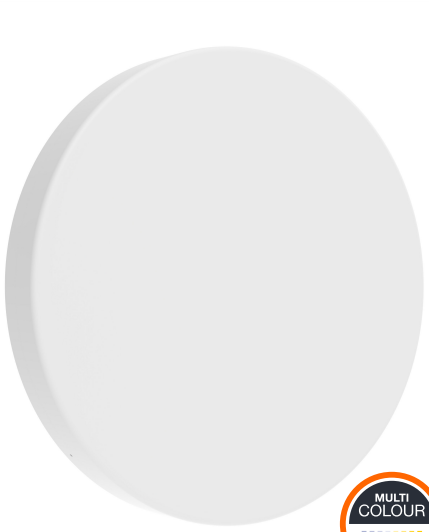
PRODUCT DATASHEET
SF DISC EL DIM 300 V 21W 83040

SURFACE DISC EMERGENCY DIM | Modern dimmable wall and ceiling luminaire with Multi Color and Emergency lighting function



Areas of application

- Emergency illumination of escape routes
- Antipanic lighting
- Direct replacement for surface luminaires with integrated CFLni lamps
- Corridors
- Stairways
- Bathrooms
- Foyers

Product benefits

- Operation of integrated emergency lighting function with long life LiFePO4 battery with 3h battery discharge time
- 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

- Luminaire suitable for normal lighting and emergency lighting
- Suitable for central battery emergency installations acc. to EN 60598-2-22
- Dimmable (with many common dimmers)
- Type of protection: IP54 (wall and ceiling)
- Impact resistance: IK10
- Lifetime (L80/B10): up to 75,000 h (at 25 °C)
- 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 mm^2



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- 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

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TECHNICAL DATA

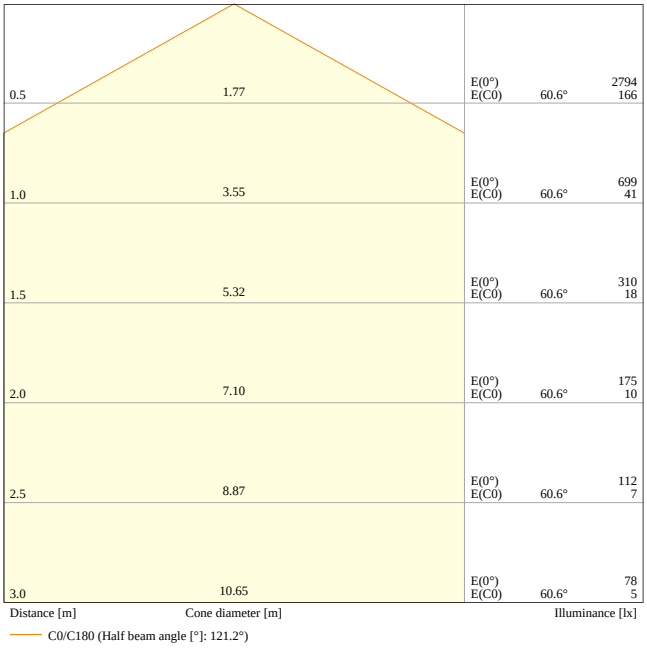
Electrical data

Nominal wattage	21.00 W
Nominal voltage	220…240 V
Mains frequency	50/60 Hz
Nominal current	90 mA
Inrush current	10,0 A
Inrush current time T_{h50}	100 µs
Max. number of luminaires per miniature circuit breaker B16	53
Max. number of luminaires per miniature circuit breaker C10	42
Max. number of luminaires per miniature circuit breaker C16	68
Power factor λ	> 0.90
Maximum total harmonic distortion	< 20 %
Protection class	II
Surge capability (L-N)	1000 V
Operating mode	Integrated LED driver
Dimming interface	PHASE CUT

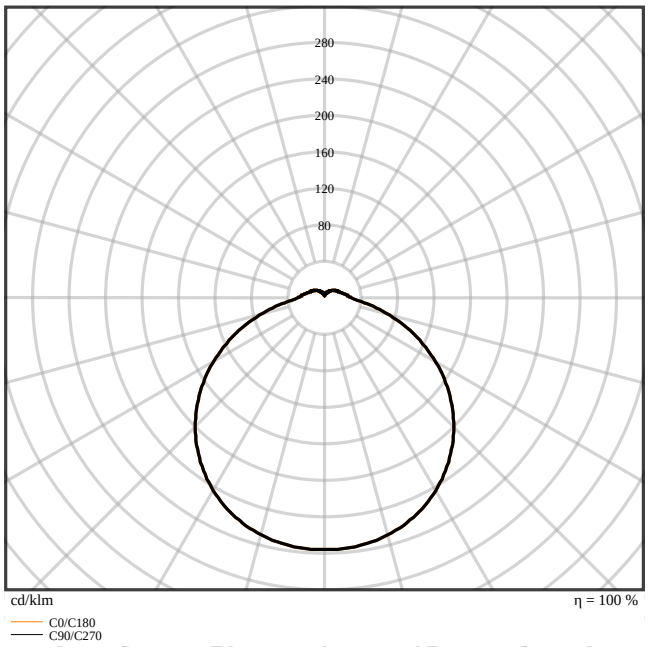
Photometrical data

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 °

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SF DISC 300 V 21W 840



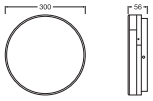
SF DISC 300 V 21W 840

Adjustable attributes

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

Dimensions & Weight

Diameter	300.00 mm
Height	56.00 mm
Product weight	1310.00 g



SF DISC 300 V 21W

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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	PHASE CUT
Dimming range	5…100 %
Mounting type	Surface
Mounting location	Ceiling / Wall
Application environment	Indoor
Mechanically adjustable	No
With light source	Yes
Replaceable light source	No

Lifespan

Lifespan L70/B50 at 25 °C	75000 h [1)]
Lifespan L80/B10 at 25 °C	75000 h [1)]
Lifespan L80/B50 at 25 °C	75000 h
Lifespan L90/B10 at 25 °C	55000 h [1)]
Number of switching cycles	100000

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	450 mA
Output ripple current (100 Hz)	< 5 %

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BATTERY

Type of Battery	LiFePO4
Battery size [GMS]	Others
Nominal voltage of battery	3.2 V
Nominal capacity of battery	3000 mAh
Battery charging time	24 h

Emergency lighting

Type of Emergency Lighting (EL)	EL unit (battery and controller) for decentral operation included
Area of emergency application	Anti-panic lighting / Escape route lighting
Type of emergency light operation	Non-maintained / Maintained
Type of emergency operation test	Automatic
Wattage in maintained operation mode	1.5 W
Wattage in emergency operation mode	1.5 W
Luminous flux in maintained operation mode	180 lm
Luminous flux in emergency operation mode	180 lm
Battery life in emergency operation mode	3 h

Certificates & Standards

Standards	CE / CB / UKCA / EAC / ENEC / EL
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
Replaceable light source (EPREL)	Only by an expert

Additional product data

Added function	MULTI COLOR

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
PDF	User instruction / safety instructions	G11247951 SF DISC EL

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	Documents and certificates	Document name
PDF	Legal information	G11251584 Light Source Insert
PDF	Legal information	Safety Insert G11218810
PDF	Legal information	Legal Insert G11252362
PDF	Legal information	ECO PANEL
PDF	Declarations of conformity	SF DISC
PDF	Declarations of conformity UKCA	SF DICS

	Photometric and lighting design files	Document name
IES	IES file (IES)	SF DISC 300 V 21W 840
LDT	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
RFA	BIM Revit 3D	Surface Disc
STEP	CAD STEP 3D	SF DISC 300 V 21W
STEP	CAD STEP 3D	SF DISC 300V

	Tender texts	Document name
TXT	Tender documents	SURFACE DISC EMERGENCY DIM EL DIM 300 V 21W 83040-en

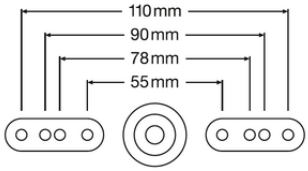
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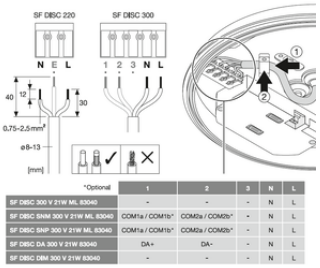
LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854640643	Folding box 1	63 mm x 310 mm x 310 mm	1480.00 g	6.05 dm^3
4099854640650	Shipping box 6	397 mm x 332 mm x 344 mm	9760.00 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





	1	2	3	N	L
SF DISC 300 V 21W ML 83040	-	-	-	N	L
SF DISC SNM 300 V 21W ML 83040	COM1a / COM1b*	COM2a / COM2b*	-	N	L
SF DISC SNP 300 V 21W ML 83040	COM1a / COM1b*	COM2a / COM2b*	-	N	L
SF DISC DA 300 V 21W 83040	DA+	DA-	-	N	L
SF DISC DIM 300 V 21W 83040	-	-	-	N	L

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

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