

Last information update: April 2025

**Product configuration: RT77.S4**

RT77.S4: Luminaire L=880 - CASAMBI - Very Wide Flood (Down) optic - UGR&lt;19 - 37W 4654.5lm - 2700K - CRI 90 - Black/Black/Black 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. 2700K CRI90 direct emission monochrome LED lamp (Mid-Power). Version with UGR < 19 controlled luminance - in compliance with the standard for use in environments with video monitors ( $L \leq 3000 \text{ cd/m}^2$ ). Luminaire complete with power supply with CASAMBI Bluetooth technology, frequency 2.4 GHz. The luminaire can be controlled with the Casambi system app and components that enable on-off, dimming and scene recall functions. The app is available on the Apple Store and Google Play Store. It can be integrated in the system's mesh network that allows multiple luminaires to be controlled. Integrated Beacon that can be activated via an app (iBeacon) that enables smart functions for third party applications and the Jiminy Push Notification app.

**Installation**

For an electrified track

**Colour**

Black/Black/Black Transparent (S4)

**Weight (Kg)**

2.73

**Mounting**

dali track|three circuit track

**Notes**

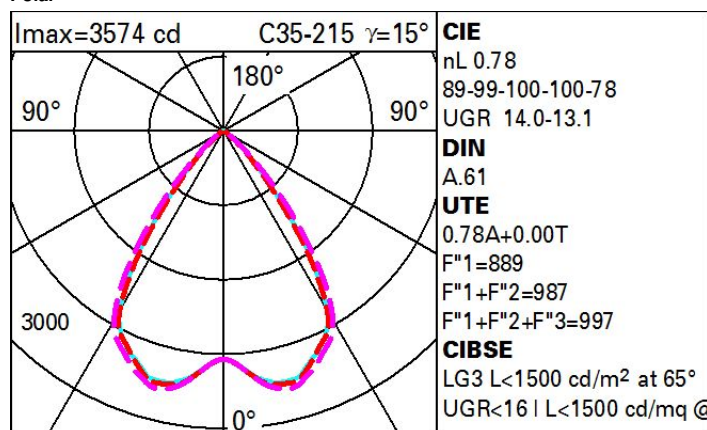
Max Luminaire-Luminaire distance 8 m.

The maximum distance is affected by physical obstacles, like walls, metal panels and the layout of the system.

Complies with EN60598-1 and pertinent regulations

**Technical data**

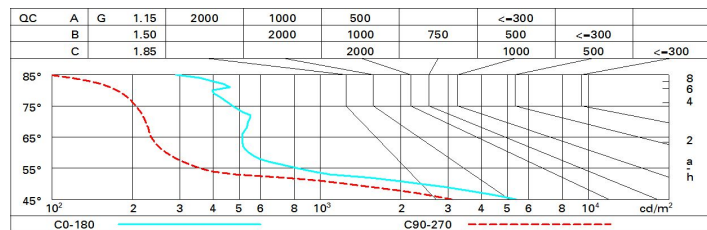
Im system:	4680	MacAdam Step:	3
W system:	37	Lamp code:	LED
Im source:	6000	Number of lamps for optical assembly:	1
W source:	37	ZVEI Code:	LED
Luminous efficiency (Im/W, real value):	126.5	Number of optical assemblies:	1
Im in emergency mode:	-	Power factor:	See installation instructions
Total light flux at or above an angle of 90° [Lm]:	0	Inrush current:	5 A / 50 µs
Light Output Ratio (L.O.R.) [%]:	78	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 31 luminaires B16A: 50 luminaires C10A: 52 luminaires C16A: 85 luminaires
CRI (minimum):	90	Overvoltage protection:	4kV Common mode & 2kV Differential mode
Colour temperature [K]:	2700	Control:	Casambi

**Polar**

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	66	62	59	56	61	58	58	55	70
1.0	70	66	63	61	65	62	62	59	76
1.5	75	72	69	67	71	69	68	65	84
2.0	78	75	74	72	74	73	72	69	89
2.5	79	78	76	75	76	75	74	72	92
3.0	81	79	78	77	78	77	76	74	94
4.0	82	81	80	79	79	79	77	75	96
5.0	82	82	81	80	80	79	78	76	97

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 6000 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	14.5	15.2	14.8	15.4	15.7	13.6	14.4	13.9	14.6	14.8
	3H	14.4	15.0	14.7	15.3	15.6	13.5	14.1	13.8	14.4	14.7
	4H	14.3	14.9	14.7	15.2	15.5	13.4	14.0	13.8	14.3	14.6
	6H	14.3	14.8	14.6	15.1	15.5	13.4	13.9	13.7	14.2	14.6
	8H	14.3	14.8	14.6	15.1	15.4	13.3	13.8	13.7	14.2	14.5
	12H	14.2	14.7	14.6	15.1	15.4	13.3	13.8	13.7	14.1	14.5
4H	2H	14.3	14.9	14.6	15.2	15.5	13.5	14.1	13.8	14.4	14.7
	3H	14.2	14.7	14.6	15.0	15.4	13.3	13.8	13.7	14.2	14.5
	4H	14.1	14.6	14.5	14.9	15.3	13.2	13.7	13.7	14.1	14.5
	6H	14.1	14.4	14.5	14.8	15.3	13.2	13.6	13.6	14.0	14.4
	8H	14.0	14.4	14.5	14.8	15.2	13.1	13.5	13.6	13.9	14.3
	12H	14.0	14.3	14.5	14.8	15.2	13.1	13.4	13.5	13.8	14.3
8H	4H	14.0	14.3	14.4	14.8	15.2	13.2	13.5	13.6	13.9	14.4
	6H	13.9	14.2	14.4	14.7	15.2	13.1	13.4	13.6	13.8	14.3
	8H	13.9	14.2	14.4	14.6	15.1	13.0	13.3	13.5	13.8	14.3
	12H	13.9	14.1	14.4	14.6	15.1	13.0	13.2	13.5	13.7	14.2
12H	4H	13.9	14.3	14.4	14.7	15.2	13.1	13.5	13.6	13.9	14.3
	6H	13.9	14.1	14.4	14.6	15.1	13.1	13.3	13.5	13.8	14.3
	8H	13.9	14.1	14.4	14.6	15.1	13.0	13.2	13.5	13.7	14.2
Variations with the observer position at spacing:											
S =	1.0H	3.6 / -8.7					3.8 / -9.6				
	1.5H	6.3 / -9.7					6.2 / -10.3				
	2.0H	8.3 / -10.3					8.2 / -10.6				