

PRODUCT DATASHEET

DP HE DA 1500 P 49W 840 IP65

DAMP PROOF HIGH EFFICIENCY DALI | Robust damp-proof luminaires with very high efficiency and DALI-2 technology



Areas of application

- Industrial and storage facilities
- DALI installations
- Workshops, assembly lines
- Passages, underpasses
- Parking garages
- Underground parking



Product benefits

- High compatibility thanks to DALI-2 certification
- Driver suitable for Emergency escape lighting systems acc. to EN 50172
- Uniform light distribution
- Easy upgradeability of light source and driver (EVERLOOP design)
- Enables participation in funding programs in certain countries to replace light source and driver
- Easy installation, no tools required for connection
- Low flicker $\leq 5\%$
- Energy savings up to 68 % (compared to luminaires that use fluorescent lamps)

Product features

- Very high luminous efficacy: up to 163 lm/W
- Lifetime (L80/B50): up to 100,000 h (at 25 °C)
- Housing and diffuser material: polycarbonate (PC)
- Compatible to Zhaga Book 26 LED light sources



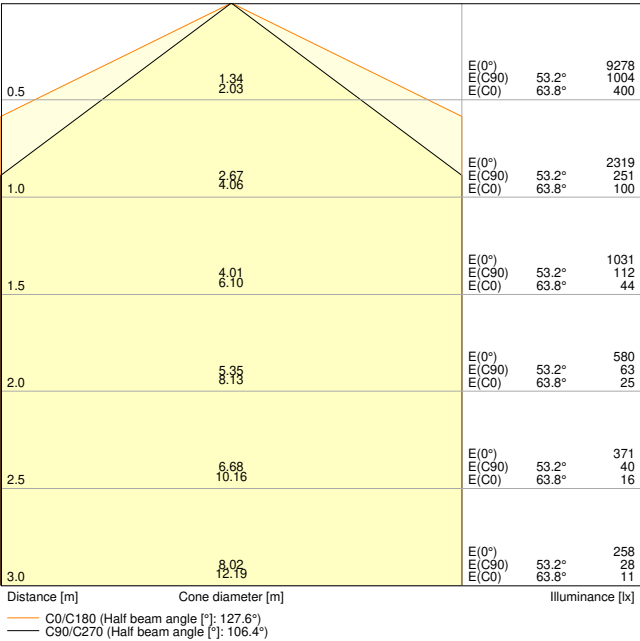
- Beam angle: 120°
- Protection rating: IP65
- Impact resistance: IK08

TECHNICAL DATA**Electrical data**

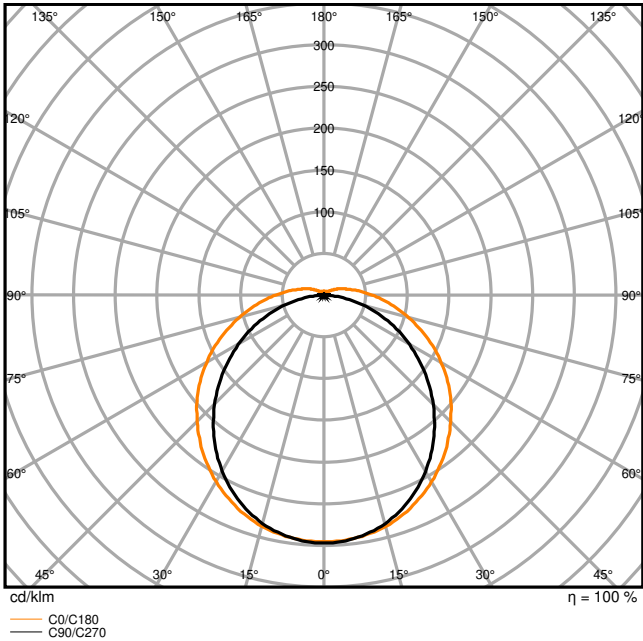
Nominal wattage	49.00 W
Nominal voltage	220...240 V
Mains frequency	0/50/60 Hz
Nominal current	215 mA
Inrush current	8.48 A
Inrush current time T_{h50}	620 μ s
Max. number of luminaires per miniature circuit breaker B16	22
Max. number of luminaires per miniature circuit breaker C10	21
Max. number of luminaires per miniature circuit breaker C16	36
Power factor λ	> 0.90
Total harmonic distortion	< 15 %
Protection class	I
Operating mode	Integrated LED driver
Dimming interface	DALI-2 / IoT

Photometrical data

Luminous flux	7800 lm
Luminous efficacy	160 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	≥ 80
Standard deviation of color matching	< 4 sdc _m
Low flicker	Yes
Flickering metric (Pst LM)	< 1
Stroboscope effect metric (SVM)	< 0.4
Photobiological safety group acc. to EN62778	RG1
Beam angle	120 °



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Dimensions & Weight

Length	1500.00 mm
Width	82.00 mm
Height	68.00 mm
Product weight	1616.00 g



Materials & Colors

Product color	Gray
Housing color	Gray
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...+40 °C
Temperature range at storage	-20...+80 °C
Type of connection	Screwless terminal, 5-Pole
Type of protection	IP65
Protection class IK (shock resistance)	IK08
Dimmable	Yes
Type of dimming	DALI2
IoT ready	Support of DALI data type PART 251, 252, 253 ¹⁾
Mounting type	Suspended/Surface
Mounting location	Ceiling
Application environment	Indoor
With light source	Yes
Replaceable light source	Yes

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	100000 h ¹⁾
Lifespan L80/B50 at 25 °C	100000 h
Lifespan L90/B10 at 25 °C	58000 h
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	300 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

Certificates & Standards

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

Additional product data

Product remark	When used in very cold applications as in cold storage, a special membrane might be required to ensure lifetime
Added function	EVERLOOP / VIVARES

EQUIPMENT / ACCESSORIES

- Mounting brackets, Antitheft protection, triangle, 2nd cable gland and 2 grommets included
- EVERLOOP luminaire: upgrades and replacements available

Upgrade and replacement components

Components Light Source

Product image	Product name	EAN
	LISOEV 1445X26 64 40W 840 S120 AL	4099854416774

Components Driver

Product image	Product name	EAN
		9006210779423

Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- Product in protection class I. All electrically conductive, metallic housing parts that can absorb voltage during operation or during maintenance in the event of a fault must be continuously connected to the protective earthing conductor.

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	DAMP PROOF HE DALI IP65
	Legal information	Informationstext 18 Abs 4 ElektroG
	Legal information	Safety Insert G11205497
	Legal information	LSI DAMP PROOF HE DALI
	Legal information	Legal Insert G11231526
	Declarations of conformity	DP HE
	Declarations of conformity UKCA	DP HE
	Certificates	ENEC DAMP PROOF HE ON OFF DALI 5TH
	EU Data Act	DALI LED Driver and Luminaires

Photometric and lighting design files		Document name
	IES file (IES)	DP HE DA 1500 P 49W 840 IP65
	LDT file (Eulumdat)	DP HE DA 1500 P 49W 840 IP65
	ULD file (DIALux)	DP HE DA 1500 P 49W 840 IP65
	ROLF file (RELUX)	DP HE DA 1500 P 49W 840 IP65
	UGR file (UGR table)	DP HE DA 1500 P 49W 840 IP65
	Light distribution curve type cone	DP HE DA 1500 P 49W 840 IP65
	Light distribution curve type polar	DP HE DA 1500 P 49W 840 IP65

CAD/BIM files		Document name
	BIM Revit 3D	DP HE
	CAD STEP 3D	DP-Gen2 1500

CAD/BIM files		Document name
Tender texts		Document name
	Tender documents	DAMP PROOF HIGH EFFICIENCY DALI 1500 P 49W 840 IP65-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854406997	Folding box 1	72 mm x 87 mm x 1,518 mm	1803.00 g	9.51 dm ³
4099854407000	Shipping box 6	1,538 mm x 196 mm x 256 mm	11551.00 g	77.17 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.

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.