

Last information update: April 2025

Product configuration: RT83.S1

RT83.S1: Luminaire L=880 - Integrated DALI - Very Wide Flood (Down) optic - 51.7W 8308.5lm - 3500K - White/White/White Transparent

**Product code**

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Technical description

Luminaire made of painted extruded aluminium, frame and caps made of injection-moulded thermoplastic. Very Wide Flood optic (80°) in a Space Opti-Diamond (PMMA) version with a rear cover available in a White (Transparent White) or Black (Transparent Black) version. Integrated DALI dimmable power supply with 3500K CRI80 direct emission monochrome LED lamp (Mid-Power).

Installation

For an electrified track

Colour

White/White/White Transparent (S1)

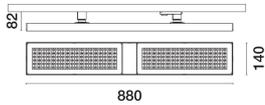
Weight (Kg)

2.73

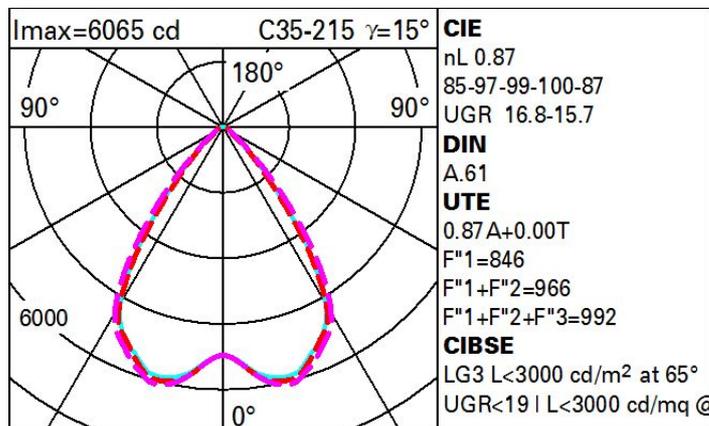
Mounting

dali track|three circuit track

Complies with EN60598-1 and pertinent regulations

**Technical data**

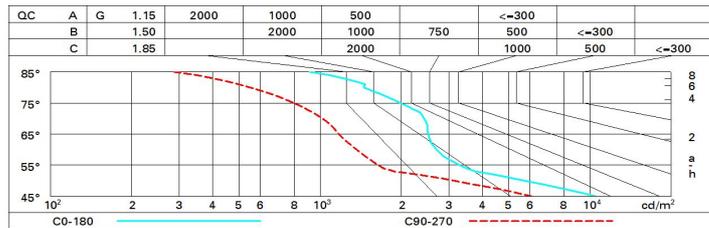
lm system:	8309	Lamp code:	LED
W system:	47	Number of lamps for optical assembly:	1
lm source:	9550	ZVEI Code:	LED
W source:	47	Number of optical assemblies:	1
Luminous efficiency (lm/W, real value):	176.8	Power factor:	See installation instructions
lm in emergency mode:	-	Inrush current:	10 A / - μs
Total light flux at or above an angle of 90° [Lm]:	0	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 12 luminaires B16A: 20 luminaires C10A: 20 luminaires C16A: 34 luminaires
Light Output Ratio (L.O.R.) [%]:	87	Minimum dimming %:	1
CRI (minimum):	80	Overvoltage protection:	2kV Common mode & 1kV Differential mode
Colour temperature [K]:	3500	Control:	DALI-2
MacAdam Step:	3		

Polar

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	72	67	63	60	66	62	62	58	67
1.0	77	72	68	65	71	67	67	63	73
1.5	82	79	75	73	77	75	74	70	81
2.0	86	83	80	78	82	79	78	75	87
2.5	88	85	84	82	84	82	81	78	90
3.0	89	87	86	84	86	85	83	81	93
4.0	91	89	88	87	88	87	85	83	95
5.0	91	90	89	88	89	88	86	84	96

Luminance curve limit



UGR diagram

Corrected UGR values (at 9550 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
ceiling/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										
2H	2H	10.7	17.4	17.0	17.7	17.9	15.8	10.5	10.1	10.8	17.0
	3H	10.8	17.5	17.1	17.7	18.0	15.7	10.4	10.0	10.7	16.9
	4H	10.8	17.5	17.2	17.8	18.1	15.6	10.3	10.0	10.6	16.9
	6H	10.8	17.4	17.2	17.8	18.1	15.6	10.2	10.0	10.6	16.8
	8H	10.8	17.4	17.2	17.7	18.1	15.6	10.1	10.0	10.6	16.8
12H	10.8	17.4	17.2	17.7	18.1	15.5	10.1	10.0	10.6	16.8	
4H	2H	10.5	17.2	16.9	17.5	17.8	15.8	10.5	10.2	10.8	17.1
	3H	10.7	17.2	17.1	17.6	17.9	15.8	10.3	10.2	10.7	17.0
	4H	10.8	17.2	17.2	17.6	18.0	15.8	10.3	10.2	10.6	17.0
	6H	10.8	17.2	17.3	17.6	18.1	15.7	10.2	10.2	10.6	17.0
	8H	10.8	17.2	17.3	17.6	18.1	15.7	10.1	10.2	10.6	17.0
12H	10.8	17.2	17.3	17.6	18.1	15.7	10.0	10.1	10.6	16.9	
8H	4H	10.7	17.1	17.1	17.5	17.9	15.8	10.2	10.2	10.6	17.0
	6H	10.8	17.1	17.2	17.5	18.0	15.8	10.1	10.3	10.6	17.0
	8H	10.8	17.1	17.3	17.5	18.0	15.8	10.0	10.3	10.6	17.0
	12H	10.8	17.0	17.3	17.5	18.0	15.8	10.0	10.3	10.6	17.0
12H	4H	10.6	17.0	17.1	17.4	17.9	15.8	10.1	10.2	10.6	17.0
	6H	10.7	17.0	17.2	17.5	18.0	15.8	10.0	10.3	10.6	17.0
	8H	10.8	17.0	17.3	17.5	18.0	15.8	10.0	10.3	10.6	17.0
Variations with the observer position at spacing:											
S =	1.0H	2.7 / -3.8					3.0 / -4.4				
	1.5H	5.2 / -4.3					5.2 / -4.9				
	2.0H	7.1 / -4.9					7.1 / -5.2				