.8	3.3	6.3	6.5	6.8	6.9	7.4
	12H	2.1	2.3	2.6	2.8	3.3	6.2	6.4	6.7	6.9	7.4
12H	4H	2.2	2.5	2.7	2.9	3.4	6.4	6.6	6.8	7.1	7.5
	6H	2.1	2.3	2.6	2.8	3.3	6.3	6.5	6.8	6.9	7.4
	8H	2.1	2.3	2.6	2.8	3.3	6.2	6.4	6.7	6.9	7.4

Variations with the observer position at spacing:

S =					
	1.0H	3.0 / -7.9		3.9 / -9.4	
	1.5H	4.7 / -8.8		6.6 / -18.6	
	2.0H	6.6 / -13.5		8.6 / -19.7	