Laser
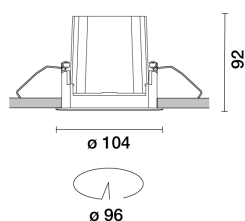
Last information update: April 2025

Product configuration: RA33.01+MY46.24
RA33.01: Adjustable (tilting) round recessed luminaire - LED - Flood - 17W 1975.8lm - 3000K - CRI 90 - White
MY46.24: "Soft Lens" filter - Clear transparent

Product code
RA33.01: Adjustable (tilting) round recessed luminaire - LED - Flood - 17W 1975.8lm - 3000K - CRI 90 - White

Technical description
Round recessed luminaire with contact frame. Adjustable version that tilts by a maximum of 30°. The main swivel body is made of die-cast aluminium with a radiant surface that guarantees optimum heat dissipation. Metallised, thermoplastic, high definition reflector - flood optic. Structure with die-cast aluminium external contact frame with a single white finish. Steel rotating parts. The ring inside the swivel body is made of thermoplastic available in a range of painted and metallised finishes. Safety glass included Quick and easy tool free assembly. High color rendering index 3000K LED. Power unit available with a separate code no.

Installation
Recessed in a false ceiling by means of an anti-fall steel wire spring - minimum thickness of false ceiling: 1 mm - preparation hole Ø 96 mm.

Colour	Weight (Kg)
White (01)	0.38

Mounting
wall recessed|ceiling recessed

Wiring
Direct current ballasts are available with a separate code no.: ON-OFF / 1-10V dimmable / DALI dimmable / Trailing Edge dimmable - the recessed fitting includes a cable and a quick-coupling connector to connect it to the connector on the ballast.

Notes
To reduce the glare caused by the internal wall of the recess when the luminaire has been rotated, a black, snap on accessory ring is available. A wide range of decorative accessories and diffusers is also available.

Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed CE UKCA

Accessory code
MY46.24: "Soft Lens" filter - Clear transparent

Technical description
Soft Lens Filter

Colour	Weight (Kg)
Clear transparent (24)	0.03

Complies with EN60598-1 and pertinent regulations

Technical data

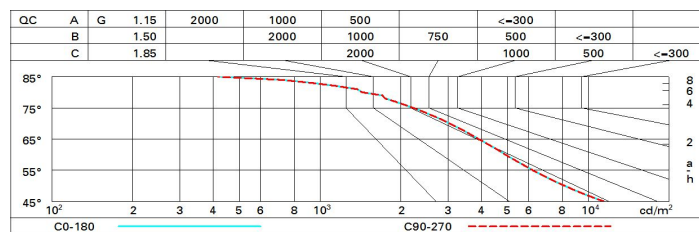|			
lm system:	1798	CRI (minimum):	90
W system:	17	Colour temperature [K]:	3000
lm source:	2220	MacAdam Step:	2
W source:	17	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	105.8	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total 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 [°]:	30°	LED current [mA]:	500

Polar

Imax=5707 cd	CIE	Lux			
	nL 0.81	h	d	Em	Emax
90° 180° 90°	98-100-100-100-81				
	UGR 12.4-12.4	2	1.1	1116	1427
	DIN				
	A.61	4	2.2	279	357
6000	**UTE**				
	0.81A+0.00T				
	F"1=982	6	3.3	124	159
0°	F"1+F"2=996				
	F"1+F"2+F"3=1000	8	4.4	70	89
α=31°					
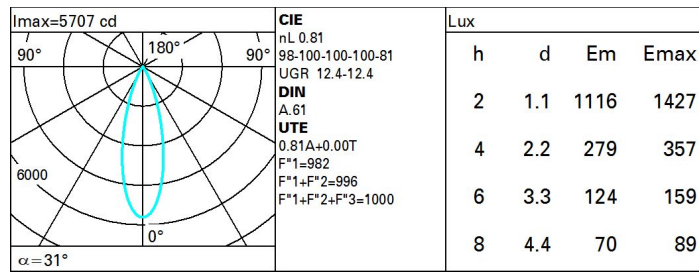
Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	73	69	66	64	68	66	65	62	77
1.0	76	72	70	68	72	69	69	66	82
1.5	80	77	75	73	76	74	74	71	88
2.0	82	80	79	77	79	78	77	75	92
2.5	84	82	81	80	81	80	79	77	95
3.0	85	84	83	82	83	82	81	79	97
4.0	86	85	85	84	84	83	82	80	99
5.0	86	86	85	85	85	84	83	81	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 2220 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	12.5	13.0	12.8	13.3	13.5	12.5	13.0	12.8	13.3	13.5
	3H	12.5	13.0	12.8	13.3	13.6	12.5	13.0	12.8	13.2	13.5
	4H	12.5	13.0	12.8	13.3	13.6	12.4	12.9	12.7	13.2	13.5
	6H	12.5	12.9	12.8	13.2	13.5	12.3	12.8	12.7	13.1	13.4
	8H	12.4	12.9	12.8	13.2	13.5	12.3	12.7	12.7	13.1	13.4
	12H	12.4	12.8	12.8	13.1	13.5	12.3	12.7	12.6	13.0	13.4
4H	2H	12.4	12.9	12.7	13.2	13.5	12.5	13.0	12.8	13.3	13.6
	3H	12.5	12.9	12.9	13.2	13.6	12.5	12.9	12.9	13.2	13.6
	4H	12.5	12.8	12.9	13.2	13.6	12.5	12.8	12.9	13.2	13.6
	6H	12.4	12.8	12.9	13.1	13.6	12.4	12.7	12.9	13.1	13.6
	8H	12.4	12.7	12.8	13.1	13.5	12.4	12.7	12.8	13.1	13.5
	12H	12.4	12.6	12.8	13.0	13.5	12.3	12.6	12.8	13.0	13.5
8H	4H	12.4	12.7	12.8	13.1	13.5	12.4	12.7	12.8	13.1	13.5
	6H	12.4	12.6	12.8	13.0	13.5	12.4	12.6	12.8	13.0	13.5
	8H	12.3	12.5	12.8	13.0	13.5	12.3	12.5	12.8	13.0	13.5
	12H	12.3	12.5	12.8	12.9	13.5	12.3	12.5	12.8	12.9	13.5
12H	4H	12.3	12.6	12.8	13.0	13.5	12.4	12.6	12.8	13.0	13.5
	6H	12.3	12.5	12.8	13.0	13.5	12.3	12.5	12.8	13.0	13.5
	8H	12.3	12.5	12.8	12.9	13.5	12.3	12.5	12.8	12.9	13.5

Variations with the observer position at spacing:

S =	1.0H	4.8 / -4.2	4.8 / -4.2
	1.5H	7.5 / -5.3	7.5 / -5.3
	2.0H	9.4 / -6.0	9.4 / -6.0