

Last information update: January 2025

**Product configuration: RN81.R7**

RN81.R7: Ceiling-mounted luminaire - Ø172 - General Light - White/Trasparent/Transparent Black

**Product code**

RN81.R7: Ceiling-mounted luminaire - Ø172 - General Light - White/Trasparent/Transparent Black

**Technical description**

Direct lighting luminaire - ceiling installation. LED source with high colour rendering index - high performance emission with excellent levels of efficiency for general lighting uses. PMMA emission unit made up of a transparent PMMA prismatic reflector in combination with the flow recovery unit and diffuser screen - an internal polycarbonate cover visually defines the optics unit. External structure of the light unit with double element in machined aluminium - finished with an even or combined painting. The practical bayonet coupling system allows the two sections to be separated to perform wiring work - a steel retaining cable prevents the separated section from falling. DALI dimmer power supply unit integrated into the light unit. The PURE version of the luminaire stands out for its textured translucent external lower ring.

**Installation**

ceiling installation directly on the structure that can be separated into two sections with bayonet system.

**Colour**

White/Trasparent/White Transparent (R7)

**Weight (Kg)**

1.09

**Mounting**

ceiling surface

**Wiring**

Integrated DALI dimmer driver - wiring terminal board positioned in the upper part of the structure.

Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	2340	CRI (minimum):	90
W system:	21	Colour temperature [K]:	3500
lm source:	3000	MacAdam Step:	2
W source:	21	Lamp code:	LED
Luminous efficiency (lm/W, real value):	111.4	Number of lamps for optical assembly:	1
lm in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	25	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	78	Control:	DALI-2

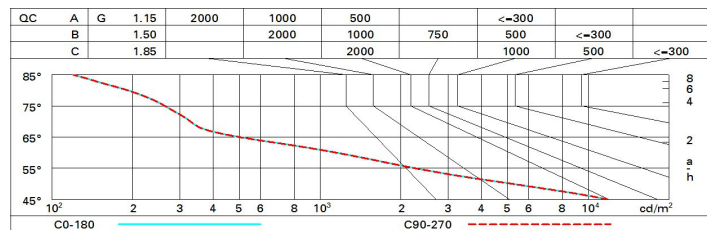
**Polar**

Imax=1528 cd		CIE		Lux			
90°	180°	nL 0.78	84-99-100-99-78	h	d	Em	E <sub>max</sub>
		UGR 16.2-16.2	DIN A.62	1	1.6	1126	1449
		UTE 0.77B+0.01T	F*1=837	2	3.2	281	362
		F*1+F*2=987	F*1+F*2+F*3=997	3	4.8	125	161
		CIBSE LG3 L<1500 cd/m² at 65°	UGR<19   L<1500 cd/mq @ 65°	4	6.4	70	91
α=77°							

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	64	59	56	53	58	55	54	51	66
1.0	68	64	60	58	63	60	59	56	72
1.5	74	70	68	65	69	67	66	63	81
2.0	77	74	72	70	73	71	70	67	87
2.5	79	77	75	73	75	74	73	70	91
3.0	80	78	77	75	77	75	74	72	93
4.0	81	80	79	78	78	77	76	73	95
5.0	82	81	80	79	79	78	77	74	96

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 3000 lm bare lamp luminous flux)										
Reflect.: ceiling walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise			
2H	2H	10.8	17.5	17.1	17.8	18.1	10.8	17.5	17.1	17.8
	3H	10.6	17.3	17.0	17.6	17.9	10.6	17.3	17.0	17.6
	4H	10.6	17.2	16.9	17.5	17.8	10.6	17.2	16.9	17.5
	6H	10.5	17.1	16.8	17.4	17.7	10.5	17.1	16.9	17.4
	8H	10.4	17.0	16.8	17.3	17.7	10.4	17.0	16.8	17.4
	12H	10.4	16.9	16.8	17.3	17.7	10.4	16.9	16.8	17.3
4H	2H	10.6	17.2	16.9	17.5	17.8	10.6	17.2	16.9	17.5
	3H	10.4	17.0	16.8	17.3	17.7	10.4	17.0	16.8	17.3
	4H	10.3	16.8	16.8	17.2	17.6	10.3	16.8	16.8	17.2
	6H	10.3	16.7	16.7	17.1	17.5	10.3	16.7	16.7	17.1
	8H	10.2	16.6	16.7	17.0	17.5	10.2	16.6	16.7	17.0
	12H	10.2	16.5	16.6	17.0	17.4	10.2	16.5	16.6	17.0
8H	4H	10.2	16.6	16.7	17.0	17.5	10.2	16.6	16.7	17.0
	6H	10.1	16.4	16.6	16.9	17.4	10.1	16.4	16.6	16.9
	8H	10.1	16.3	16.6	16.8	17.4	10.1	16.3	16.6	16.8
	12H	10.0	16.3	16.6	16.8	17.3	10.0	16.3	16.6	16.8
12H	4H	10.2	16.5	16.6	17.0	17.4	10.2	16.5	16.6	17.0
	6H	10.1	16.3	16.6	16.8	17.4	10.1	16.3	16.6	16.8
	8H	10.0	16.3	16.6	16.8	17.3	10.0	16.3	16.6	16.8
Variations with the observer position at spacing:										
S =		1.0H	2.8	/ -7.6			2.8	/ -7.6		
		1.5H	5.3	/ -11.8			5.3	/ -11.8		
		2.0H	7.3	/ -13.8			7.3	/ -13.8		