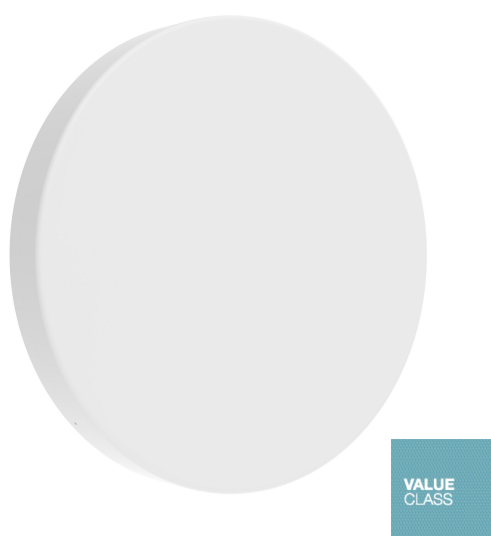


PRODUCT DATASHEET

SF DISC DA 300 V 21W 83040

SURFACE DISC DALI | Modern DALI-2 wall and ceiling luminaire with Multi Color and Multi Lumen



Areas of application

- Direct replacement for surface luminaires with integrated CFLni lamps
- Corridors
- Stairways
- Bathrooms
- Foyers

Product benefits

- Suitable luminaire for VIVARES and other DALI-2 Light Management Systems
- Extended services such as energy monitoring and remote maintenance possible with DALI versions
- Highly versatile due to selectable CCT (Multi Color) in 3000K and 4000K
- Indoor luminaire with high luminous efficacy up to 120 lm/W
- High color consistency with SDCM 3
- Tool-free electrical connection due to push button connector
- Easy locking system to prevent unauthorized access

Product features

- IoT-ready luminaire with DALI-2 technology
- Suitable for central battery emergency installations acc. to EN 60598-2-22
- Type of protection: IP54 (wall and ceiling)
- Impact resistance: IK10
- Lifetime (L80/B10): up to 75,000 h (at 25 °C)
- Polycarbonate (PC) housing, PC-diffuser



- Ambient temperature in operation: -20...+45 °C
- Glow Wire Test according to IEC 60695-2-12: 850 °C
- 5-pole terminal block, cable cross section up to 5 x 2.5 mm²
- Through-wiring possible
- Indoor use only, not suitable for outdoor use
- SF DISC family versions available: dimmable, on/off, DALI-2, sensor and/or emergency lighting function

TECHNICAL DATA**Electrical data**

Nominal wattage	21.00 W
Nominal voltage	220...240 V
Mains frequency	0/50/60 Hz
Nominal current	100 mA
Inrush current	25 A
Inrush current time T_{h50}	140 μ s
Max. number of luminaires per miniature circuit breaker B16	24
Max. number of luminaires per miniature circuit breaker C10	19
Max. number of luminaires per miniature circuit breaker C16	30
Power factor λ	> 0.90
Total harmonic distortion	< 20 %
Protection class	II
Surge capability (L-N)	1000 V
Operating mode	Integrated LED driver
Dimming interface	DALI-2

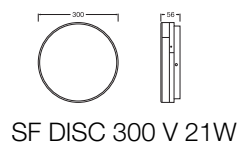
Photometrical data

Luminous flux	2520 lm
Luminous efficacy	120 lm/W
Color temperature	3000 K / 4000 K
Reference control setting of contained light source (Kelvin)	4000 K
Light color (designation)	Warm White / Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	3 sdcm
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	<0.4
Photobiological safety group acc. to EN62778	RG0
Beam angle	125 °



Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
21 W	3000 K	2394 lm	114 lm/W
21 W	4000 K	2520 lm	120 lm/W

Diameter	300.00 mm
Height	56.00 mm
Product weight	1190.00 g



Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003
Body material	Polycarbonate (PC)
Cover material	Polycarbonate (PC)
Light emitting surface material	Polycarbonate (PC)
Glow Wire Test according to IEC 60695-2-12	850 °C
Mercury content	0.0 mg

Application & Mounting

Ambient temperature range	-20...+45 °C
Temperature range at storage	-20...+80 °C
Type of connection	Push-in clamp
Type of protection	IP54
Protection class IK (shock resistance)	IK10
Dimmable	Yes
Type of dimming	DALI-2
Dimming range	1...100 %
IoT ready	Support of DALI data type PART 251, 252, 253 ¹⁾
Mounting type	Surface
Mounting location	Ceiling / Wall
Application environment	Indoor
Adjustable	No
With light source	Yes
Replaceable light source	No

¹⁾ Internet of Things. Supports data transfer via gateway to cloud-based monitoring platforms, such as LEDVANCE VIVARES Cloud

Lifespan

Lifespan L70/B50 at 25 °C	100000 h ¹⁾
Lifespan L80/B10 at 25 °C	75000 h ¹⁾
Lifespan L80/B50 at 25 °C	75000 h
Number of switching cycles	50000

¹⁾ t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

Control gear

Output current	500 mA
ECG - Output ripple current	< 5 %

Emergency lighting

Type of Emergency Lighting (EL)	EL certified driver (0Hz / DC operation) for central battery operation included
Type of emergency operation test	None
Wattage in emergency operation mode	1.5 W
Luminous flux in emergency operation mode	180 lm

Certificates & Standards

Standards	CE / CB / UKCA / EAC / ENEC / EPD
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
EPD	LEDV-00067-V01.01-EN
Replaceable light source (EPREL)	Only by an expert

Additional product data

Added function	MULTI SELECT / VIVARES
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EQUIPMENT / ACCESSORIES

- Mounting screws and dowels included

Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	G11247949 SF DISC
	Legal information	G11249437 Light Source Insert
	Legal information	Safety Insert G11218810

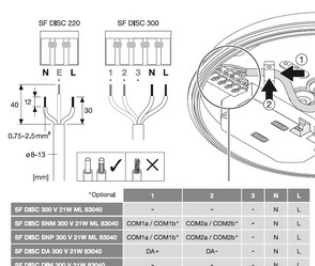
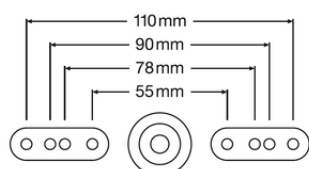
Documents and certificates		Document name
	Legal information	Legal Insert G11138809
	Legal information	ECO PANEL
	Declarations of conformity	SF DISC DA
	Declarations of conformity UKCA	SF DICS
	EU Data Act	DALI LED Driver and Luminaires
	EPD	EPD EN SURFACE DISC
Photometric and lighting design files		Document name
	IES file (IES)	SF DISC 300 V 21W 840
	LDT file (Eulumdat)	SF DISC 300 V 21W 840
	UGR file (UGR table)	SF DISC 300 V 21W 840
	Light distribution curve type cone	SF DISC 300 V 21W 840
	Light distribution curve type polar	SF DISC 300 V 21W 840
CAD/BIM files		Document name
	BIM Revit 3D	Surface Disc
	CAD STEP 3D	SF DISC 300 V 21W
	CAD STEP 3D	SF DISC 300V
Tender texts		Document name
	Tender documents	SURFACE DISC DALI DA 300 V 21W 83040-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854640520	Folding box 1	63 mm x 310 mm x 310 mm	1360.00 g	6.05 dm ³
4099854640537	Shipping box 6	397 mm x 332 mm x 344 mm	9040.00 g	45.34 dm ³

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

ADDITIONAL CATALOG INFORMATION



SURFACE DISC 220						
*P [W]	7	9	14			
CCT [K]	3000	4000	3000	4000	3000	4000
**Phi_v [lm]	680	720	1020	1080	1600	1680
***Eff. [lm/W]	97	103	113	120	114	120

SURFACE DISC 300						
*P [W]	9	15	21			
CCT [K]	3000	4000	3000	4000	3000	4000
**Phi_v [lm]	1030	1080	1710	1800	2394	2520
***Eff. [lm/W]	114	120	114	120	114	120

SF DISC 300 DIM/DALI		
*P [W]	21	
CCT [K]	3000	4000
**Phi_v [lm]	2394	2520
***Eff. [lm/W]	114	120

References / Links

– For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.