

## Easy Space Square

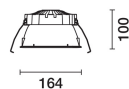
Design iGuzzini

iGuzzini

Last information update: June 2024

### Product configuration: RI49.83

RI49.83: Square 163 - General Lighting - INVERTER - Warm White - Emergency - Transparent/Black



### Product code

RI49.83: Square 163 - General Lighting - INVERTER - Warm White - Emergency - Transparent/Black

### Technical description

Square recess luminaire with fixed optics, in version with outer frame. High efficiency LED source for general lighting uses - version set up for emergency functioning. Emission unit made up of a transparent PMMA prismatic reflector in combination with the flow recovery unit and diffuser screen, both produced in PMMA, integrated into the external polycarbonate structure. The painted die-cast aluminium diffuser encompasses the steel wire coupling springs. Power supply unit - complete with inverter and battery unit - supplied with the luminaire.

### Installation

recessed with steel wire springs for false ceilings from 1 to 25 mm thick

### Colour

Black Transparent (83)

### Weight (Kg)

1.27

### Mounting

ceiling surface

### Wiring

functioning electronic components included - inverter and battery unit for emergency functioning to connect to the luminaire (see instructions sheet).

Complies with EN60598-1 and pertinent regulations



IP20

IP54

On the visible part of the product once installed



### Technical data

Im system:	2907	MacAdam Step:	2
W system:	28.7	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Im source:	3380	Lamp code:	LED
W source:	21	Number of lamps for optical assembly:	1
Luminous efficiency (lm/W, real value):	101.3	ZVEI Code:	LED
Im 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.) [%]:	86	Inrush current:	19.4 A / 250 µs
CRI (minimum):	80	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 13 luminaires B16A: 21 luminaires C10A: 21 luminaires C16A: 35 luminaires
Colour temperature [K]:	3000	Overvoltage protection:	2kV Common mode & 1kV Differential mode

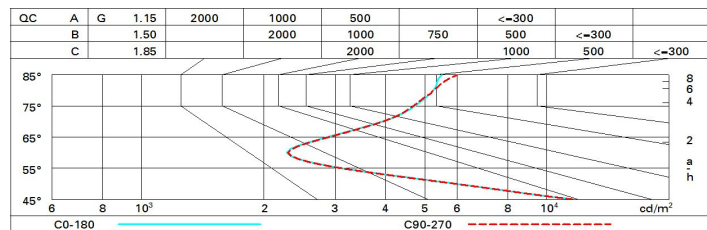
### Polar

<p>Imax=3394 cd</p> <p>C0-180</p> <p>90° 180° 90°</p> <p>3000</p> <p>0°</p> <p>α=52°</p>	<b>CIE</b>		<b>Lux</b>				
	nL 0.86		h	d1	d2	Em	Emax
	87-97-99-100-86		2	2	2	620	849
	UGR 19.0-18.5		4	3.9	3.9	155	212
	<b>DIN</b>		6	5.9	5.9	69	94
	A.61		8	7.8	7.8	39	53
	<b>UTE</b>						
	0.86A+0.00T						
	F*1=873						
	F*1+F*2=973						
F*1+F*2+F*3=990							

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	73	67	64	61	66	63	63	59	69
1.0	77	72	69	66	71	68	68	64	74
1.5	82	78	76	73	77	75	74	71	82
2.0	85	83	80	78	81	79	78	75	88
2.5	87	85	83	82	84	82	81	78	91
3.0	88	87	85	84	85	84	83	80	93
4.0	90	88	87	86	87	86	85	82	95
5.0	90	89	88	88	88	87	86	83	97

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 3380 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
2H	2H	18.3	19.0	18.5	19.3	19.5	18.3	19.0	18.6	19.3	19.5
	3H	18.3	19.0	18.6	19.3	19.6	18.2	18.9	18.5	19.1	19.4
	4H	18.5	19.1	18.8	19.4	19.7	18.1	18.7	18.4	19.0	19.4
	6H	18.6	19.2	19.0	19.6	19.9	18.0	18.6	18.4	19.0	19.3
	8H	18.8	19.3	19.1	19.6	20.0	18.0	18.6	18.4	18.9	19.3
	12H	18.8	19.4	19.2	19.7	20.1	18.0	18.5	18.4	18.9	19.2
4H	2H	18.1	18.7	18.4	19.0	19.3	18.5	19.1	18.8	19.4	19.7
	3H	18.2	18.8	18.6	19.1	19.5	18.5	19.0	18.9	19.4	19.7
	4H	18.5	19.0	18.9	19.3	19.7	18.5	19.0	18.9	19.3	19.7
	6H	18.8	19.3	19.3	19.7	20.1	18.5	18.9	18.9	19.3	19.7
	8H	19.0	19.4	19.5	19.8	20.3	18.5	18.9	19.0	19.3	19.7
	12H	19.2	19.5	19.6	19.9	20.4	18.5	18.8	19.0	19.3	19.7
8H	4H	18.5	18.9	18.9	19.3	19.7	19.0	19.4	19.5	19.8	20.3
	6H	19.0	19.3	19.5	19.7	20.2	19.2	19.5	19.7	20.0	20.4
	8H	19.3	19.5	19.7	20.0	20.5	19.3	19.6	19.8	20.0	20.5
	12H	19.5	19.8	20.0	20.2	20.8	19.3	19.6	19.8	20.1	20.6
12H	4H	18.5	18.8	18.9	19.3	19.7	19.2	19.6	19.7	20.0	20.5
	6H	19.0	19.3	19.5	19.7	20.2	19.4	19.7	19.9	20.2	20.7
	8H	19.3	19.6	19.8	20.0	20.6	19.6	19.8	20.1	20.3	20.8
Variations with the observer position at spacing:											
S =	1.0H	2.5 / -2.4					2.5 / -2.3				
	1.5H	3.8 / -2.7					3.8 / -2.6				
	2.0H	5.5 / -2.8					5.5 / -2.7				