

LED LUMINAIRE MANUAL

Руководство по эксплуатации

Product Data sheet

V031350009200029
Last Update:10/9/2024

Model No.:RD1-J
LED recessed luminaire



- SKU 203417008712-49
- Frameless Energy saving lighting;
- Mounting Type: Ceiling recessed mounted
- DALI-2 certified;
- Embedded with Touch DIM/Corridor function;
- High flexibility thanks to wide operating range;

Benefits

- Amplitude dimming 1...100%;
- LED driver typ. Efficiency: 88 %
- The system solution for excellent visual comfort Large luminaire spacing;
- High uniformity and excellent visual comfort;
- CRI>90
- 50,000 hours lifetime at tc max.
- High quality of light with low ripple current < 5%
- Touch DIM/Corridor Function

Applications

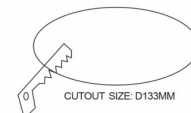
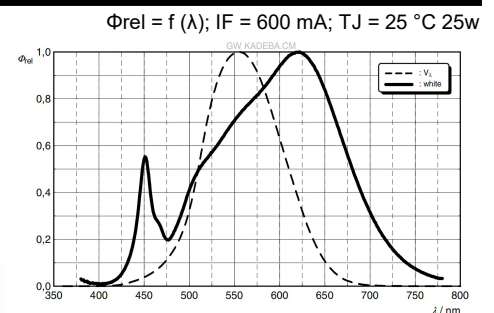
Office - Shop - Hospitality - Education
and other indoor place

Approvals (In preparation, if not printed on product label)



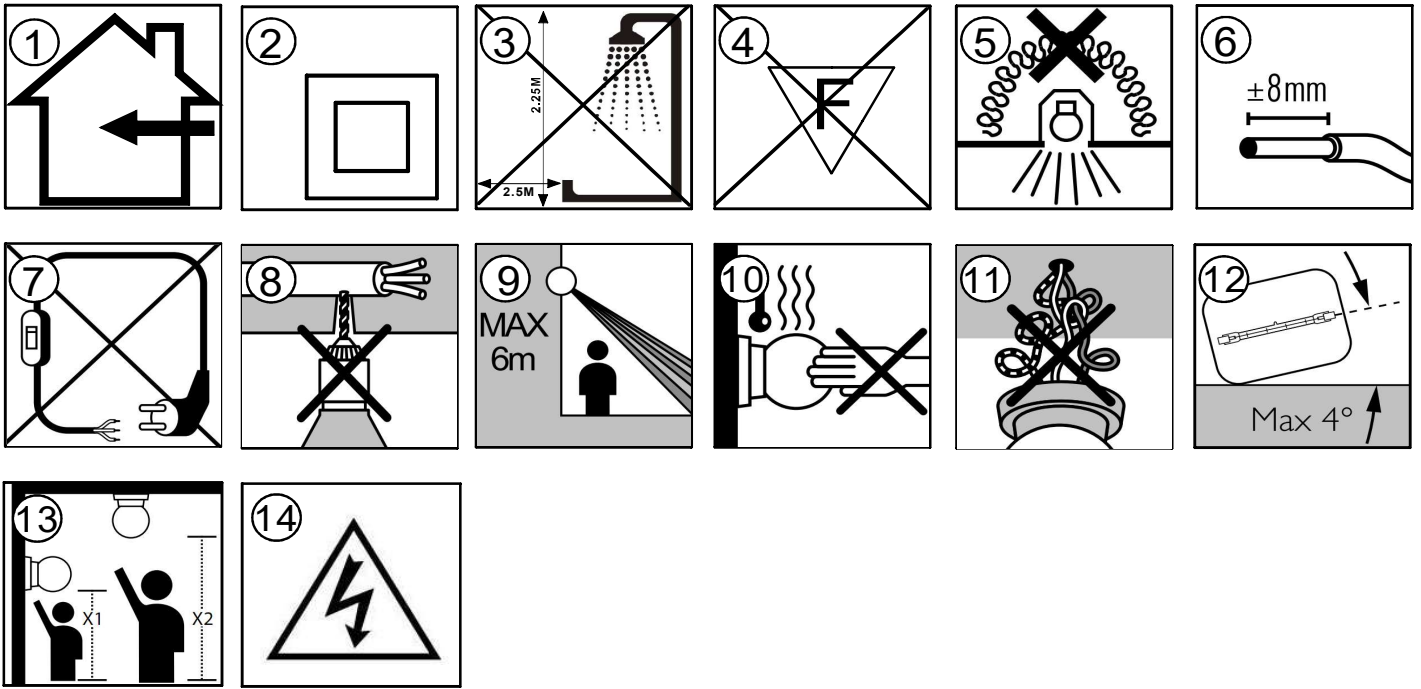
Specification

LED Light Source: Osram COB type GW KAFHBA.CM-SQTP-35S3-XX
LED driver: Osram type IT DALI 30/220-240/700 CS
Input: AC220/240V 50~60Hz
Power:25W
Color temperature(K): 3500K
Beam angle: 36°
Color rendering index(CRI): 90
IK rating:IK03
Physical Dimensions: Ø150*158mm
Cutout size: Ø133-138mm
Dimming/ addressable: DALI dimmable
Operating temperature range (°C): -10°C...+55°C
LED Flickering Rate: Ultra low (5% or less)



Materials and color finish

Body / construction: Aluminium die-cast
Housing color finished: White
Reflector: coated gold, matt silver, matt champagne, crystal white, matt white, matt black or gun-black



安全使用说明

安装、维护和修理前请务必关闭电源。

- 01-产品只能安装在室内。
- 02-防护等级为II,产品或组件具有双重绝缘或加强绝缘。
- 03-产品不可安装在浴室或其它潮湿环境。
- 04-产品不可直接安装在普通易燃表面。
- 05-产品不可覆盖绝热材料。
- 06-按图标所示为导线剥皮长度。
- 07-产品仅适合直接连接电源。
- 08-安装过程中请确保不会钻到天花板内的电线。
- 09-建议安装高度值。
- 10-本产品的部件会发热。
- 11-请勿夹紧或扭曲产品和安装面之间的电源线。
- 12-天花平面最大倾斜角度。
- 13-请安装在人体接触不到的地方。
- 14-存在触电危险,应由专业人员安装。

Safety instructions

Always switch off the power prior to installation, maintenance or repair activities.

- 01-The product should only be installed indoors
- 02-Protection class II: the product or component is provided with double or reinforced insulation.
- 03-The product is not suitable for installation in bathrooms.
- 04-The product is not suitable for direct mounting on normally flammable surfaces.
- 05-The product is not suitable for covering with thermally insulating material.
- 06-Strip the wire as indicated on the icon.
- 07-The product is only suitable for wiring directly to the electrical mains supply.
- 08-Ensure not to drill through electrical wires or any other obstruction in the wall or ceiling during installation.
- 09- The product can be mounted up to a maximum height of 6 m.
- 10- Parts of this product may get hot.
- 11-Electrical wiring may never be clamped or twisted between the product and the mounting surface.
- 12-This product should be mounted horizontally. For longer life, the bulb should not be at an angle greater than 4 degrees.

13-Mount the product out of arm reach (X1: for children, X2: for adults).

14- Caution: Risk of electric shock! The light source contained in this luminaire shall only be replaced by the manufacturer of his service agent or a similar qualified person.

Инструкция безопасности

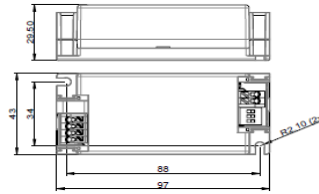
Перед проведением установки, сервисного обслуживания или ремонта всегда отключайте питание устройства.

- 01-изделие подходит только для использования в помещении,
- 02-класс защиты II:изделие или деталь выполнены с использованием двойной или усиленной изоляции.
- 03-изделие не может устанавливаться в ванных комнатах.
- 04-изделие не подходит для установки на возгораемых поверхностях.
- 05-изделие нельзя накрывать теплоизоляционным материалом.
- 06-проводите зачистку проводов как показано на значке.
- 07- изделие можно подключать только напрямую к электросети.
- 08- во время установки будьте внимательны, просверливая отверстия в стене или потолке, не задевайте провода и другие объекты.
- 09-максимально допустимая высота монтажа изделия составляет 26 м.
- 10-детали изделия могут нагреваться.
- 11-запрещается скручивать и сжимать электропроводку между изделием и поверхностью монтажа
- 11-монтаж изделия необходимо выполнить горизонтально. Для более долговечной эксплуатации угол наклона лампы не должен превышать 4 градуса.
- 12-монтаж изделия должен проводиться вне зоны досягаемости рукой (X1: для детей, X2: для взрослых).
- 13- Внимание!Риск поражения электрическим током! Замену источника света для этого светильника должен проводить только производитель, сервисный агент производителя или специалист с агент производителя или специалист с аналогичной квалификацией.

Light is OSRAM

OSRAM

Product Datasheet

IT DALI 30/220-240/700 CS
Constant Current DALI LED driver

Product Features

- Output currents: 350/400/450/500/550/600/650/700 mA
- Output voltage: 15 VDC – 42 VDC
- Amplitude dimming 1...100%
- Typ. Efficiency: 88 %
- Low stand-by consumption < 0.5 W
- Ambient temp range, ta: -20°C to + 50°
- Dipswitch interface
- Touch DIM/Corridor Function
- Low ripple < 5 %
- Low THD < 10 %
- Suitable for class I and II luminaires
- 50,000 hours lifetime at tc max.

Electrical Specifications

	Item	Value	Unit	Remarks
INPUT	Nominal Voltage	220 - 240	V	
	Nominal frequency	0 / 50 / 60	Hz	
	AC voltage range	198 – 264	V	
	DC voltage range	176 – 276	V	
	Maximum voltage	275	VAC	48hrs maximum
	AC Nominal current	0.161	A	Full load, 230V, 50Hz
	DC Nominal current	0.078	A	50% load, 230V, 0Hz
	Total Harmonic Distortion (THD)	< 10	%	Full load, 230 V, 50 Hz / see graphs
	Power factor	0.98		Full load, 230 V, 50 Hz / see graphs
	Efficiency	88	%	Full load, 230 V, 50 Hz, typical / see graphs
	Power losses	3.8	W	Maximum, full load
	No-load power	n/a	W	Load switching on output side is not permitted
	Network stand-by power	< 0.5	W	
	Protection class	II		Suitable for class I & II luminaires
	Leakage current	< 0.7	mA	Output floating
	Inrush current	30	A pk	twidth = 100µs typical (measured at 50% Ipeak)
Max. units per circuit breaker	B10: 25; C10: 37 B16: 40; C16: 60 B25: 62; C25: 93	pcs		
OUTPUT	Nominal voltage range	15 – 42	V	
	Maximum voltage	≤ 60	V	Open circuit
	Nominal current range	350/400/450/500/550/600/650/700	mA	Default current: 700mA
	Current accuracy	+/- 5	%	
	Current ripple	< 5	%	Ripple / average @ 100 Hz
	Pst LM	≤ 1		Full load
	SVM	≤ 0.4		Full load
	Nominal power range	5.3 – 29.4	W	
	Maximum power	29.4	W	Ta ≤ Max.
	Emergency output factor (EL)	0.15 – 0.5		EOFi = 0.15 – 0.5, @Ta=80 °C No hazard
Galvanic isolation	SELV		3,75 kVrms. Output to mains - Touch current < 0.7 mA	
DIM	Dimming control	Yes		DALI-2/TouchDIM/Corridor Function
	Dimming range	1 -100	%	@ Maximum nominal output current.
	Dimming technique	Analog dimming		
	PWM frequency	n/a	Hz	
	Galvanic isolation DALI/mains	Basic		
	Galvanic isolation DALI/output	SELV		
TouchDIM	Yes			

GW KAFHBA.CM



SOLERIQ® S 9

The SOLERIQ® S products were specifically designed for applications requiring large flux packages

Applications

- Downlights/Spotlights

Features:

- Package: Chip-on-Board
- Typ. Radiation: 120° (Lambertian emitter)
- Color temperature: 3000K - 5000K
- CRI: 90 (min.)
- ESD: 2 kV acc. to ANSI/ESDA/JEDEC JS-001 (HBM, Class 2)
- Luminous Flux: typ. 2193 lm @ 3000 K, 25 °C
- Luminous efficacy: typ. 122 lm/W @ 3000 K, 25 °C

GW KAFHBA.CM

Ordering Information

Type	Color temperature	Luminous Flux ¹⁾ $I_F = 500 \text{ mA}$ Φ_V	Ordering Code
GW KAFHBA.CM-SQTP-30S3-XX	3000 K	1940 ... 3040 lm	Q65113A0933
GW KAFHBA.CM-SQTP-35S3-XX	3500 K	1940 ... 3040 lm	Q65113A0932
GW KAFHBA.CM-SQTP-40S3-XX	4000 K	1940 ... 3040 lm	Q65113A0953
GW KAFHBA.CM-SQTP-50S3-XX	5000 K	1940 ... 3040 lm	Q65113A0952

Characteristics

$I_F = 500 \text{ mA}$; $T_J = 25 \text{ °C}$

Parameter	Symbol		Values
Viewing angle at 50% I_V	2φ	typ.	120 °
Forward Voltage ³⁾	V_F	typ.	36.00 V
Reverse current ²⁾	I_R		Not designed for reverse operation
Color Rendering Index ⁴⁾	CRI	min.	90
Electrical thermal resistance junction/solderpoint with efficiency $\eta_e = 42 \%$	$R_{thJS \text{ elec.}}$	typ.	0.78 K / W

¹ Version 1.1 | 2021-09-10