

nHLL LED metallic linear light fitting
for harsh & hazardous areas



nHLL-2-3L/-4-5L/-4-8L / nHLL-2-3L-EM1 / nHLL-4-5L-EM1 linear light fittings

(Zone 2, 21 and 22)



A robust solution for lighting applications in hazardous areas

Eaton's Crouse-Hinds series nHLL linear LED light fitting is constructed with an aluminium housing and high-impact resistant polycarbonate cover, providing extreme durability and reliability in Zone 2, 21 and 22 hazardous areas.

The use of high-quality LED chips, coupled with our extensive experience in thermal management of electrical components in hazardous areas, ensures long service life of the nHLL series. The extended temperature range of -40 °C to +55 °C allows these luminaires to be used in a wide range of ambient conditions where an explosive atmosphere is to be expected.

With its long service life, low maintenance requirements and low energy consumption, the nHLL provides superior performance with a competitive payback versus traditional fluorescent fixtures. The luminaire series is also available as a single-battery emergency light fitting nHLL-EM for ambient temperatures from -25 °C to +55 °C.

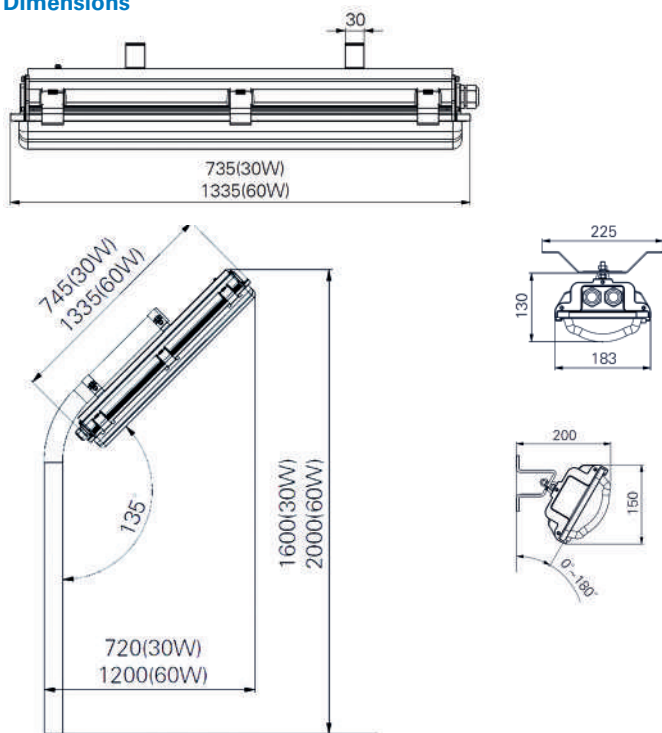
Primary Applications

Designed for use in outdoor and indoor hazardous areas where moisture or corrosion may be a problem, such as offshore oil platforms, pharmaceutical and chemical plants, oil refineries and industrial locations

Design Features

- Polycarbonate, 4J impact resistant lens
- Copper free aluminum housing for excellent corrosion resistance and heat transfer properties
- IP66 rating
- Suitable for Zone 2, 21 and 22 hazardous areas
- Highest temperature class T6
- Ex-e technology for easy maintenance
- Operating ambient temperature:
-40 °C (nHLL-EM: -25 °C) up to +55 °C

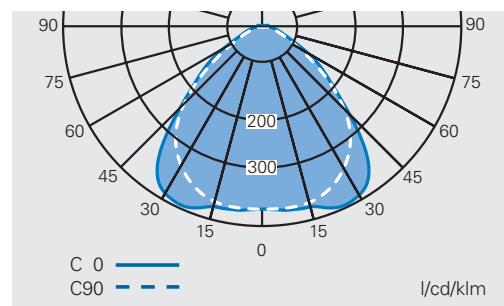
Dimensions



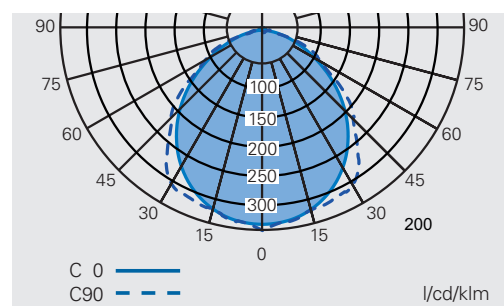
Dimensions in mm

Polar curve

nHLL-2/nHLL-2-EM



nHLL-4/nHLL4_EM



Technical data

nHLL linear LED



Certifications and compliances		nHLL-2-C2-3L	nHLL-4-C2-5L/8L
EC-Type Examination Certificate	SEV 18 ATEX 0171X	SEV 18 ATEX 0171X	SEV 18 ATEX 0171X
IECEX Certificate of Conformity	IECEX NEP 18.0003X	IECEX NEP 18.0003X	IECEX NEP 18.0003X
Marking accd. to 2014/34/EU	Ⓢ II 3 G Ex db ec ib mb IIC T5/T6 Gc Ⓢ II 2 D Ex tb IIIC T80°C Db	Ⓢ II 3 G Ex db ec ib mb IIC T5/T6 Gc Ⓢ II 2 D Ex tb IIIC T80°C Db	Ⓢ II 3 G Ex db ec ib mb IIC T5/T6 Gc Ⓢ II 2 D Ex tb IIIC T80°C Db
Marking accd. to IECEx	Ex db ec IIC T5/T6 Gc	Ex ec ib mb IIC T5/T6 Gc Ex tb IIIC T80 °C Db	Ex ec ib mb IIC T5/T6 Gc Ex tb IIIC T80 °C Db
Permissible ambient temperature	-40 °C up to +55 °C	-40 °C up to +55 °C	-40 °C up to +55 °C
Degree of protection accd. to EN 60529	IP66	IP66	IP66

LED System

Life expectancy LED module	L70 = 110,000 h at ta=25°C	L70 = 110,000 h at ta=25°C
CRI	> 70	> 70
Rated luminous flux of the luminaire (typical, ± 10 %)	3000 lm	5000 lm / 8000lm
Illuminance at measurement plane	comparable with luminaires for fluorescent lamps	comparable with luminaires for fluorescent lamps
Lamp/illuminant	40 W	60 W / 70 W
Light colour	5700 K	5700 K

Electrical Ratings

Rated voltage	100 V - 240 V AC 108 V - 250 V DC	100 V - 240 V AC 108 V - 250 V DC
Power consumption	40 W	60 W / 70 W
Frequency	50 - 60 Hz	50 - 60 Hz
Power factor cos φ	≥ 0.9	≥ 0.9
Circuit	EVG	EVG
Protection class	I	I
Connecting terminals	L1, L2, L3, L, N, PE; max. 2 x 6 mm² per terminal	L1, L2, L3, L, N, PE; max. 2 x 6 mm² per terminal

Fixture specifications

Dimensions (L x W x H)	735 x 183 x 130 mm	1335 x 183 x 130 mm
Weight	5 kg	10 kg
Enclosure material	Copper-free Aluminium	Copper-free Aluminium
Enclosure colour	Natural Aluminium / grey	Natural Aluminium / grey
Protective cover / protective bowl	Polycarbonate	Polycarbonate
Degree of protection accd. to EN 60529	IP66	IP66
Cable glands / gland plates / enclosure drilling	M25 x 1.5 thread ²⁾	M25 x 1.5 thread ²⁾

¹⁾ Please ask our sales representatives for the special order number

²⁾ With dustcover if entry/thread is not closed

Delivery without fixing material and cable glands

Mounting accessories see Main catalogue Part 1 Capt. 2.16.

Cable glands see Main catalogue Part 2 Capt. 2.3



Certifications and compliances nHLL-2-C2-3L-EM1

EC-Type Examination Certificate	SEV 18 ATEX 0171X
IECEX Certificate of Conformity	IECEX NEP 18.0003X
Marking accd. to 2014/34/EU	Ex II 3 G Ex ec ib mb IIC T5/T6 Gc Ex II 2 D Ex tb IIIC T80°C Db
Marking accd. to IECEX	Ex ec ib mb IIC T5/T6 Gc Ex tb IIIC T80 °C Db
Permissible ambient temperature	-25 °C up to +55 °C
Degree of protection accd. to EN 60529	IP66

nHLL-4-C2-5L-EM1

LED System

Life expectancy LED module	L70 = 110,000 h at ta=25°C	L70 = 110,000 h at ta=25°C
CRI	> 70	> 70
Rated luminous flux of the luminaire (typical, ± 10 %)	3000 lm	5000 lm
Luminous flux in emergency operation 25%	700 lm	1425 lm
Illuminance at measurement plane	comparable with luminaires for fluorescent lamps	comparable with luminaires for fluorescent lamps
Lamp/illuminant	40 W	60 W
Light colour	5700 K	5700 K

Electrical Ratings

Rated voltage	100 V - 240 V AC 108 V - 250 V DC	100 V - 240 V AC 108 V - 250 V DC
Power consumption	40 W	60 W
Frequency	50 - 60 Hz	50 - 60 Hz
Power factor cos φ	≥ 0.9	≥ 0.9
Circuit	EVG	EVG
Battery type	Ni-Cd 3 Ah	Ni-Cd 6 Ah
Rated emergency lighting duration	1,5 h	1,5 h
Protection class	I	I
Connecting terminals	L1, L2, L3, L, N, PE; max. 2 x 6 mm ² per terminal	L1, L2, L3, L, N, PE; max. 2 x 6 mm ² per terminal

Fixture specifications

Dimensions (L x W x H)	735 x 183 x 130 mm	1335 x 183 x 130 mm
Weight	5 kg	10 kg
Enclosure material	Copper-free Aluminium	Copper-free Aluminium
Enclosure colour	Natural Aluminium / grey	Natural Aluminium / grey
Protective cover / protective bowl	Polycarbonate	Polycarbonate
Degree of protection accd. to EN 60529	IP66	IP66
Cable glands / gland plates / enclosure drilling	M25 x 1.5 thread ²⁾	M25 x 1.5 thread ²⁾

¹⁾ Please ask our sales representatives for the special order number

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Delivery without fixing material and cable glands

Mounting accessories see Main catalogue Part 1 Capt. 2.16.

Cable glands see Main catalogue Part 2 Capt. 2.3

Ordering details

nHLL linear LED



Ordering details

nHLL-2-C2-3L

nHLL-4-C2-5L/8I

Type	Through wiring		Cable glands/threads	Order-No.
	single sided	twin sided		
nHLL				
nHLL-2-C2-3L-1/6-225	X		2 x M25	CCL1653760A
nHLL-2-C2-3L-2/6-225		X	2-2 x M25	CCL1653768A
nHLL-4-C2-5L-1/6-225	X		2 x M25	CCL1653920A
nHLL-4-C2-5L-2/6-225		X	2-2 x M25	CCL1653928A
nHLL-4-C2-8L-1/6-225	X		2x M25	CCL1654016A
nHLL-4-C2-8L-2/6-225		X	2-2 x M25	CCL1654024A

Ordering details

nHLL-2-C2-3L-EM1

nHLL-4-C2-5L-EM1

Type	Through wiring		Cable glands/threads	Order-No.
	single sided	twin sided		
nHLL				
nHLL-2-C2-3L-EM1-1/6-225	X		2 x M25	CCL1653776A
nHLL-2-C2-3L-EM1-2/6-225		X	2-2 x M25	CCL1653784A
nHLL-4-C2-5L-EM1-1/6-225	X		2 x M25	CCL1653936A
nHLL-4-C2-5L-EM1-2/6-225		X	2-2 x M25	CCL1653944A



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