



Powering Business Worldwide

CROUSE-HINDS EX-PROOF BROCHURES INDEX

1. ExLin_Product-brochure-EN
2. GHG6277_type_E_EN_Step1
3. IEC_Linear_solutions_brochure
4. Industrial_Plugs_and_Receptacles_EN
5. Industrial_portfolio
6. LED_portfolio_complete

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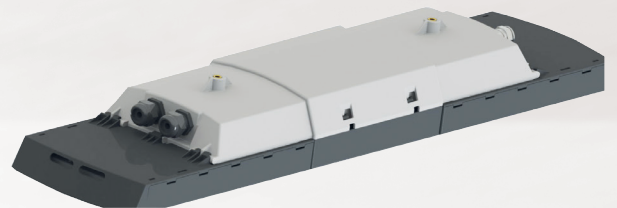
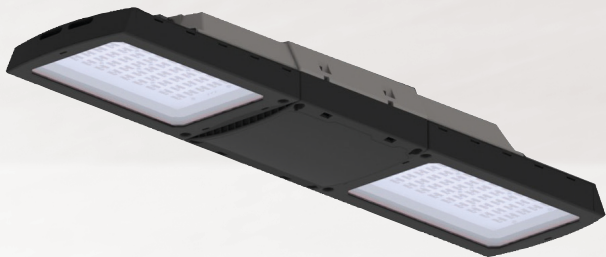
Talep Formu: http://electricalsector.eaton.com/tr-tr_EatonCare?_ga=2.196266988.110908585.1592902700-980342204.1571992380

Explosion protected
linear light fixture

CROUSE-HINDS
SERIES

CEAG ExLin

LED linear fixtures for hazardous areas



EATON

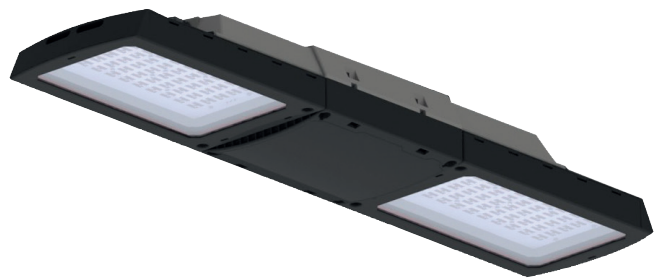
Powering Business Worldwide



Introducing CEAG ExLin

A linear LED engineered for use in
Zone 1 and 21 hazardous areas.

CEAG ExLin delivers longer life,
improved efficiency and superior
performance with a competitive
payback vs. fluorescent fixtures.



The following CEAG ExLin models will replace
2x18W, 2x36W and 2x58W fluorescent fixtures

Model	Typical lumens with clear glass cover	Wattage	Lumens per watt	Equivalent fluorescent luminaire	Typical energy savings / lifetime
ExLin 3L-1	2,750	22W	125	2 x 18 W	> 40%
ExLin 5L-1	5,300	44W	120	2 x 36 W	> 40%
ExLin 5L-2	5,480	44W	125	2 x 36 W	> 40%
ExLin 7L-2	8,120	67W	121	2 x 58 W	> 40%

Applications:

- Designed to provide general illumination where moisture, dust, corrosion, and extreme temperature exist
- Areas requiring frequent on-and-off of lights
- Oil and gas refineries, petrochemical facilities, food and beverage facilities, platforms, loading docks, tunnels, outdoor wall and stanchion mounted general area lighting, and where flammable vapors and gases are present.

Why CEAG ExLin LED?

Safe, reliable, efficient. CEAG ExLin fixtures combine state-of-the-art LED technology with optimised thermal management and a time-tested enclosure to extend service life in extreme environments.



Superior performance and efficiency

- Replaces 2x18W, 2x36W and 2x58W fluorescent fixtures
- Rated life of 100,000 hours at 25°C based on L90C5 provides long term, low-maintenance operation
- Up to 120 LM/W provides up to 40% energy efficiency compared to traditional fluorescent fixtures
- Operating temperature from -40°C to +55°C

Optimised light distribution with optics and lens options

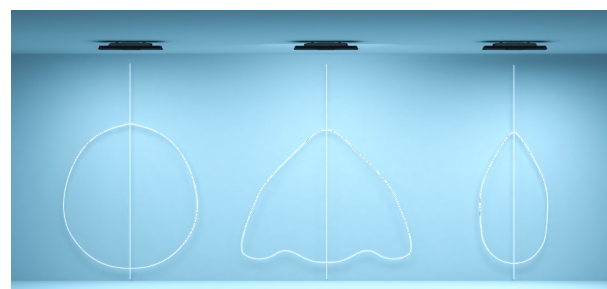
- Standard, narrow and wide beam optics optimise light distribution, providing light where the customer needs it with the potential to reduce the number of fixtures required
- Clear or diffused (frosted) LED module cover available in glass provides application flexibility. Also with stray light protection.
- The laminated glass version with external plastic foil prevents any glass splitters from falling, allowing safe use in critical application such as Food & Beverage, Chemical and Pharmaceutical industries

Low profile and lightweight design with drop in mounting compatibility to CEAG eLLK fluorescent

- Decreases footprint in confined applications and reduces installation effort
- Same fixing point as eLLK 2x18W fixtures and a mounting kit available allowing for easy replacement of 2x36W and 2x58W without changing cables or adding drilled holes

State-of-the-art LED technology coupled with a long history of hazardous area lighting design expertise

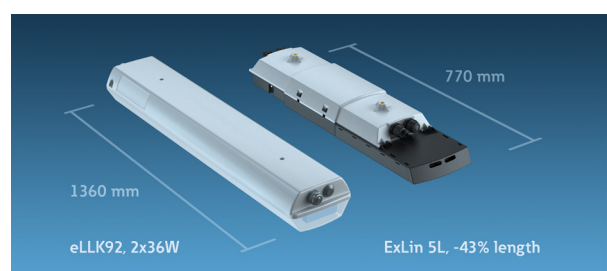
- LED light strings operate independently. Should one string fail, all other strings will continue to work, avoiding complete loss of illumination
- Enclosure material is time-tested and field-proven for durability in harsh and hazardous applications globally
- Optimised thermal management for extending service life in extreme environments



Standard

Wide

Narrow



1360 mm

eLLK92, 2x36W

770 mm

ExLin 5L, ~43% length

CEAG ExLin technical specifications:

Certifications and compliances:

IECEX / ATEX Standards:

EC-Type Examination Certificate

- BVS 18 ATEX E 037 X

IECEX-Certification of conformity

- IECEX BVS 18.0028X

Marking accd. to 2014/34/EU

- Ex II 2G Ex eb ib op is q IIC T4/T5 Gb
- Ex II 2D Ex tb op is IIIC T 80/110°C Db

Marking accd. to IECEX

- Ex eb ib op is q IIC T4/T5 Gb
- Ex tb op is IIIC T 80/110°C Db

Permissible ambient temperature, depending on configuration

- -40°C up to +55°C*

Degree of protection accd. to EN 60529

- IP66/67

IK-class according to IEC/EN 62262

- IK10

* up to +50°C for 3L-1 and 5L-2 with through wiring and plastic cable glands. Up to +45°C for 5L-1 and 7L-2 with through wiring and plastic cable glands



3L-1 and 5L-1 models

5L-2 and 7L-2 models

LED system:

- Light colour / CRI: 5000K / 70 and 80 (4000K on request)
- Optics: Standard, narrow beam, wide beam.

Fixture life (IEC 62722):

LED

- L90 ~100,000 h at ta = +25 °C
- L85 ~75,000 h at ta = +55 °C

Control gear

- C5 ~100,000 h at ta = +25 °C
- C10 ~75,000 h at ta = +55 °C

Standard materials:

- Fixture enclosure - Glassfibre reinforced polyester
- LED module cover - toughened glass or plastic-laminated glass, clear or opaque

Dimensions and weights:

ExLin 3L-1 and 5L-1

- 770 x 201 x 115 mm
- 6.7 kg

ExLin 5L2 and 7L-2

- 931 x 201 x 115 mm
- 8.0 kg

Electrical ratings:

Model	ExLin 3L-1	ExLin 5L-1 / 5L-2	ExLin 7L-2
Voltage	110 up to 277 V AC/DC	110 up to 277 V AC/DC	110 up to 277 V AC/DC
Power consumption	22W	44W	67W
Lumens (clear glass cover) †	2750	5300/5480	8120
Lumens (frosted glass cover) †	2370	4580/4680	6920
Frequency	0/50 - 60 Hz	0/50 - 60 Hz	0/50 - 60 Hz
Inrush current	6A for 1ms	6A for 1ms	10A for 1ms
Power factor cos φ @ 230 V	≥ 0.92	≥ 0.95	≥ 0.95
Circuit	EVG	EVG	EVG
Protection class	I	I	I
Immunity to surge voltages according to EN6100-4-5	4 kV, L-N and L-PE	4 kV, L-N and L-PE	4 kV, L-N and L-PE
THD @230V	8%	5%	5%

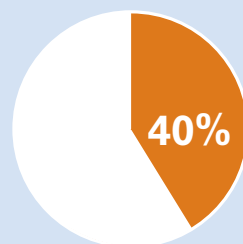
† Lumen values apply to 5000K light colour, 70 CRI fixtures with standard optic. Lumen output may vary slightly for different models.

LED vs. fluorescent savings at a glance

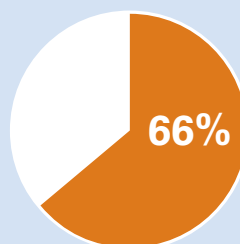
Why are so many facilities making the switch from fluorescent to LED?

The numbers say it all.

CEAG ExLin vs. x 36W Fluorescent



40% REDUCTION IN ENERGY COSTS



66% LOWER TOTAL COST OF OWNERSHIP



100% LAMP MAINTENANCE REDUCTION

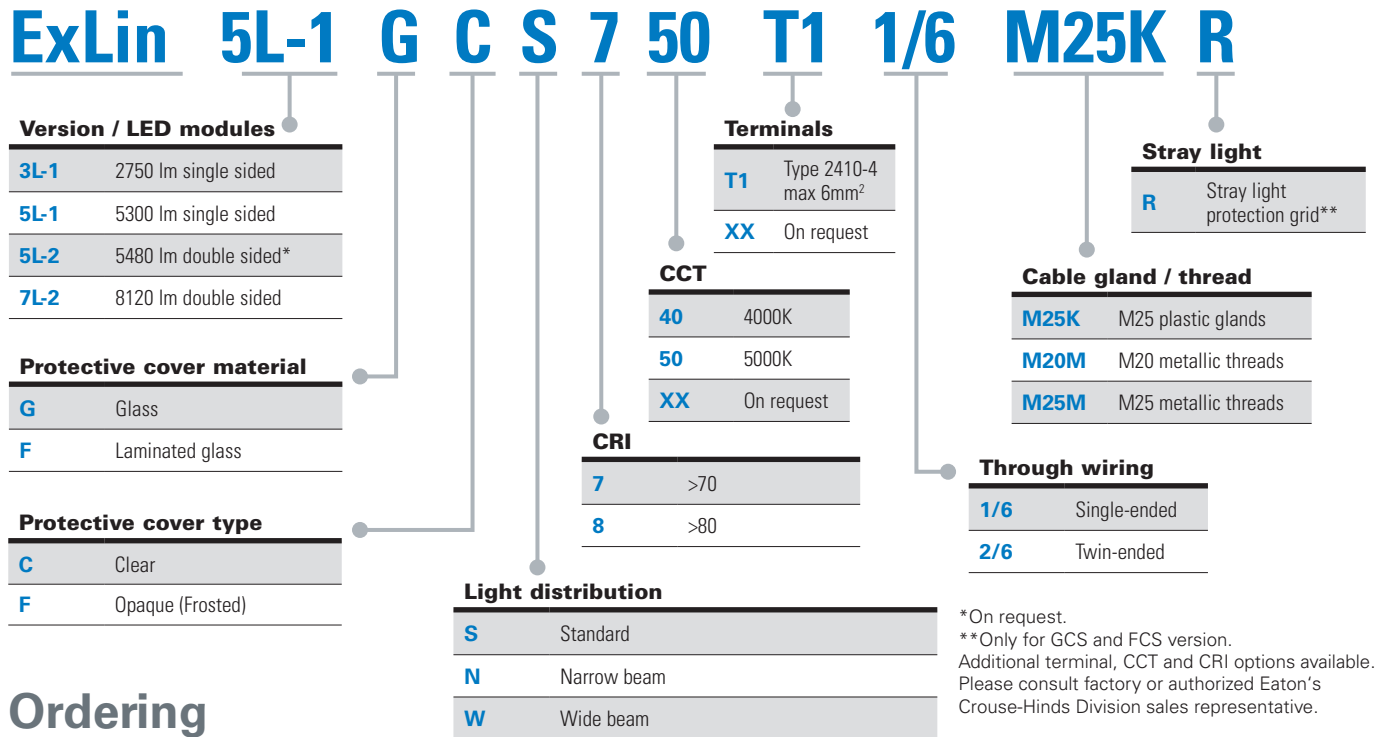
Assumptions: Calculations based on overall life of the LED system. Energy cost of €0.09 per kilowatt; 24 hour per day operation; labor rate of €75 each for 2 workers; average time for fixture maintenance of 2 hours.

Catalog Numbering System:

Part number example

ExLin 5L-1 G C S 7 50 T1 1/6 M25K R

CEAG ExLin linear, 5300 lumens, glass lens, clear lens, standard light beam, >70 CRI, 5000K, Type 2410-4 terminals, single-ended wiring, M25 plastic cable gland



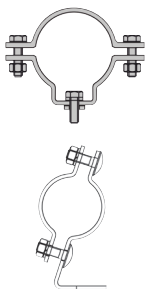
Ordering information:

Model	Cover type	Light distribution	Through wiring single-ended	twin-ended	Cable gland/thread	CRI70	Order No CRI80
ExLin 3L-1							
ExLin 3L-1 G C S 750 T1 1/6 M25K	Glass, Clear	Standard	X		M25 Plastic cable gland	1 2300 120 101	1 2300 320 101
ExLin 3L-1 G C S 750 T1 2/6 M25K	Glass, Clear	Standard		X	M25 Plastic cable gland	1 2300 120 103	1 2300 320 103
ExLin 3L-1 G C S 750 T1 1/6 M20M	Glass, Clear	Standard	X		M20 Metal thread	1 2300 120 109	1 2300 320 109
ExLin 3L-1 G C S 750 T1 2/6 M20M	Glass, Clear	Standard		X	M20 Metal thread	1 2300 120 111	1 2300 320 111
ExLin 3L-1 G F S 750 T1 1/6 M25K	Glass, Frosted	Standard	X		M25 Plastic cable gland	1 2300 125 101	1 2300 325 101
ExLin 3L-1 G F S 750 T1 2/6 M25K	Glass, Frosted	Standard		X	M25 Plastic cable gland	1 2300 125 103	1 2300 325 103
ExLin 3L-1 G F S 750 T1 1/6 M20M	Glass, Frosted	Standard	X		M20 Metal thread	1 2300 125 109	1 2300 325 109
ExLin 3L-1 G F S 750 T1 2/6 M20M	Glass, Frosted	Standard		X	M20 Metal thread	1 2300 125 111	1 2300 325 111
ExLin 5L-1							
ExLin 5L-1 G C S 750 T1 1/6 M25K	Glass, Clear	Standard	X		M25 Plastic cable gland	1 2300 140 101	1 2300 340 101
ExLin 5L-1 G C S 750 T1 2/6 M25K	Glass, Clear	Standard		X	M25 Plastic cable gland	1 2300 140 103	1 2300 340 103
ExLin 5L-1 G C S 750 T1 1/6 M20M	Glass, Clear	Standard	X		M20 Metal thread	1 2300 140 109	1 2300 340 109
ExLin 5L-1 G C S 750 T1 2/6 M20M	Glass, Clear	Standard		X	M20 Metal thread	1 2300 140 111	1 2300 340 111
ExLin 5L-1 G F S 750 T1 1/6 M25K	Glass, Frosted	Standard	X		M25 Plastic cable gland	1 2300 145 101	1 2300 345 101
ExLin 5L-1 G F S 750 T1 2/6 M25K	Glass, Frosted	Standard		X	M25 Plastic cable gland	1 2300 145 103	1 2300 345 103
ExLin 5L-1 G F S 750 T1 1/6 M20M	Glass, Frosted	Standard	X		M20 Metal thread	1 2300 145 109	1 2300 345 109
ExLin 5L-1 G F S 750 T1 2/6 M20M	Glass, Frosted	Standard		X	M20 Metal thread	1 2300 145 111	1 2300 345 111
ExLin 7L-2							
ExLin 7L-2 G C S 750 T1 1/6 M25K	Glass, Clear	Standard	X		M25 Plastic cable gland	1 2300 170 101	1 2300 370 101
ExLin 7L-2 G C S 750 T1 2/6 M25K	Glass, Clear	Standard		X	M25 Plastic cable gland	1 2300 170 103	1 2300 370 103
ExLin 7L-2 G C S 750 T1 1/6 M20M	Glass, Clear	Standard	X		M20 Metal thread	1 2300 170 109	1 2300 370 109
ExLin 7L-2 G C S 750 T1 2/6 M20M	Glass, Clear	Standard		X	M20 Metal thread	1 2300 170 111	1 2300 370 111
ExLin 7L-2 G F S 750 T1 1/6 M25K	Glass, Frosted	Standard	X		M25 Plastic cable gland	1 2300 175 101	1 2300 375 101
ExLin 7L-2 G F S 750 T1 2/6 M25K	Glass, Frosted	Standard		X	M25 Plastic cable gland	1 2300 175 103	1 2300 375 103
ExLin 7L-2 G F S 750 T1 1/6 M20M	Glass, Frosted	Standard	X		M20 Metal thread	1 2300 175 109	1 2300 375 109
ExLin 7L-2 G F S 750 T1 2/6 M20M	Glass, Frosted	Standard		X	M20 Metal thread	1 2300 175 111	1 2300 375 111

Mounting Accessories (Order Separately)

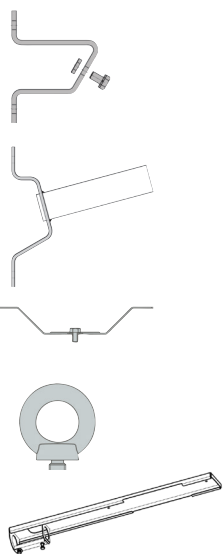
Pipe Clamps

Ordering Code	Description
2 2480 462 000 *	2 pcs. R12 (1 1/4"), Ø 38 - 42 mm with screws and polyamide washer, hot-dip galvanized
2 2480 472 000 *	2 pcs. R22 (1 1/2"), Ø 47 - 51 mm with screws and polyamide washer, hot-dip galvanized
2 2480 482 000 *	2 pcs. R32 (2"), Ø 56 - 60 mm with screws and polyamide washer, hot-dip galvanized
NOR 000 005 009 211	1 pcs. A8 (1 1/2") D 47 - 51 mm for AB 12.. with screws and polyamide washer, hot-dip galvanized
NOR 000 005 009 229	1 pcs. A9 (2") D 56 - 60 mm for AB 12.. with screws and polyamide washer, hot-dip galvanized
2 2480 550 010	2 pcs. Two-part, for pipe mounting LB 48 - FT with screws and polyamide washer, hot-dip galvanized



Fixing Accessories

Ordering Code	Description
2 2480 550 013	2 pcs. luminaire mounting bracket with 30° angle, wall mounting LH 30 - FT, hot-dip galvanized
2 2480 550 014	2 pcs. luminaire mounting bracket with 45° angle, wall mounting LH 45 - FT, hot-dip galvanized
2 2480 000 122	2 pcs. wall mounting bracket with 30° angle, with screws and polyamide washer, hot-dip galvanized
NOR 000 005 009 196	1 pcs. wall bracket 45° with screws and polyamide washer, hot-dip galvanized
2 2483 027 000	1 pcs. wall bracket W 27, 15°, for pole-mounting fitting Ø 42 mm, hot-dip galvanized
2 2480 092 000	2 pcs. ceiling mounting bracket D 92 with screws and polyamide washer, stainless steel
NOR 000 005 009 162	1 pcs. ceiling mounting bracket A5 with screws and polyamide washer, hot-dip galvanized
2 2480 550 011	2 pcs. C-bracket for luminaire mounting LAB-C50 - ER, stainless steel
2 2480 054 000	2 pcs. hexagon screw M8 x 20 for luminaire mounting, with polyamide washer
2 2480 002 000 *	2 pcs. eye bolt M8 for luminaire mounting, hot-dip galvanized
NOR 000 005 009 261	1 pcs. eye bolt M8 - A1 for luminaire mounting, hot-dip galvanized
22480600001	Pole mounting adapter - 42-49mm diameter
22480600002	Pole mounting adapter - 52-62mm diameter



* Also available in stainless steel. Consult factory for ordering code.

Metallic Cable Glands (Order Separately)

ADE-1F2

Catalog #	Metric Thread Size	Cable Types	Cable sealing range - Min	Cable sealing range - Max
ADE1M200NPN	M20	Non-armoured, Marine shipboard, Type P, Tray cable (armoured)	2.8	5.5
ADE1M201NPN	M20		4.5	8.5
ADE1M202NPN	M20		7.0	12.0
ADE1M203NPN	M20		10.0	16.0



ADE-4F

Catalog #	Metric Thread Size	Cable Types	Cable sealing range inner sheath		Cable sealing range outer sheath		Armor	
			Min.	Max.	Min.	Max.	Min.	Max.
ADE4M200NPN	M20	SWA, SWB, STA, Braided marine shipboard, Type P; Lead sheathed cable (with addition of earthing washer)	2.8	5.5	4.5	8.5	0.2	0.9
ADE4M201NPN	M20		4.5	8.0	7.0	12.0	0.2	0.9
ADE4M202NPN	M20		7.0	12.0	10.0	16.0	0.2	1.3
ADE4M203NPN	M20		10.0	15.5	13.5	21.0	0.2	1.3



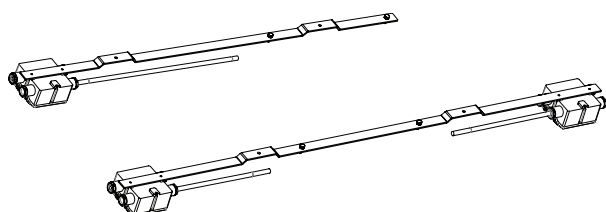
ADE-1F2 and ADE-4F catalog numbers are for nickel-plated brass; For other material options, refer to our cable glands section within www.crouse-hinds.de/en/

Adapter Kits for eLLK Retrofits (Order Separately)

CEAG ExLin LED fixtures are designed with the same fixing point as Crouse-Hinds series CEAG eLLK 2x18W fixtures, making retrofits simple and cost-effective.

Adapter kits allow for easy replacement of 2x36W and 2x58W eLLK fixtures without changing already-installed cables or mounting brackets. Adapter kits include a metal bar, junction box and connection cables between the junction box and ExLin fixture.

Ordering Code	Description
2 2300 500 001	2 pcs. ExLin adapter kit for retrofitting to eLLK 2x36W fixture - includes metal bar, junction box, plastic glands and connection cable between box and fixture*
2 2300 500 002	1 pcs. ExLin adapter kit for retrofitting to eLLK 2x58W fixture - includes metal bar, two junction boxes, plastic glands and connection cable between boxes and fixture*



*Metal bar available also as stand alone, for easy replacement without additional drilling. Consult Customer Service for availability.

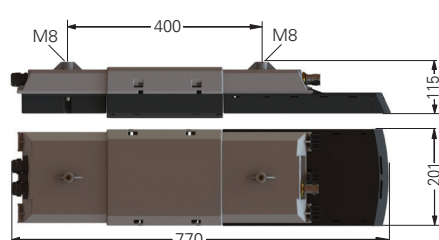
See for yourself how easy it is to upgrade your eLLK lighting installation to our state-of-the-art ExLin LED solution!



Visit eaton.com/ellk-to-exlin to watch the fast and simple retrofit process using our adapter kit

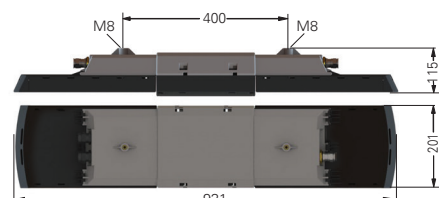
Dimensions and Weights:

CEAG ExLin 3L-1 and 5L-1:



Weight: 6.7 kg

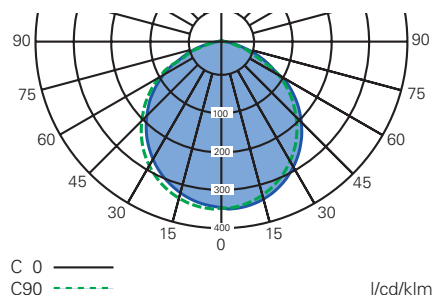
CEAG ExLin 5L and 7L-2:



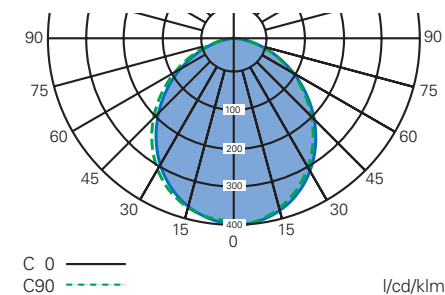
Weight: 8.0 kg

Polar Curves:

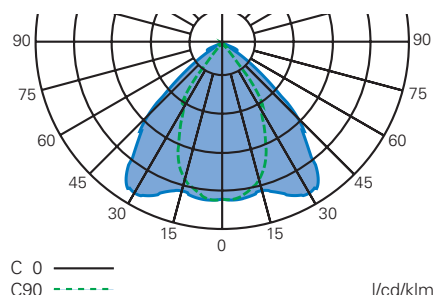
CEAG ExLin standard beam with clear cover



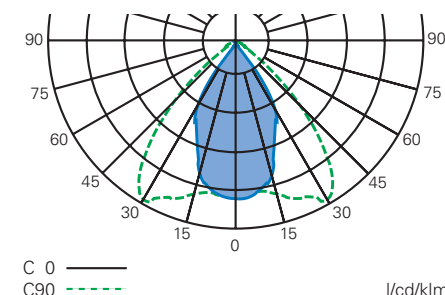
CEAG ExLin standard beam with frosted cover



CEAG ExLin wide beam



CEAG ExLin narrow beam



Eaton's Crouse-Hinds Division

The safety you rely on.

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Powering Business Worldwide

Explosion protected distributions



GHG 6277 E-Series MCCB 63 - 160 A

Ex-d built-in components for Zone 1 and 2 (IEC)



EATON

Powering Business Worldwide

New MCCB type GHG 6277

from 63 A up to 160 A- 3-pole & 4-pole MCCB for Ex-Zone 1 and 2

New Molded Case Circuit Breaker (MCCB) for more reliability

Eaton's Crouse-Hinds GHG 6277 tamper-proof encapsulated breakers provide maximum safety for your facility and feature the proven reliability of Eaton MCCBs.

Application:

Provide overcurrent and short circuit protection for low voltage power, lighting, and heat tracing applications in hazardous locations, such as refineries, chemical and petrochemical plants, mining, food processing, corrosive, and industrial processing facilities.

Encapsulated MCCBs are available certified to IEC standards, making them a global solution ideal for use as power circuit breakers and distribution board mains.

Cost savings

With the introduction of Eaton's Crouse-Hinds Ex-d MCCBs up to 160 A it becomes easier and cost-effective to realise a power distribution board for hazardous environment.

Conventionally an Ex-d enclosure with a minimum volume of 20 litres (e.g. GHG 64 -size 4 or 5) has to be selected to built in an industrial MCCB and add Ex-d cable bushings for wiring. To actuate the MCCB an Ex-d handle must be installed too.

Using the new GHG6277 series in a standard Ex e enclosure (GHG 619) with an external operating handle, the Ex d aluminum enclosure can be eliminated from the panel.

By combining with other

GHG62 encapsulated components (MCBs, RCDs, & contactors) among with the GHG 758 Ex e busbar system, Eaton's Crouse-Hinds division can offer complete distribution panels for motor or power circuits, all without a need for expensive Ex-d enclosures.

This concept saves money and time for installation and maintenance.



Features

- Protection against electrical overload. Provides upstream protection for elevated electrical currents occurring outside of normal operation
- Protection against electrical faults. Immediately interrupts damaging high currents which occur during a line fault or short circuit
- Function as a switch-disconnector. Rated with AC3 switching capacity for making & breaking of electrical loads

Test button

push-to-trip mechanism for manual trip and testing of the breaker operation

Adjustable settings

allows to adjust/set the trip setting down to the next available amperage (i.e. 160 A down to 125 A). (IEC version only)

Wire connecting terminals

Allows for single conductor up to 185 mm²

Engineered air gap

Aids in temperature reduction and improves air flow

Heat dissipation ribs

Enlarged surface area for better cooling of the integrated components

IP20

touch safe (IP20) operating controls

Tamper-proof friction welded design

Maximum security to eliminate risk of flame path damage and prevent safety critical changes to the MCCB during maintenance

Mounting feet

Easy access for mounting/removing breakers

GHG6277 X YY R0 A B C

Type key for MCCB

Type	Configuration X	Accessories YY	Version	# of poles	Short Circuit Capacity	Rated Current IEC
GHG6277 encapsulated MCCB	0 = MCCB only 1 = MCCB + 1NO 2 = MCCB + 1NC 3 = MCCB + trip indicator 1NO 4 = MCCB + 1NO/1NC 5 = MCCB + 2NO 6 = MCCB + 2NC 7 = MCCB + 2NO + trip indicator 1NO 8 = MCCB + 2NC + trip indicator 1NO 9 = MCCB + 1NO + 1NC + trip indicator 1NO	00 = MCCB only 01 = shunt trip 24V AC/DC + early make 1NO 02 = shunt trip 110V-130V AC/DC + early make 1NO 03 = shunt trip 208V-250V AC/DC + early make 1NO 04 = shunt trip 380V-440VAC/DC + early make 1NO 05 = uv release 24V 50/60Hz + early make 1NO 06 = uv release 110V-130V 50/60Hz + early make 1NO 07 = uv release 208V-240V 50/60Hz + early make 1NO 08 = uv release 380V-440V 50/60Hz + early make 1NO 09 = uv release 480V-525V 50/60Hz + early make 1NO 10 = shunt trip 24V AC/DC 11 = shunt trip 110V-130V AC/DC 12 = shunt trip 208V-250V AC/DC 13 = shunt trip 380V-440VAC/DC 14 = uv release 24V 50/60Hz 15 = uv release 110V-130V 50/60Hz 16 = uv release 208V-240V 50/60Hz 17 = uv release 380V-440V 50/60Hz 18 = uv release 480V-525V 50/60Hz 19 = early make aux switch 2NO	R0 = E-series version (standard)	1 = 3pole IEC 2 = 4pole IEC	3 = IEC 10kA @400V	2 = 63 A 3 = 80 A 4 = 100 A 5 = 125 A 6 = 160 A

NOTE: all combinations of „Configuration“ and „Accessories“ are possible

GHG 6277 Molded Case Circuit Breaker (MCCB) E-series



GHG 6277

Technical data E-series IEC

MCCB 63 A up to 160 A		
Marking accd. to 2014/34/EU	II 2 G Ex de IIB/IIC Gb	
EC-Type Examination Certificate	BVS 09 ATEX E 145 U	
Marking accd. to IECEx	Ex de IIB/IIC Gb	
IECEx Certificate of Conformity	IECEx BVS 10.0002 U	
Functional temperature	-20 °C up to +70 °C	
Application temperature ¹⁾	-20 °C up to +55 °C (IIC / IIB based on GHG 619)	
Limits of service temperature	-20 °C up to +110 °C (IIC / IIB)	
Storage temperature	-20 °C up to +55 °C in original packing	
Built-in position	Vertical and rotated 90 deg in all directions	
Release system	thermomagnetic release	
Safe Isolation to EN 61140	between aux contacts and main contacts	500 VAC
	between aux contacts	300 VAC
Rated impulse withstand voltage	main contacts	8000 V
	auxiliary contacts	6000 V
Rated operating voltage U_e	400 V	
Rated switching capacity I_{cu}	400/415V (50/60Hz) kA/cos φ	10 kA/0.25
Rated current I_n	main contact	63 A, 80 A, 100 A, 125 A or 160 A
	aux. contact	max. 5 A
Adjustable setting range I_r	0.8 to 1.0 x rated current I_n	
Short current protection	$I_t = 6 \times I_n$	
Utilization category to IEC/EN 60947-2	A	
Making/breaking capacity at rated current up to 400 V	AC1 & AC3	
Connecting terminals main contact	1 x 4.0 mm ² up to 1 x 185 mm ²	
Rated voltage aux. contact	max. 500 V AC	
Rated current aux contact	AC15 le (up to 230 V) / DC13 le (up to 24 V)	4 A / 3 A
	AC15 le (up to 400 V) / DC13 le (up to 60 V)	2 A / 1.2 A
	AC15 le (up to 500 V) / DC13 le (up to 110 V)	1 A / 0.8 A
	DC13 le (up to 220 V)	0.3 A
Connecting terminals aux./signal contact	1.0 mm ² up to 4.0 mm ² fine stranded	
Total opening delay on short circuit	< 10 ms	
Weight	10.5 kg - 4-pole / 10 kg - 3 pole	
Enclosure material	Polyamide	
Component degree of protection accd. EN 60529	IP20	

¹⁾ The limits of the operating temperature range and the max. permissible temperature rise of the components (functional temperature) have to be taken into account (see also page 2.6.11 of Master catalogue).



GHG 6277

Order Code Molded Case Circuit Breaker (MCCB) E-series 10 kA IEC Version:

GHG 6277 W XX R0 Y 3 Z

Configuration	(W)
MCCB only	0
MCCB + 1NO	1
MCCB + 1NC	2
MCCB + trip indicator 1NO	3
MCCB + 1NO/1NC	4
MCCB + 2NO	5
MCCB + 2NC	6
MCCB + 2NO + trip indicator 1NO	7
MCCB + 2NC + trip indicator 1NO	8
MCCB + 1NO + 1NC + trip indicator 1NO	9

Accessories	(XX)
shunt trip 24V AC/DC + early make 1NO	01
shunt trip 110V-130V AC/DC + early make 1NO	02
shunt trip 208V-250V AC/DC + early make 1NO	03
shunt trip 380V-440VAC/DC + early make 1NO	04
uv release 24V 50/60Hz + early make 1NO	05
uv release 110V-130V 50/60Hz + early make 1NO	06
uv release 208V-240V 50/60Hz + early make 1NO	07
uv release 380V-440V 50/60Hz + early make 1NO	08
uv release 480V-525V 50/60Hz + early make 1NO	09
shunt trip 24V AC/DC	10
shunt trip 110V-130V AC/DC	11
shunt trip 208V-250V AC/DC	12
shunt trip 380V-440VAC/DC	13
uv release 24V 50/60Hz	14
uv release 110V-130V 50/60Hz	15
uv release 208V-240V 50/60Hz	16
uv release 380V-440V 50/60Hz	17
uv release 480V-525V 50/60Hz	18
early make aux. switch 2NO	19

# of Poles	(Y)	Rated Current (Z)
3 pole	1	63 A 2
4 pole	2	80 A 3
		100 A 4
		125 A 5
		160 A 6

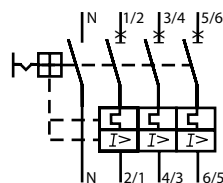
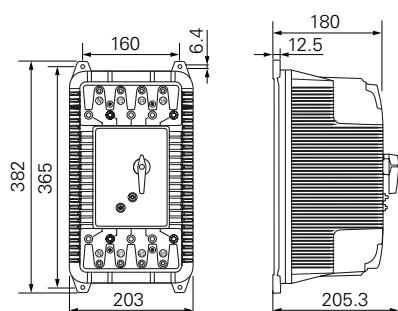
Power Loss at In (IEC-E-series)

In [A]	P [W]
63 A	20.2
80 A	20.5
100 A	25.7
125 A	27.6
160 A	38.4

Example: MCCB + 2NO, shunt trip 208V-250V AC/DC + early make 1NO, 4 poles, rated current 100 A

GHG 6277 5 03 R0 2 3 4

Dimension drawing /connection diagram





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Powering Business Worldwide

Linear LED Light Fixtures
for IEC applications

CROUSE-HINDS
SERIES

Linear LED Solutions

For IEC Zone 1, 2, 21, and 22
harsh and hazardous environments



EAT•N

Powering Business Worldwide



Linear LED solutions for
IEC Zone 1, 2, 21 and 22 areas

Safe. Reliable. Efficient

Featuring the industry's broadest range of LED luminaires for hazardous, harsh and industrial areas, **Eaton's Crouse-Hinds Division** understands the challenging applications and environments faced in your industry.

We deliver lighting solutions that perform safely and reliably in even the worst operating conditions. All the while reducing your energy, maintenance and manpower costs.

No matter the challenge, we have lighting solutions designed to meet your needs



Zone 1 and 2 locations

Fixtures certified for use in locations in which flammable gases or vapors may be present.



Zone 21 and 22 locations

Fixtures certified for areas that are hazardous because of the presence of combustible dust.



Adverse and corrosive environments

Fixtures designed for reliable performance in harsh areas prone to water, salt, dust, dirt, grime, vibration, and hard use.



High ambient temperature areas

Fixtures tested and listed for +50°C ambients. Advanced engineered heat sinking for effective thermal management ensures performance and longer life.



Extreme cold and ice conditions

Fixtures tested and listed to reliably start and operate at normal light output levels in -40°C ambients.



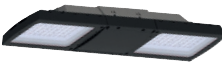
Power outages and emergency situations

Optional batteries provide instant illumination in the event of an emergency. Batteries can work independently or part of a centralized system.

Crouse-Hinds series linear LED selection guide

Find out which solution is right for you

Quick selection guide

Product Family	Lumen outputs	 Zone 1		 Zone 2		 Harsh & Corrosive	 Emergency Battery	 Extreme ambient [†]	Design
		Zone 1	Zone 2	Zone 21	Zone 22				
CEAG ExLin LED 	2750	✓	✓	COMING SOON		✓	COMING SOON	 +55°C  -40°C	Nonmetallic Low profile Custom optics
	5300								
	8120								
CEAG eLLK LED 	2700	✓	✓	✓	✓	✓	✓	 +55°C	Nonmetallic
	5350								
HLL LED 	2800	✓	✓	✓	✓	✓	✓	 +55°C  -40°C	Metallic
	5800								
CEAG nLLK15 LED 	1845		✓		✓	✓	✓	 +50°C	Nonmetallic
	3800								
	5200								
nHLL LED 	3000		✓		✓	✓	✓	 +55°C  -40°C	Metallic
	4000								
	5000								
	8000								
CEAG LLK98 LED 						✓			Nonmetallic
CEAG LLK15 LED 						✓	✓	 +55°C  -40°C	Nonmetallic
PLLE LED 	3000					✓	✓	 +55°C  -40°C	Metallic
	4000								
	5000								
	8000								

[†] Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

CEAG™ ExLin LED linear light fixtures

PRIMARY APPLICATIONS

Approved for use in Zone 1 and 2 hazardous areas, ExLin provides longer life, improved efficiency and superior performance with a competitive payback versus fluorescent fixtures. Designed to provide general illumination where moisture, dust, corrosion, and extreme temperature exist

LUMINAIRE MODELS

Model number	Equivalent fluorescent luminaire	Typical energy savings/lifetime
ExLin 3L-1	2 x 18W	Up to 40% reduction in energy costs and a rated life of 100,000 hours at 25°C
ExLin 5L-1	2 x 36W	
ExLin 7L-2	2 x 58W	

CERTIFICATIONS & COMPLIANCES

- Ex II 2 G Ex eb ib op is q IIC T4 Gb
- Ex eb ib op is q IIC T4 Gb
- IECEx-Certification of Conformity: IECEx BVS 18.0028X
- EC-Type Examination Certificate: BVS 18 ATEX E 037 X
- IP66, IP67

ELECTRICAL RATINGS

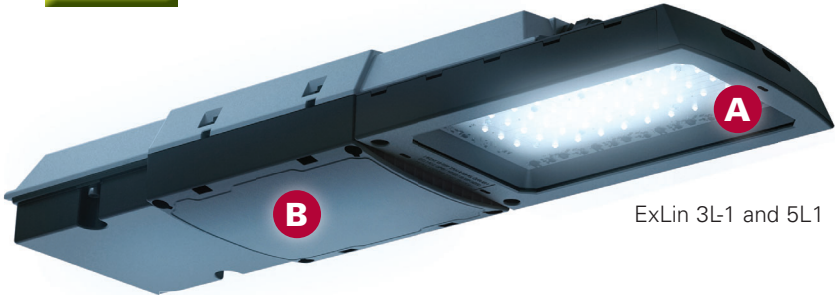
- Voltages: 110-277 VAC/DC
- Input power: 22W, 44W, 67W

OPTIONS AND ACCESSORIES

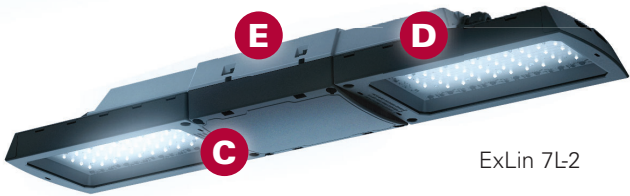
- Clear or diffused lens
- Standard, narrow, and wide beam options



NEW!



ExLin 3L-1 and 5L1



ExLin 7L-2

State-of-the-art LED technology with optimised thermal management and a time-tested, field-proven enclosure

DESIGN FEATURES

- A Superior performance and efficiency** - Up to 120 LM/W provides up to 40% energy efficiency compared to traditional fluorescent fixtures
- B Built to last** - Rated life of 100,000 hours at 25°C based on L90C5 provides long term, low-maintenance operation
- C Optimized light distribution** - Standard, narrow and wide beam optics optimize light distribution, providing light where the customer needs it with the potential to reduce the number of fixtures required
- D Low profile and lightweight** - Decreases footprint in confined applications and reduces installation effort
- E Drop-in mounting capability to eLLK Fluorescent** - Same fixing point as eLLK 2x18W fixtures and a mounting kit is available allowing for easy replacement of 2x36W and 2x58W without changing cables

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.



Hazardous area

Zone 1/21
Zone 2/22

CEAG™ eLLK LED linear light fixtures

PRIMARY APPLICATIONS

Designed for use in Zone 1, 2, 21 and 22 outdoor and indoor hazardous and non-hazardous areas where moisture or corrosion may be a problem, such as offshore oil platforms, pharmaceutical plants, oil refineries and industrial locations.

LUMINAIRE MODELS

Model number	Equivalent luminaire	Battery	Typical energy savings/lifetime
eLLK LED 400A	2x18W fluorescent	No	Up to 20% reduction in energy costs and 60,000 hours of continuous operation!
eLLK LED 800A	2x36W fluorescent	No	
eLLK LED 400A NE	2x18W fluorescent	Yes	
eLLK LED 800A NE	2x36W fluorescent	Yes	

CERTIFICATIONS & COMPLIANCES

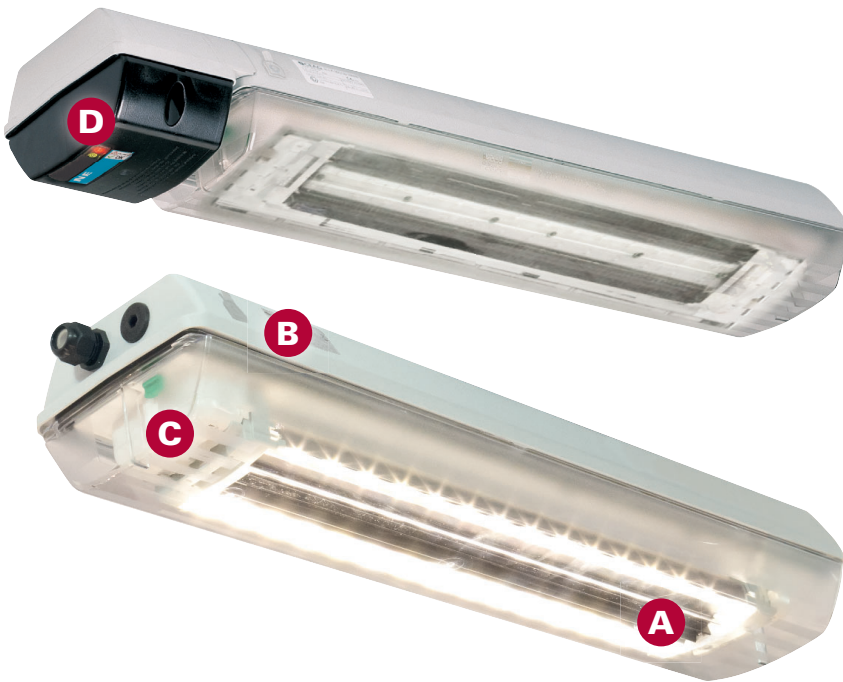
- Ex II 2G Ex de mb IIC T4 Gb
- Ex II 2D Ex tb IIIC T80 °C Db IP66
- BVS 09 ATEX E 034
- Ex de mb IIC T4 Gb/Ex tb IIIC T80 °C
- IECEx BVS 09.0033

ELECTRICAL RATINGS

- Voltages: 110-254 VAC, 110-250 VDC; 50/60 Hz
- Input power: 2x13W, 2x26W

OPTIONS AND ACCESSORIES

- LED module 400A (2x13W) for eLLK/M 92 018/18
- LED module 800A (2x26W) for eLLK/M 92 036/36
- Self contained battery system (NE models)
- Available with V-CG-S module for monitoring with an Eaton central battery system



Saves on energy consumption and easily retrofit existing luminaires in hazardous and corrosive environments

DESIGN FEATURES

- A High output** - Illuminance (lux/Fc) equivalent to related fluorescent tubes at measurement plane.
- B Non-metallic design** - Fiberglass-reinforced polyester construction for extreme durability.
- C Retrofit friendly** - Retrofits to existing eLLK/nLLK fixtures with existing EVG 09 ballast or as a complete unit.
- D Emergency** - eLLK NE models include a 7 Ah-NC battery with LED display and monitoring via microprocessor. Provides 1.5 or 3 hours of emergency lighting.

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

HLL LED

linear light fixtures

PRIMARY APPLICATIONS

Constructed with an aluminum housing and high impact-resistant polycarbonate cover, providing extreme durability and reliability in Zone 1, 2, 21 and 22 hazardous areas. Designed for use in hazardous areas where moisture or corrosion may be a problem, such as offshore oil platforms, pharmaceutical and chemical plants, oil refineries and industrial locations.

LUMINAIRE MODELS

Model number	Equivalent luminaire	Typical energy savings/lifetime
HLL-2-3L	2x18W	Up to 39% reduction in energy costs and 50,000 hours of continuous operation!
HLL-4-5L	2x36W	

CERTIFICATIONS & COMPLIANCES

- Ex db ec IIC T5/T6 Gc
- Ex ec IIC T5/T6 Gc
- Ex db ec ib mb IIC T5/T6 Gc
- Ex ec ib mb IIC T5/T6 Gc
- Ex tb IIIC T80°C Db
- IECEx-certification of conformity: IECEx CQM 16.0030X
- EC-Type examination certificate: CML 17ATEX3305X
- IP66

ELECTRICAL RATINGS

- Voltages: 100-240 VAC, 108-250 VDC
- Input power: 30W, 40W, 60W, 80W

OPTIONS AND ACCESSORIES

- Epoxy coating on aluminum housing
- Emergency battery back-up
- Pipe, wall, and ceiling mounts available



Saves on energy consumption and easily retrofit existing luminaires in hazardous and corrosive environments

DESIGN FEATURES

- A Rugged design** - Copper-free aluminum housing and impact-resistant polycarbonate lens provide excellent resistance to corrosion and heat
- B Easy installation** - Lightweight design, hinged cover, and a terminal block wing for easy installation and maintenance
- C Industry leading thermal management** - For safe and reliable operation over a wide temperature range
- D Retrofit friendly** - Fixture utilizes the same mounting footprint of linear fluorescent lighting

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.



CEAG™ nLLK15 LED linear light fixtures

PRIMARY APPLICATIONS

Long-life LED tubes provide general illumination, indoors or out, in Zone 2 and 22 hazardous environments around the globe. Heavy duty, non-metallic construction stands up to tough physical and environmental demands, making it an excellent choice where dust, dirt, gas, vapor, smoke, fumes, moisture, corrosive and wet conditions are present.

LUMINAIRE MODELS

Model number	Equivalent fluorescent luminaire	Typical energy savings/lifetime
nLLK15 LED 600	2 x 18W	Up to 77% more efficient than standard LED light fixtures!
nLLK15 LED 1200	2 x 36W	
nLLK15 LED 1500	2 x 58W	

CERTIFICATIONS & COMPLIANCES

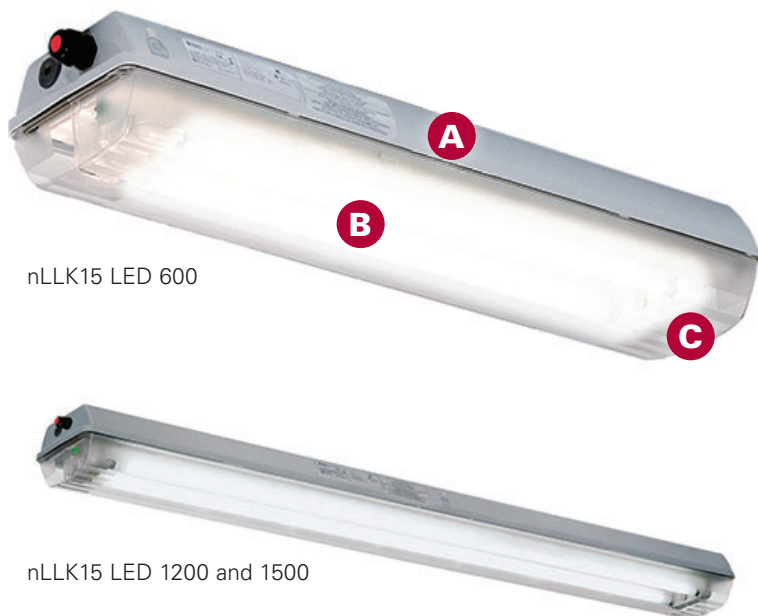
- Ex II 3 G Ex ec IIC T4 Gc
- Ex II 3 D Ex tc IIIC T80°C Dc
- EC-Declaration of Conformity: CCH 15 ATEX 1044
- IP66

ELECTRICAL RATINGS

- Voltage: 220-240 VAC/DC
- Input power: 18W, 37W, 49W

OPTIONS AND ACCESSORIES

- Available with safety switch on request
- Self-contained battery version available
- Connection to CEAG emergency light monitoring systems possible (V-CG-S)
- Light controlling via DALI interface (DALI option)



Crisp, bright light and durability in harsh environments provides a long-life solution in Zone 2 and 22 areas

DESIGN FEATURES

- A Built to last** - Heavy duty, non-metallic construction stands up to tough physical and environmental demands, making it an excellent choice where dust, dirt, gas, vapor, smoke, fumes, moisture, corrosive and wet conditions are present.
- B High output** - Utilizes Aura UltiLED LED tubes for extreme applications, providing high efficacy and long life.
- C Emergency** - Available with a self-contained battery system or V-CG-S module for monitoring with an Eaton central battery system.

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

nHLL LED

linear light fixtures

PRIMARY APPLICATIONS

Constructed with an aluminum housing and high impact-resistant polycarbonate cover for use in Zone 2 and 22 hazardous areas where moisture or corrosion may be a problem, such as offshore oil platforms, pharmaceutical and chemical plants, oil refineries and industrial locations.

LUMINAIRE MODELS

Model number	Equivalent luminaire	Typical energy savings/lifetime
NHLL-2-C2-3L	2x18W	Up to 39% reduction in energy costs and 50,000 hours of continuous operation!
NHLL-2-C2-4L	2x36W	
NHLL-4-C2-5L	2x36W	
NHLL-4-C2-8L	2x58W	

CERTIFICATIONS & COMPLIANCES

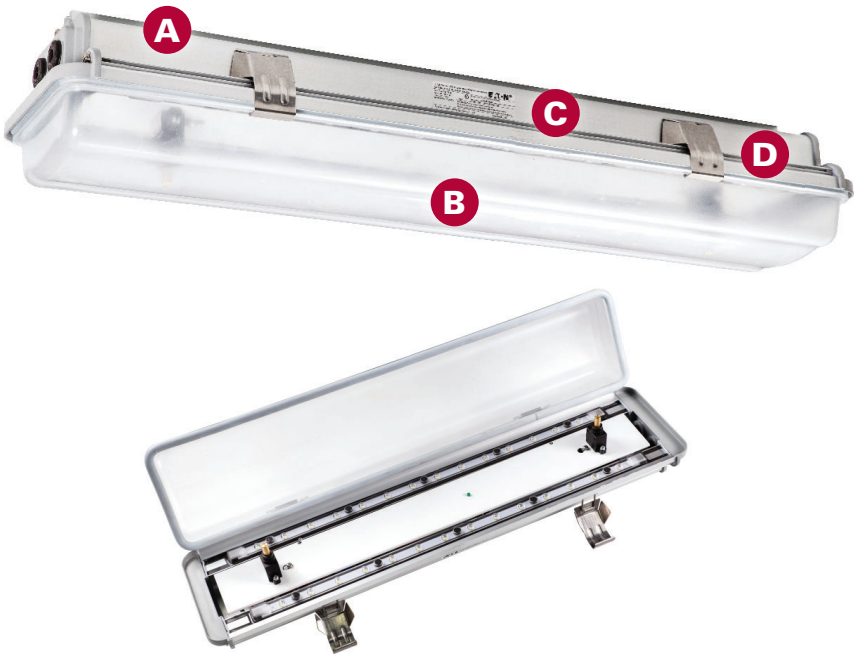
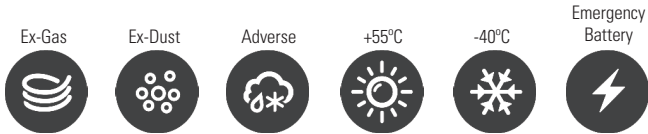
- Ex db ec IIC T5/T6 Gc
- Ex ec IIC T5/T6 Gc
- Ex db ec ib mb IIC T5/T6 Gc
- Ex ec ib mb IIC T5/T6 Gc
- Ex tb IIIC T80°C Db
- IECEx-certification of conformity: IECEx NEP 18.0003X
- EC-Type examination certificate: SEV 18 ATEX 0171X
- IP66

ELECTRICAL RATINGS

- Voltages: 100-240 VAC
- Input power: 30W, 40W, 60W, 80W

OPTIONS AND ACCESSORIES

- Epoxy coating on aluminum housing
- Emergency battery back-up
- Pipe, wall, and ceiling mounts available

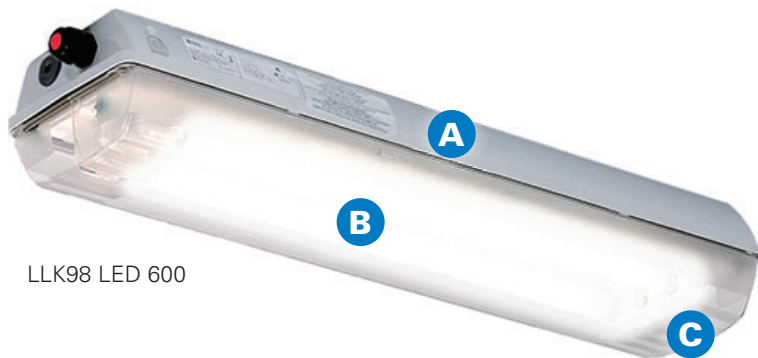


Rugged, low profile fixture that is easy to install and provides clear illumination in Zone 2 and 22 hazardous areas

DESIGN FEATURES

- A Rugged design** - Copper-free aluminum housing and impact-resistant polycarbonate lens provide excellent resistance to corrosion and heat
- B Easy installation** - Lightweight design, hinged cover, and a terminal block wing for easy installation and maintenance
- C Industry leading thermal management** - For safe and reliable operation over a wide temperature range
- D Retrofit friendly** - Fixture utilizes the same mounting footprint of linear fluorescent lighting

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.



LLK98 LED 600



LLK98 LED 1200 and 1500

The latest in LED lighting technology, coupled with the design requirements of harsh and wet environments

DESIGN FEATURES

- A Built to last** - Heavy duty, non-metallic construction stands up to tough physical and environmental demands, making it an excellent choice where dust, dirt, gas, vapor, smoke, fumes, moisture, corrosive and wet conditions are present.
- B High output** - Utilizes long-life LED tubes for extreme applications, providing high efficacy and long life.
- C Emergency** - Available with a self-contained battery system or V-CG-S module for monitoring with an Eaton central battery system.

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

Harsh & heavy industrial

CEAG™ LLK98 LED linear light fixtures

PRIMARY APPLICATIONS

Long-life LED tubes provide general illumination in wet and harsh environments. Heavy duty, non-metallic construction stands up to tough physical and environmental demands, making it an excellent choice where dust, dirt, gas, vapor, smoke, fumes, moisture, corrosive and wet conditions are present.

LUMINAIRE MODELS

Model number	Equivalent fluorescent luminaire	Typical energy savings/lifetime
LLK98 LED 600	2 x 18W	Up to 60% more efficient than fluorescent light fixtures
LLK98 LED 1200	2 x 36W	
LLK98 LED 1500	2 x 58W	

CERTIFICATIONS & COMPLIANCES

- Text
- IP66
- Operating temperature range -20°C to +40°C

ELECTRICAL RATINGS

- Voltage: 220-240 VAC
- Input power: 18W, 37W, 49W

OPTIONS AND ACCESSORIES

- Wall mount brackets, ceiling mount brackets and pipe clamps

CEAG™ LLK15 LED linear light fixtures

PRIMARY APPLICATIONS

Crisp, bright light and durability in wet and harsh environments. Wide ambient temperature range from -40° to +55°C. Heavy duty, non-metallic construction stands up to dust, dirt, gas, vapor, smoke, fumes, moisture, corrosive and wet conditions are present.

LUMINAIRE MODELS

Model number	Equivalent fluorescent luminaire	Typical energy savings/lifetime
LLK15 LED 600	2 x 18W	Up to 60% more efficient than fluorescent light fixtures
LLK15 LED 1200	2 x 36W	
LLK15 LED 1500	2 x 58W	

CERTIFICATIONS & COMPLIANCES

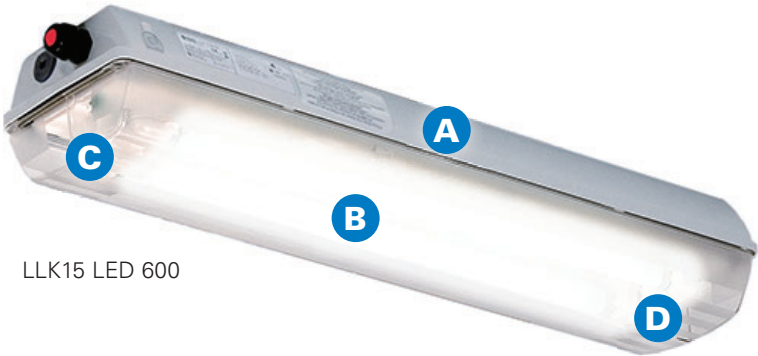
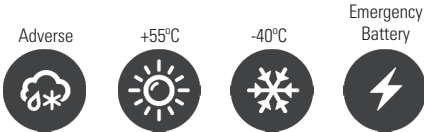
- Text
- IP66
- Operating temperature range -40°C to +55°C

ELECTRICAL RATINGS

- Voltage: 220-240 VAC
- Input power: 18W, 37W, 49W

OPTIONS AND ACCESSORIES

- Available with safety switch on request
- Wall mount brackets, ceiling mount brackets and pipe clamps



LLK15 LED 600



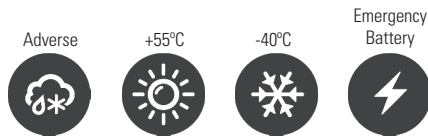
LLK15 LED 1200 and 1500

A rugged and durable LED fixture designed reliable performance in extreme ambient temperatures

DESIGN FEATURES

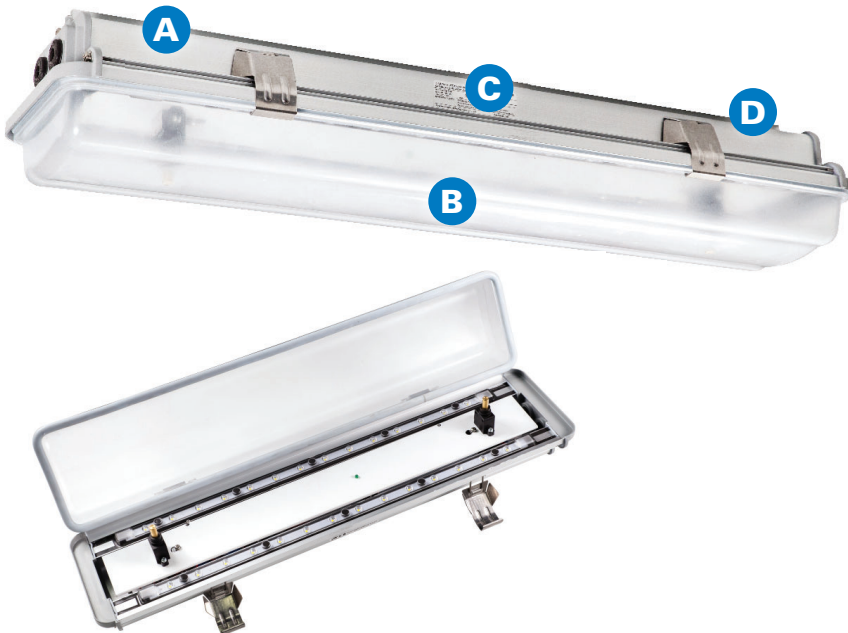
- A Built to last** - Heavy duty, non-metallic construction stands up to tough physical and environmental demands, making it an excellent choice where dust, dirt, gas, vapor, smoke, fumes, moisture, corrosive and wet conditions are present.
- B High output** - Utilizes long-life LED tubes for extreme applications, providing high efficacy and long life.
- C Extreme temperatures** - Rated for use in ambient temperatures from -40°C to +55°C
- D Emergency** - Available with a self-contained battery system or V-CG-S module for monitoring with an Eaton central battery system.

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.



Harsh & heavy industrial

PLLE LED linear light fixtures



Rugged, low profile fixture that is easy to install and provides clear illumination in challenging areas

DESIGN FEATURES

- A Rugged design** - Copper-free aluminum housing and impact-resistant polycarbonate lens provide excellent resistance to corrosion and heat
- B Easy installation** - Lightweight design, hinged cover, and a terminal block wing for easy installation and maintenance
- C Industry leading thermal management** - For safe and reliable operation over a wide temperature range
- D Retrofit friendly** - Fixture utilizes the same mounting footprint of linear fluorescent lighting

PRIMARY APPLICATIONS

Constructed with an aluminum housing and high impact-resistant polycarbonate cover for use in outdoor and indoor industrial areas where moisture or corrosion may be a problem, such as offshore oil platforms, pharmaceutical and chemical plants, oil refineries and industrial locations.

LUMINAIRE MODELS

Model number	Equivalent luminaire	Typical energy savings/lifetime
PLLE-2-C2-3L	2x18W	Up to 39% reduction in energy costs and 60,000 hours of continuous operation!
PLLE-2-C2-4L	2x36W	
PLLE-4-C2-5L	2x36W	
PLLE-4-C2-8L	2x58W	

CERTIFICATIONS & COMPLIANCES

- CE self declared
- IP66

ELECTRICAL RATINGS

- Voltages: 100-240 VAC
- Input power: 30W, 40W, 60W, 80W

OPTIONS AND ACCESSORIES

- Epoxy coating on aluminum housing
- Emergency battery back-up
- Pipe, wall, and ceiling mounts available

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

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Industrial Plugs & Receptacles

Products & solutions
For heavy duty applications



Plug in with IEC 60309

Industrial plugs and receptacles for harsh environments

Eaton's Crouse-Hinds IEC 60309 series plugs and receptacles are designed for use in heavy industrial applications.

IP66 rated and engineered to provide secure, safe and waterproof connections in the toughest conditions.

- Easy to install
- Impact resistant enclosure
- Low engagement force
- IP66 compliant when plugged in
- Self-cleaning lamellar contacts
- Low transition resistance



Overview



Plugs, connectors, receptacles and inlets

Applications:

- Where complete protection against dirt, dust and water jets
- In damp or corrosive atmospheres
- In areas prone to vibration, hard use, and abuse
- In environments that demand safety, ease of use, reliability, and durability
- Ideal for heavy duty industrial applications, such as: shipyards, military, marine/marina environments, pulp and paper, heavy manufacturing, wastewater treatment, portable power

Features:

- Voltage, configured, color coded
- Watertight
- Impact- and corrosion-resistant
- Receptacles mount to Eaton's Crouse-Hinds back boxes
- Innovative finger lock keeps cord grip secured
- Positive grommet seal system at cord entry
- Funneled wire pockets
- Lockout/tagout
- High grade nickel-plated brass pins
- V0 insulating material
- Multi-lam sleeve bands, nickel plated beryllium copper

Certifications and compliances:

- IEC60309-1 and IEC60309-2
- IEC IP66

20 Amp & 30 Amp

- Certified to CSA C22.2 No. 182.1, and UL1682

60 Amp & 100 Amp

- Complies with CSA C22.2 No. 182.1, and UL1682

Standard materials:

- Enclosure - glass reinforced polyamide (GRP)
- External hardware - stainless steel
- Contacts - nickel plated brass lamella contacts and compression lugs
- Contact carrier - glass fiber reinforced nylon PA66



Mechanical interlocks

Applications:

- To supply power to portable or fixed electrical equipment, such as welders, motor generator sets, compressors, conveyors, portable tools, lighting systems, and similar equipment
- In damp or corrosive atmospheres
- In wet locations
- In hose down areas

Features:

- Mechanically interlocked, dead-front receptacle - plug cannot be engaged or disengaged under load
- Enclosure has continuous form-in-place gasket
- Meets OSHA's lockout/tagout requirements - can be padlocked in "OFF" position
- Industrial switch is horsepower rated for motor load applications

Certifications and compliances:

- IEC60309-1 and IEC60309-2
- UL Standards: 508, 1682
- CSA Standard: C22.2 Nos. 14, 182.1
- IP66

Standard materials:

- Enclosure - glass reinforced polyamide (GRP)
- External Hardware - stainless steel
- Contacts - brass, nickel plated beryllium copper
- Contact Carrier - glass fiber reinforced nylon PA66

Features & benefits

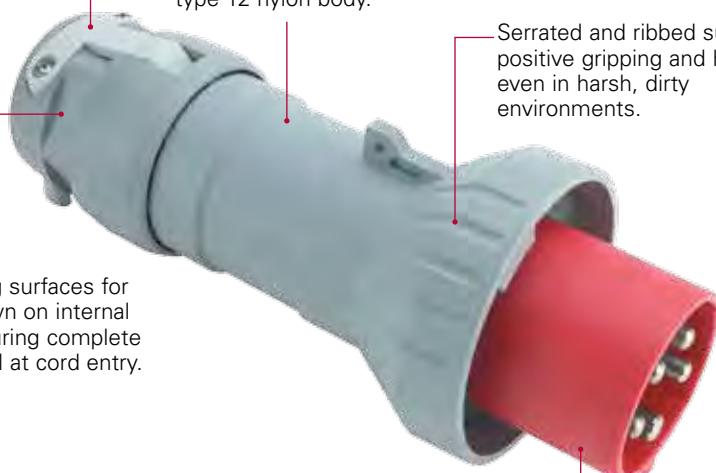
Mechanical cord clamp with innovative locking finger ensures a positive strain relief system.

Impact and corrosion-resistant type 12 nylon body.

Serrated and ribbed surfaces for positive gripping and handling even in harsh, dirty environments.

Flat wrenching surfaces for tightening down on internal brushing, ensuring complete watertight seal at cord entry.

Color-coded front housing for easy and accurate identification of mating devices of same voltage.



Nickel-plated brass contacts offer long-life corrosion protection. Compression lugs provide reliable mechanical wire termination.



Funneled wiring pockets for ease of inserting stranded wire. Deep pocket marked X, Y and Z keep bare conductors safely confined and isolated from adjacent wires.

Flange socket

Color coded cap accurately identifies mating plug of correct voltage.

Lockout/tagout hole for OFF position.

Watertight cap meets NEMA 4X, IP66 hose down standards.

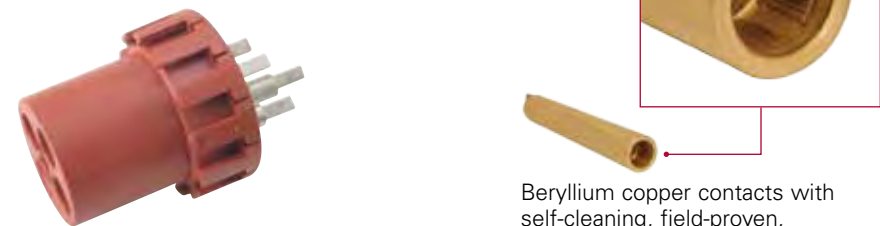
Standard mounting footprint fits all existing Eaton's Crouse-Hinds back boxes.



Locking finger seats into web pockets when cord grip is tightened down, securing back cap in place even under heavy usage and vibration.

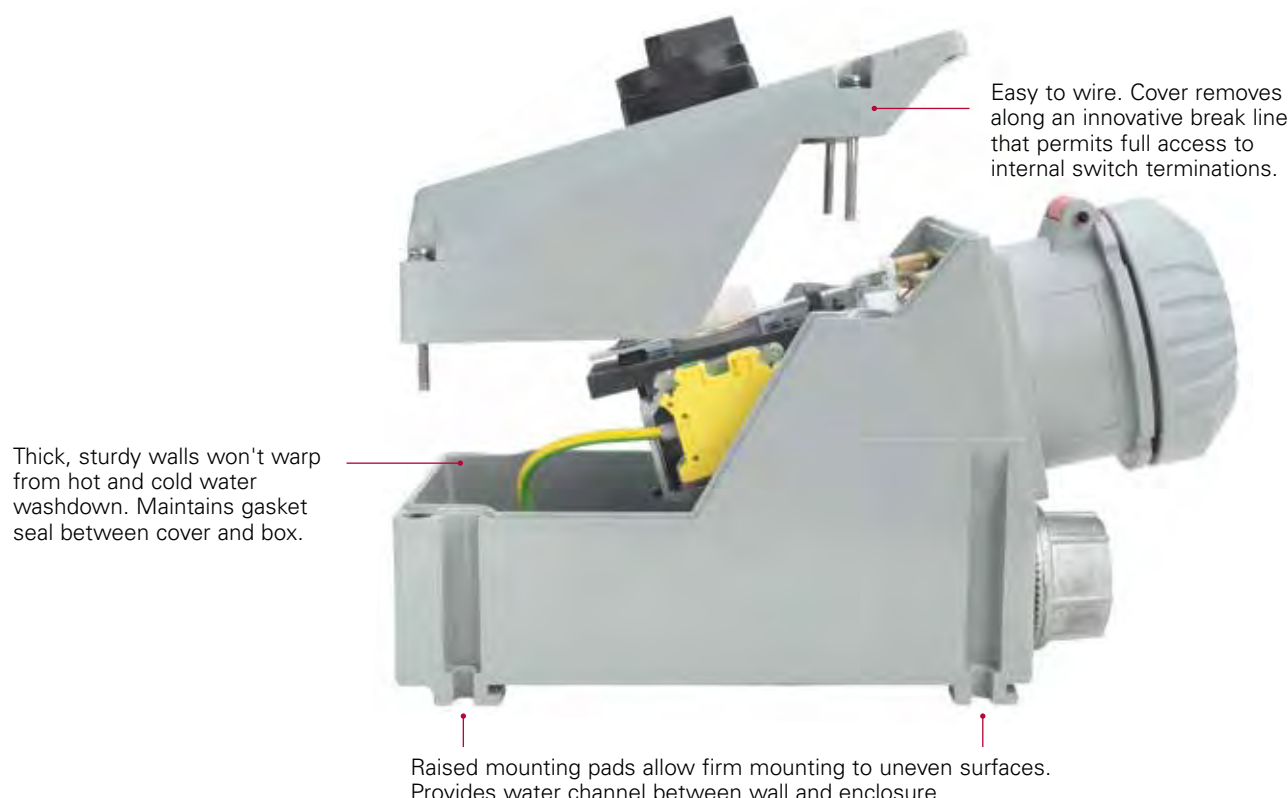
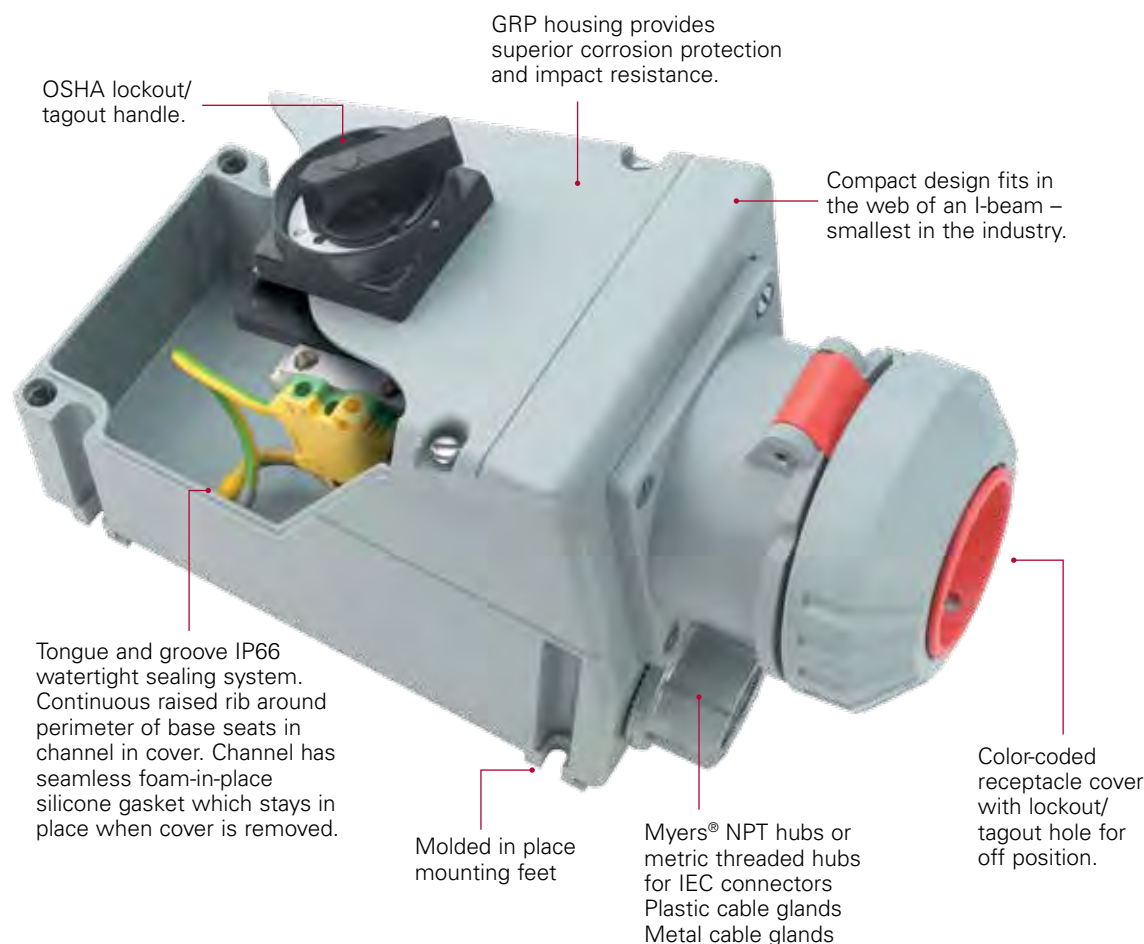
Impact-resistant thermoplastic contact carrier provides superior electrical insulation and V flammability rating.

Beryllium copper contacts with self-cleaning, field-proven, multi-lam pressure bands for smooth pin insertion, low heat rise and quality electrical performance.



Funneled wire termination pockets have all screw heads on the same side for easy conductor insertion and quick wiring.

Wall socket with mechanical interlock switch



Ordering information for IEC products

Part number description

Eaton's Crouse-Hinds industrial series

GHG52

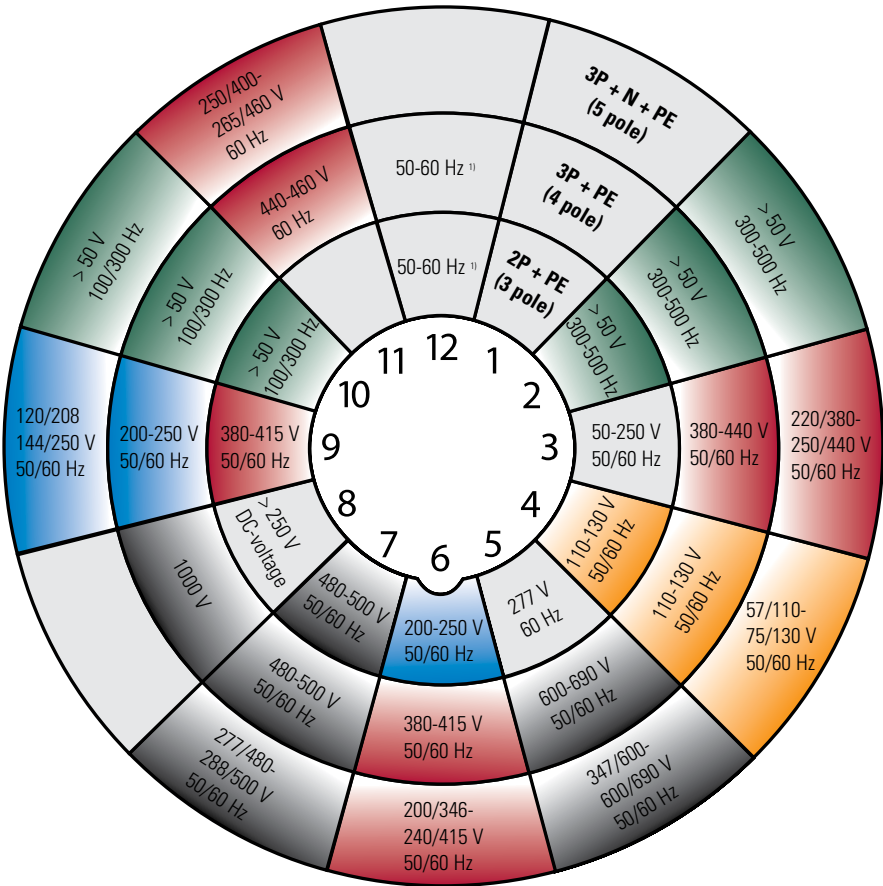
R

Prefix	Version	Design	Poles	Voltage	IEC / NEC	Type of enclosure
Eaton's Crouse-Hinds Heavy duty industrial	1 20/16 A	3 Coupler	3 3-pole (2+N+PE)	Clock Setting 01 - 12	R IEC Version	0 Moulded Plastic
	2 30/32 A	4 Wall Socket	4 4-pole (3+PE)		L NEC Version	1 Stainless Steel
	4 60/63 A	7 Plug	5 5-pole (3+N+PE)			3 Internal Earth Plate
	5 100/125 A	8 Flange Socket				5 with Aux Contact
		9 Inlet				

Serial number

Clocking position

A clock face is used to represent the grounding contact position for all female connectors and receptacles. With the keyway at the bottom, the female ground contact will appear to one of the twelve hour positions. To identify the system voltage, identify the housing color and hour location of the connector or receptacle grounding contact.



Clocking position

1	standard ground
2	> 50 V 300-500 Hz: 3 pole < 50 V 300-500 Hz: 4 pole < 50 V 300-500 Hz: 4 pole
3	< 50-250 V: 3 pole 380-440 V 50/60Hz: 4 pole 220/380-250/440 V 50/60Hz: 5 pole
4	110-130 V 50/60Hz: 3 pole 110-130 V 50/60Hz: 4 pole 57/110-75/130 V 50/60Hz: 5 pole
5	277 V 60Hz: 3 pole 600-690 V 50/60Hz: 4 pole 347/600-600/690 V 50/60Hz: 5 pole
6	200-250 V 50/60 Hz: 3 pole 380-415 V 50/60 Hz: 4 pole 200/346-240/415 V 50/60 Hz: 5 pole
7	480-500 V 50/60 Hz: 3 pole 480-500 V 50/60 Hz: 4 pole 277/480-288/500 V 50/60 Hz: 5 pole
8	> 250 V DC-voltage
9	380-415 V 50/60Hz: 3 pole 200-250 V 50/60Hz: 4 pole 120/208-144/250 V 50/60Hz: 5 pole
10	> 50 V 100-300 Hz: 4 pole
11	440-460 V 60 Hz: 4 pole 250/400-265/460 V 60 Hz: 5 pole
12	50-60 Hz: 3 pole ¹⁾ 50-60 Hz: 4 pole ¹⁾

¹⁾ Output of an isolation transformer with more than 50 V

Technical data

Plugs and receptacles - Industrial use

acc. to IEC 60309- 1/2 up to 690 V

Permissible ambient temperature	-40 °C up to +55 °C
Rated voltage	690 V~
Rated current	125 A
Frequency	50/60 Hz
External back-up fuse, max.	without therm. protection: 16 A / 32 A / 63 A / 125 A
Protection class	I
Degree of protection acc. to EN 60529	IP66

	Wallsocket with interlock switch	Wallsocket without switch	Plug	Coupler	Flange Socket / Inlet
16 A					
Rated current	16 A	16 A	16 A	16 A	16 A
Cable entry	1 x M25 Ø 8 - 17 mm, 1 x M25 thread plug plastic	2 x PG 16 top, 2 x PG 16 bottom	Ø 8 - 19 mm (3-pole) / Ø 8 - 21 mm (4-pole) / 12 - 21 mm (5-pole)	Ø 8 - 19 mm (3-pole) / Ø 8 - 21 mm (4-pole) / 12 - 21 mm (5-pole)	
Connecting terminals	2 x 1.5 – 4 mm ²	2 x 1.5 – 4 mm ²	1 x 1.0 – 2.5 mm ²	2 x 1.5 – 4 mm ²	2 x 1.5 – 4 mm ²
Enclosure material	Glass-fibre reinforced polyester	n/A Polyamide	Polyamide	Polyamide	Polyamide
32 A					
Rated current	32 A	32 A	32 A	32 A	32 A
Cable entry	1 x M40 Ø 17 - 28 mm, 1 x M40 thread plug plastic	2 x PG 21 top, 2 x PG 21 bottom	Ø 17 - 28 mm	Ø 17 - 28 mm	
Connecting terminals	2 x 4 – 10 mm ²	1 x 4 – 10 mm ²	1 x 1 – 6 mm ²	2 x 4 – 10 mm ²	2 x 4 – 10 mm ²
Enclosure material	Glass-fibre reinforced polyester	Polyamide	Polyamide	Polyamide	Polyamide
63 A					
Rated current	63 A	63 A	63 A	63 A	63 A
Cable entry	1 x M50 Ø 22 - 35 mm, 1 x M50 thread plug plastic	1x M50 Ø 22 - 35 mm, 1 x M50 thread plug plastic	Ø 19 - 34 mm	Ø 19 - 34 mm	
Connecting terminals	2 x 4 – 25 mm ² with switch	2 x 4 – 35 mm ² without switch	1 x 4 – 16 mm ² / with pin cable lug ¹⁾ 1 x 35 mm ²	1 x 2.5 – 35 mm ²	1 x 2.5 – 35 mm ²
Enclosure material	Glass-fibre reinforced polyester	Polyamide	Polyamide	Polyamide	Polyamide
125 A					
Rated current	125 A	n/A	125 A	n/A	n/A
Cable entry	1 x M63 Ø 27 - 48 mm, 1 x M63 thread plug plastic	n/A	Ø 31 - 58 mm	n/A	n/A
Connecting terminals	2 x 10 – 70 mm ²	n/A	1 x 2.5 – 35 mm ² / with pin cable lug ¹⁾ 35 mm ²	n/A	n/A
Enclosure material	Glass-fibre reinforced polyester	n/A	Polyamide	n/A	n/A

¹⁾ use supplied cable lugs

Series 1: IEC rated, non-hazardous heavy duty industrial

16A									
Amps	Poles/ wires	Voltage	 Flange socket	 Plug	 Coupler	 Inlet	 Wall Socket with interlock	 Wall Socket with interlock switch	 Cable Gland entries
16A	3P	110-130 V	GHG5218304R0001	GHG5217304R0001	GHG5213304R0001	GHG5219304R0001	GHG5214304R3001	*1	M20
	3P	220-250 V	GHG5218306R0001	GHG5217306R0001	GHG5213306R0001	GHG5219306R0001	GHG5214306R0001	*1	M20
	4P	220-250 V	GHG5218409R0001	GHG5217409R0001	GHG5213409R0001	GHG5219409R0001	n/A	GHG5214409R0001	M25
	4P	380-415 V	GHG5218406R0001	GHG5217406R0001	GHG5213406R0001	GHG5219406R0001	n/A	GHG5214406R0001	M25
	4P	480-500 V	GHG5218407R0001	GHG5217407R0001	GHG5213407R0001	GHG5219407R0001	n/A	GHG5214407R0001	M25
	4P	600-660 V	GHG5218405R0001	GHG5217405R0001	GHG5213405R0001	GHG5219405R0001	n/A	GHG5214405R0001	M25
	5P	380-415 V	GHG5218506R0001	GHG5217506R0001	GHG5213506R0001	GHG5219506R0001	GHG5214506R0001	n/A	M25
32A	4P	220-250 V	GHG5228409R0001	GHG5227409R0001	GHG5223409R0001	GHG5229409R0001	*1	GHG5224409R0001	M40
	4P	380-415 V	GHG5228406R0001	GHG5227406R0001	GHG5223406R0001	GHG5229406R0001	*1	GHG5224406R0001	M40
	4P	480-500 V	GHG5228407R0001	GHG5227407R0001	GHG5223407R0001	GHG5229407R0001	*1	GHG5224407R0001	M40
	4P	600-660 V	GHG5228405R0001	GHG5227405R0001	GHG5223405R0001	GHG5229405R0001	*1	GHG5224405R0001	M40
	5P	380-415 V	GHG5228506R0001	GHG5227506R0001	GHG5223506R0001	GHG5229506R0001	*1	GHG5224506R0001	M40
63A	4P	220-250 V	GHG5248409R0001	GHG5247409R0001	GHG5243409R0001	GHG5249409R0001	n/A	GHG5244409R0001	M50
	4P	380-415 V	GHG5248406R0001	GHG5247406R0001	GHG5243406R0001	GHG5249406R0001	n/A	GHG5244406R0001	M50
	4P	480-500 V	GHG5248407R0001	GHG5247407R0001	GHG5243407R0001	GHG5249407R0001	n/A	GHG5244407R0001	M50
	4P	600-660 V	GHG5248405R0001	GHG5247405R0001	GHG5243405R0001	GHG5249405R0001	n/A	GHG5244405R0001	M50
	5P	380-415 V	GHG5248506R0001	GHG5247506R0001	GHG5243506R0001	GHG5249506R0001	n/A	GHG5244506R0001	M50
125A	4P	220-250 V	n/A	GHG5257409R0001	n/A	GHG5259409R0001	n/A	GHG5254409R0001	M63
	4P	380-415 V	n/A	GHG5257406R0001	n/A	GHG5259406R0001	n/A	GHG5254406R0001	M63
	4P	480-500 V	n/A	GHG5257407R0001	n/A	GHG5259407R0001	n/A	GHG5254407R0001	M63
	4P	600-660 V	n/A	GHG5257405R0001	n/A	GHG5259405R0001	n/A	GHG5254405R0001	M63
	5P	380-415 V	n/A	GHG5257506R0001	n/A	GHG5259506R0001	n/A	GHG5254506R0001	M63

*1 on request

Series 2: NEC rated, non-hazardous heavy duty industrial

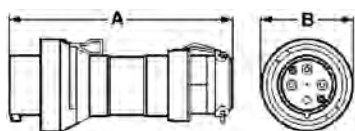


Amps	Poles/ wires	Voltage	Flange socket	Plug	Coupler	Inlet	Wall Socket with interlock	Wall Socket with interlock switch	Myers hub
20A	3P	110-130 V	tbd	GHG5217304L0002	GHG5213304L0002	GHG5219304L0002	GHG5214304L3002	*1	1/2"
	3P	220-250 V	GHG5218306L0002	GHG5217306L0002	GHG5213306L0002	GHG5219306L0002	GHG5214306L3002	*1	1/2"
	3P	480-500 V	GHG5218307L0002	GHG5217307L0002	GHG5213307L0002	GHG5219307L0002	GHG5214307L3002	*1	1/2"
	4P	125/250 V	GHG5218412L0002	GHG5217412L0002	GHG5213412L0002	GHG5219412L0002	*1	GHG5214412L3002	3/4"
	4P	220-250 V	GHG5218409L0002	GHG5217409L0002	GHG5213409L0002	GHG5219409L0002	*1	GHG5214409L3002	3/4"
	4P	480-500 V	GHG5218407L0002	GHG5217407L0002	GHG5213407L0002	GHG5219407L0002	*1	GHG5214407L3002	3/4"
	4P	600-660 V	GHG5218405L0002	GHG5217405L0002	GHG5213405L0002	GHG5219405L0002	*1	GHG5214405L3002	3/4"
	5P	208-250 V	GHG5218509L0002	GHG5217509L0002	GHG5213509L0002	*1	GHG5214509L3002	*1	3/4"
	5P	480-500 V	GHG5218507L0002	GHG5217507L0002	GHG5213507L0002	*1	GHG5214507L3002	*1	3/4"
	5P	600-660 V	GHG5218505L0002	GHG5217505L0002	GHG5213505L0002	*1	GHG5214505L3002	*1	3/4"
30A	3P	110-130 V	GHG5228304L0002	GHG5227304L0002	GHG5223304L0002	GHG5229304L0002	GHG5224304L3002	*1	1"
	3P	220-250 V	GHG5228306L0002	GHG5227306L0002	GHG5223306L0002	GHG5229306L0002	GHG5224306L3002	*1	1"
	3P	480-500 V	GHG5228307L0002	GHG5227307L0002	GHG5223307L0002	GHG5229307L0002	GHG5224307L3002	*1	1"
	4P	125/250 V	GHG5228412L0002	GHG5227412L0002	GHG5223412L0002	GHG5229412L0002	*1	GHG5224412L3002	1"
	4P	220-250 V	GHG5228409L0002	GHG5227409L0002	GHG5223409L0002	GHG5229409L0002	*1	GHG5224409L3002	1"
	4P	480-500 V	GHG5228407L0002	GHG5227407L0002	GHG5223407L0002	GHG5229407L0002	*1	GHG5224407L3002	1"
	4P	600-660 V	GHG5228405L0002	GHG5227405L0002	GHG5223405L0002	GHG5229405L0002	*1	GHG5224405L3002	1"
	5P	208-250 V	GHG5228509L0002	GHG5227509L0002	GHG5223509L0002	*1	GHG5224509L3002	*1	1"
	5P	480-500 V	GHG5228507L0002	GHG5227507L0002	GHG5223507L0002	*1	GHG5224507L3002	*1	1"
	5P	600-660 V	GHG5228505L0002	GHG5227505L0002	GHG5223505L0002	*1	GHG5224505L3002	*1	1"
60A	3P	110-130 V	GHG5248304L0002	GHG5247304L0002	GHG5243304L0002	GHG5249304L0002	n/A	GHG5244304L3002	1-1/4"
	3P	220-250 V	GHG5248306L0002	GHG5247306L0002	GHG5243306L0002	GHG5249306L0002	n/A	GHG5244306L3002	1-1/4"
	3P	480-500 V	GHG5248307L0002	GHG5247307L0002	GHG5243307L0002	GHG5249307L0002	n/A	GHG5244307L3002	1-1/4"
	4P	125/250 V	GHG5248412L0002	GHG5247412L0002	GHG5243412L0002	GHG5249412L0002	n/A	GHG5244412L3002	1-1/4"
	4P	220-250 V	GHG5248409L0002	GHG5247409L0002	GHG5243409L0002	GHG5249409L0002	n/A	GHG5244409L3002	1-1/4"
	4P	480-500 V	GHG5248407L0002	GHG5247407L0002	GHG5243407L0002	GHG5249407L0002	n/A	GHG5244407L3002	1-1/4"
	4P	600-660 V	GHG5248405L0002	GHG5247405L0002	GHG5243405L0002	GHG5249405L0002	n/A	GHG5244405L3002	1-1/4"
	5P	208-250 V	GHG5248509L0002	GHG5247509L0002	GHG5243509L0002	GHG5249509L0002	n/A	GHG5244509L3002	1-1/4"
	5P	480-500 V	GHG5248507L0002	GHG5247507L0002	GHG5243507L0002	GHG5249507L0002	n/A	GHG5244507L3002	1-1/4"
	5P	600-660 V	GHG5248505L0002	GHG5247505L0002	GHG5243505L0002	GHG5249505L0002	n/A	GHG5244505L3002	1-1/4"
100A	3P	110-130 V	n/A	GHG5257304L0002	n/A	GHG5259304L0002	n/A	n/A	1-1/2"
	3P	220-250 V	n/A	GHG5257306L0002	n/A	GHG5259306L0002	n/A	n/A	1-1/2"
	3P	480-500 V	n/A	GHG5257307L0002	n/A	GHG5259307L0002	n/A	n/A	1-1/2"
	4P	125/250 V	n/A	GHG5257412L0002	n/A	GHG5259412L0002	n/A	n/A	1-1/2"
	4P	220-250 V	n/A	GHG5257409L0002	n/A	GHG5259409L0002	n/A	n/A	1-1/2"
	4P	480-500 V	n/A	GHG5257407L0002	n/A	GHG5259407L0002	n/A	n/A	1-1/2"
	4P	600-660 V	n/A	GHG5257405L0002	n/A	GHG5259405L0002	n/A	n/A	1-1/2"
	5P	208-250 V	n/A	GHG5257509L0002	n/A	GHG5259509L0002	n/A	n/A	1-1/2"
	5P	480-500 V	n/A	GHG5257507L0002	n/A	GHG5259507L0002	n/A	n/A	1-1/2"
	5P	600-660 V	n/A	GHG5257505L0002	n/A	GHG5259505L0002	n/A	n/A	1-1/2"

*1 on request

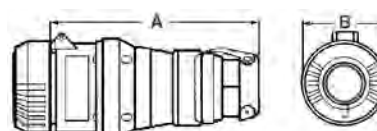
Dimensions

Plug



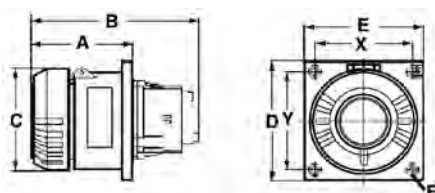
Amps	Pole	A	B	Cord range		
				3-pole	4-pole	5-pole
20/16A	3-pole	175	72			
	4-pole	187	76.5	8-19	8-21	12-21
	5-pole	187	84			
30/32A	4-pole	249	95	17-28	17-28	17-28
	5-pole	249	100			
60/63A		272	110	19-34	19-34	19-34
100/125A		310	120	31-58	31-58	31-58

Coupler



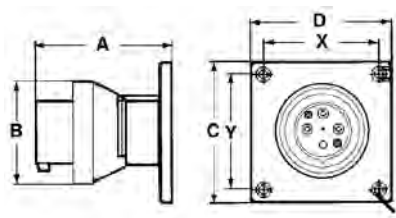
Amps	Pole	A	B	Cord range		
				3-pole	4-pole	5 pole
20/16A	3-pole	220	86			
	4-pole	223	76,5	8-19	8-21	12-21
	5-pole	226	86,5			
30/32A	3-4-pole	272	95	17-28	17-28	17-28
	5-pole	277	100			
60/63A		322	117	19-34	19-34	19-34
100/125A		372	120	31-58	31-58	31-58

Flange socket



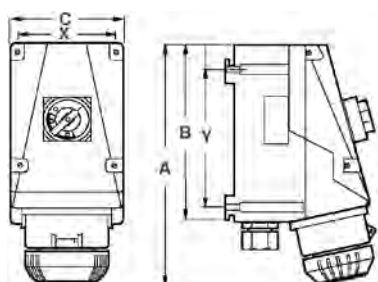
Amps	Pole	A	B	C	D	E	F	X	Y
20/16A	3-pole	75	109		86	86	10	69,5	69,5
	4-pole	85	125	95	86	86	10	69,5	69,5
	5-pole	85	125	95	86	86	10	69,5	69,5
30/32A	4-pole	85	125	95	86	86	10	69,5	69,5
	5-pole	91	130	100	86	86	10	69,5	69,5
60/63A		116	157	105	86	86	10	69,5	69,5
100/125A		118,5	181,5	120	130	130	10	104	104

Inlet



Amps	Pole	A	B	C	D	F	X	Y
20/16A	3-pole	83	72	86	86	10	69,5	69,5
	4-pole	85	76,5	86	86	10	69,5	69,5
	5-pole	85	76,5	86	86	10	69,5	69,5
30/32A	3-4-pole	108	95	86	86	10	69,5	69,5
	5-pole	108	95	86	86	10	69,5	69,5
60/63A		138	110	105	105	10	77	85
100/125A		156	120	130	130	10	104	104

Wall socket with interlock switch



Amps	Pole	A	B	C	X	Y
20/16 A	4-pole	293	205	120	110	170
	5-pole	293	205	120	110	170
30/32A	4-pole	293	205	120	110	170
	5-pole	293	205	120	110	170
60/63A	4-5-pole	475	370	200	184	276
100/125A	4-5-pole	537	430	234	218	303

All Dimensions are in mm.

Accessories IEC



Mounting plate
for wall mountng



Mounting plate
for trellis mounting



Plug cup



Protective canopy
for mounting plate

16 A

Mounting plate	Type	Application	Fixing method	Order No.
	Size 4	for wall mounting	snap on	GHG 610 1953 R0126
	Size 4	for trellis mounting	snap on	GHG 610 1953 R0126
	Size 4	for pipe clamp	snap on	GHG 610 1953 R0130
Plug cup				Order No.
Plug 16 A 3-pole				GHG 510 1901 R0001
Plug 16 A 4-pole				GHG 510 1901 R0002
Plug 16 A 5-pole				GHG 510 1901 R0003
Accessories for mounting plate			OU	Order No.
Mounting set for pipes 1" (Ø 27 - 30 mm) for mounting plates with pipe fixing			10	GHG 610 1953 R0020
Protective canopyfor mounting plate		Application		Order No.
Size 4		for mounting plate size 4, snap on		GHG 610 1955 R0107

32 A

Mounting plate	Type	Application	Fixing method	Order No.
	Size 5	for wall mounting	snap on	GHG 610 1953 R0128
	Size 5	for trellis mounting	snap on	GHG 610 1953 R0128
	Size 5	for pipe clamp	snap on	GHG 610 1953 R0132
Plug cup				Order No.
Plug 32 A 3-pole/4-pole				GHG 510 1901 R0004
Plug 32 A 5-pole				GHG 510 1901 R0005
Accessories for mounting plate			OU	Order No.
Mounting set for pipes 1" (Ø 27 - 30 mm) for mounting plates with pipe fixing			10	GHG 610 1953 R0020
Protective canopyfor mounting plate		Application		Order No.
Size 5		for mounting plate size 5 snap on		GHG 610 1955 R0108

63 A

Plug cup	OU	Order No.
Pin cable lug 25 mm ² (5 pcs. for plug)	5	GHG 510 1916 R0001
Plug cap 4-pole/5-pole	1	GHG 510 1901 R0006

125 A

Plug cup	OU	Order No.
Pin cable lug 50 mm ² (5 pcs. for plug)	5	GHG 510 1916 R0002
Plug cap 4-pole/5-pole	1	GHG 510 1901 R0007
Set of ring cable ug 70/120 mm ² for wall socket		GHG 260 1911 R0004



Crouse-Hinds Series Products

The safety you rely on.

See the complete offering of hazardous and industrial products at www.crouse-hinds.de.

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Solutions for Harsh & Heavy Industry

Industrial Products from
Eaton's Crouse-Hinds Business



Crouse-Hinds
by **EATON**

Eaton's Crouse Hinds products for your industrial application.

Eaton's Crouse-Hinds integrates a comprehensive line of electrical and instrumentation products with expert support, industry insights, and local availability to engineer safety and productivity in the most demanding industrial and commercial environments worldwide.

We manufacture over 100,000 products—whether you need fittings, motor control, lighting, plugs and receptacles, or commercial outlet boxes and hubs, we offer the largest selection of electrical products for your unique application or market.



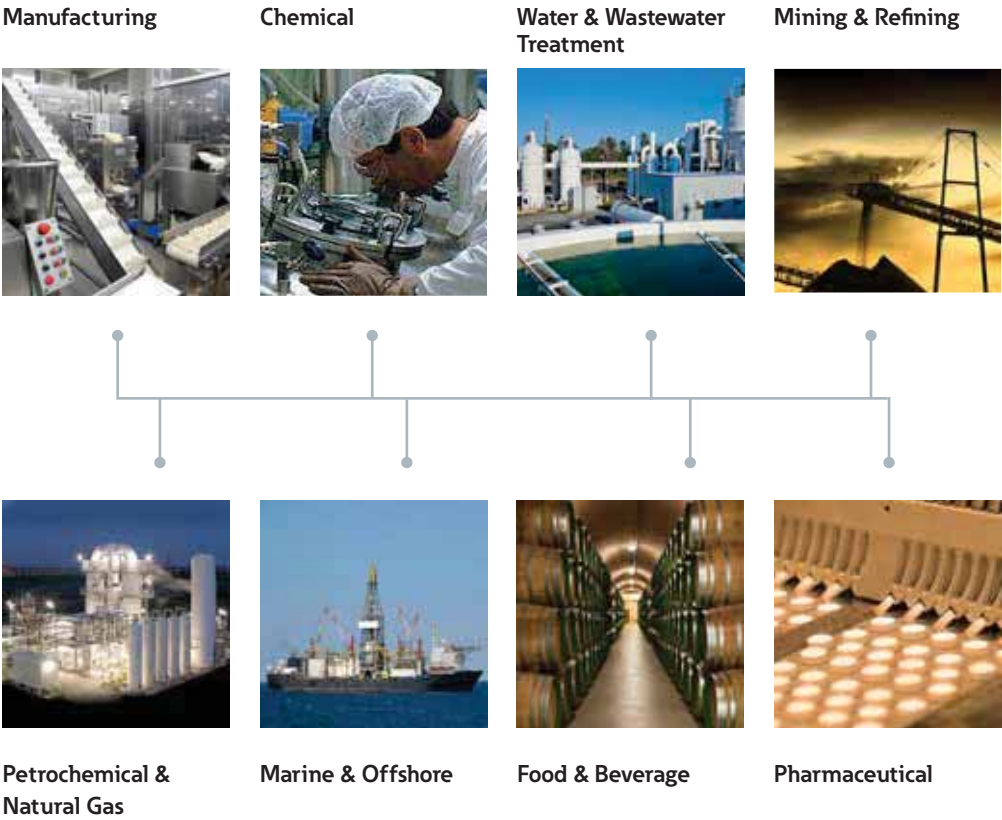
Industrial electrical apparatus for harsh & heavy environments.



We be there, where you will need us.

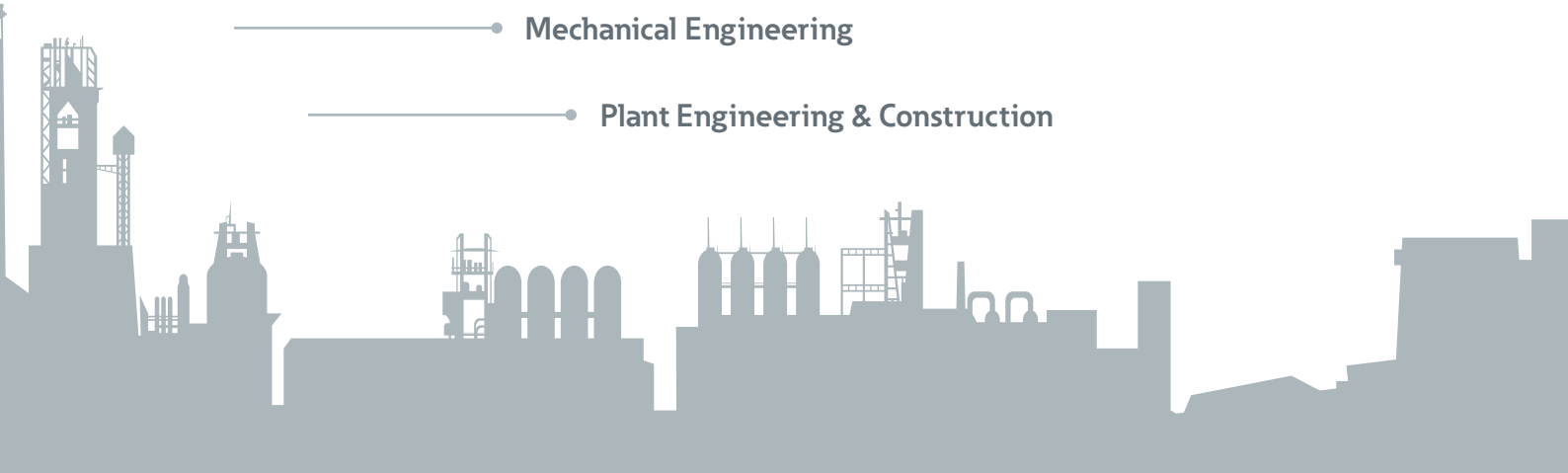
Where we are - Markets.

We are committed to technological progress and develop and produce a range of products that fulfils all the requirements currently placed on modern technology. Illumination, controlling, and the distribution of electrical energy in harsh industrial environments represent a significant part of our business activities. Because we are constantly in touch with our customers in industry, we are able to react directly to the changing requirements of a demanding business sector. Thus, we are constantly optimizing our product range and adding products to suit every application. It is safe to say that we also have a suitable solution for your application.



For almost every application.

- Building Industry
- Heavy Industry
- Mechanical Engineering
- Plant Engineering & Construction



What we offer - Values & Services.

Eaton's Crouse-Hinds provides the products, expertise, innovation, and industry commitment to help you build and support industrial manufacturing facilities safely and effectively. Since 1897, we have led the development of safer, more reliable ways to power the most challenging harsh and hazardous areas.

The Eaton's Crouse-Hinds team is behind you to help specify and deliver the right solution for your unique applications. We can help you safely and reliably increase uptime, reduce labour costs, and drive energy efficiency throughout your operations. Our portfolio of time-tested, field-proven products help minimize the unacceptable cost of downtime and meet critical operating challenges day after day.



In today's economic and health and safety conscious environments, it is crucial to deploy products which are reliable, safe and cost effective, thus reducing downtime, decreasing operational expenditure and helping to increase a plant's profitability.



What we deliver - Industrial Product Portfolio.



Industrial Lighting

Our extremely impact- and heat-resistant luminaires provide safe lighting in the heavy industry, even under the most extreme ambient conditions. Nonetheless, the outstanding characteristics of these luminaires are their performance and easy installation.



Industrial Control & Apparatus

For rough industrial environments we use the proven enclosures from the explosion-protection areas: impact-resistant, modified moulded-plastic enclosures made of glass-fibre-reinforced polyester, powder-coated steel or stainless steel 316L.



Industrial Connectivity

The robust enclosures can withstand chemical and mechanical stresses and strains that are the same as those that also occur in hazardous areas. Easy installation of wall sockets, variable cable entries and generously dimensioned connection terminals allow a cost-efficient use of apparatus.

Your single source provider.

Champ® Pro PFM Series LED Floodlights

Primary applications

Indoor and outdoor area lighting in manufacturing plants, mine sites and processing areas, platforms, loading docks and parking areas.

Luminaire models

Model Number	Equivalent HID Luminaire	Power	Lumen Output
PFM5L	100 W-150 W	64 W	4.386
PFM7L	150 W-175 W	89 W	6.720
PFM9L	175 W- 250 W	121 W	8.478
PFM11L	250 W- 320 W	149 W	10.420
PFM13L	320 W- 400 W	179 W	12.940
PFM25L	600 W-750 W	263 W	26.814
PFM50L	1.500 W	531 W	55.412

Certifications & compliances

- CE
- High protection level: IP66

Electrical ratings

- Voltages: 100- 277 V AC, 347 / 480 V AC, 108- 250 V DC
- System lifetime of 60.000 h at 55 °C and >120.000 h at 25 °C
- Efficiency up to 104 lm/W

Options & accessories

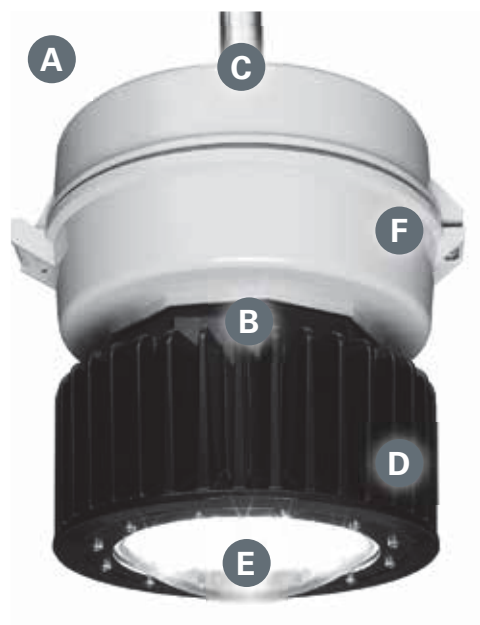
- Floodlight Slipfitter
- Polycarbonate Lens



Up to 6 times longer life and 65 % reduction in power consumption compared to equivalent HID floodlights

Design features

- A Versatile design** - Can be used for outdoor or indoor applications, and for a wide range of mounting heights depending on model and light level requirement.
- B Rugged heat sink** - Designed to perform in high ambient temperatures up to +55 °C and as low as -40 °C. The thick walls of the castings make for a tough, rugged housing that keeps the internal driver and LED temperatures down.
- C High lumen output** - High efficiency drivers and LED arrays provide reliable low cost operation in harsh and hazardous environments.
- D Full-frame yoke** - Designed to utilize the SFA6 slipfitter, making it ideal for retrofit or new installations.
- E Multiple lens options** - Tempered and clear glass standard, polycarbonate option available.



PVM3L – 11L



PVM13L and 17L



PVM21L and 25L

Efficiency up to 112 lm/W for 77 % power reduction compared to equivalent HID High bay fixture

Design features

- A Modul Design** - This contractor-friendly design is ideal for both retrofit and new construction applications.
- B Safe, reliable heat transfer** - The cast aluminum housing provides safe and effective heat transfer from the LED assembly to the outside environment, ensuring low LED junction temperature, reliability and sustained lumen performance. This allows best performance within an ambient temperature from -40 °C up to +55 °C.
- C High efficiency drivers** - Designed to provide reliable operation in even the harshest environments.
- D IP66 rated** - The LED housing is constructed of durable die cast aluminum, providing an efficient thermal path to the heat sink assembly. The impact-resistant lens is sealed from the outside environment and provides ingress protection against water and dust.
- E Customs optic** - Type I, III and V optics designed to maximize light distribution and intensity.
- F Lever-lock connectors and 3-pole terminal block**

Champ® Pro PVM Series LED Lighting

Primary applications

Locations requiring continuous and consistent light levels in extreme ambient temperatures, such as manufacturing plants, heavy industrial or petrochemical facilities, food and beverage facilities, platforms, loading docks, tunnels, outdoor wall and stanchion mounted general area lighting.

Luminaire models

Model Number	Equivalent HID Luminaire	Power	Lumen
PVM3L	70 W- 100 W	41 W	3.515
PVM5L	100 W- 150 W	67 W	5.288
PVM7L	150 W- 175 W	94 W	7.404
PVM9L	175 W- 250 W	114 W	9.515
PVM11L	250 W- 320 W	118 W	10.935
PVM13L	320 W- 400 W	131 W	13.226
PVM17L	400 W- 600 W	168 W	18.793
PVM21L	600 W- 750 W	196 W	22.110
PVM25L	750 W- 1.000 W	232 W	26.531

Certifications & compliances

- CE
- High protection level: IP66

Electrical ratings

- Voltages: 100- 277 V AC, 347/480 V AC, 108- 250 V DC
- System lifetime of of 60.000 h at 55 °C and > 170.000 h at 25 °C
- Efficiency up to 112 lm/W

Options & accessories

- Diffused Lens
- Teflon coated Lens
- Polycarbonate Lens
- Trunnion mount
- Cone top hat
- Top hat for ceiling mount, wall mount and pole mount installation

LLK 98 with T8 fluorescent or in LED version

Applications

The industrial light fittings of the series LLK 98 conform to the requirements of harsh environments and heavy duty. They are designed and tested for use in harsh environments with high mechanical hazards, humidity and dust according to EN 60598 and EN 60529. Additionally these light fittings have excellent mechanical properties, a high UV-resistance and solid stability against many chemicals found in industrial plants.

Models

Type	Light source
LLK 98018/18	2 x 18 W fluorescent
LLK 98036	1 x 36W fluorescent
LLK 98036/36	2 x 36 W fluorescent
LLK 98058	1 x 58 W fluorescent
LLK 98058/58	2 x 58 W fluorescent
LLK 98 LED 600	2 x 600 mm LED Tube (2 x 11 W)
LLK 98 LED 1200	2 x 1200 mm LED Tube (2 x 22 W)
LLK 98 LED 1500	2 x 1800 mm LED Tube (2 x 28 W)

Certifications & compliances

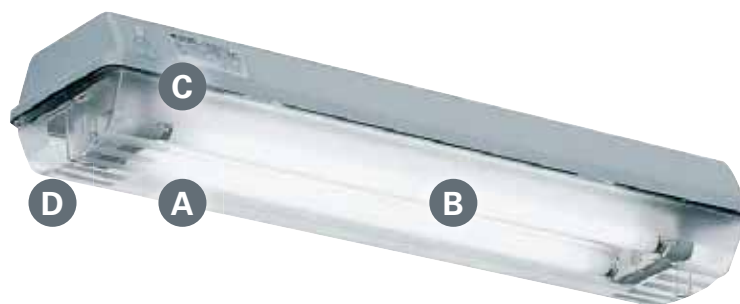
- CE
- IP66
- IK 10

Electrical ratings

- Voltages: 220- 240 V AC
- Input power: depends on lamp use

Options & accessories

- Several cable gland options
- T8 fluorescent lamps
- T8 LED lamps



Available with conventional T8-fluorescents or as LED T8 retrofit tube models

Design features

- A High resistance** - Excellent mechanical properties and high resistance against humidity, dust and harsh environments.
- B High ingress protection IP66**
- C Double-sided safety lock**
- D EOL** - Fluorescent version with electronic ballast, EOL set-up included.



High integrity due to “one piece” sealing gasket provides IP66

Design features

The QBX range offers unique design features, precision manufacturing and the highest quality materials, making it the premier choice for instrumentation and electrical applications across the globe.

High integrity - “one piece” foam in place polyurethane gasket.

Hinged door - With chromium plated zinc ¼ turn lock (Double bit lock supplied as standard with other key options on request, also stainless steel lock available).

4 x adjustable external lugs - Lugs can be mounted vertically, horizontally or diagonally, supplied loose.

4 x M6 x 16 studs - Supplied with a 2 mm thick zinc coated mounting plate. Fixing kit supplied.

Optional - 1.5 mm thick gland plates available in top & bottom.

Internal M6 stud on base & door

Stainless Steel Enclosures

Applications

QBX Enclosures are manufactured to meet the most demanding industrial and industrial area environmental applications. It is a medium duty enclosure and it is available in a wide range of sizes to meet a diverse range of applications.

Enclosure models

- 304 or 316L stainless steel- electro polished surface
- Sheet steel- polyester powder coated to RAL 7032
- Special versions on request

Technical data

- -60 °C up to +80 °C
- Protection level: IP66 to EN 60529

Safety Switches Metal Design

Applications

CEAG safety switches can be protected against inadvertent switching on by our integrated locking facility for up to three padlocks in the OFF position.

To prevent manipulations, the enclosure covers cannot be opened in the locked position without destroying the enclosure itself.

Features

- Full AC-3 switching capacity
- Double safety: additional auxiliary contact
- Cost-saving installation
- Up to 40 A: snap mounting
- Up to 630 A: IP66 protection

Technical data

- Temperature ranges: -55 °C up to +55 °C
- Rated voltage: 10 V up to max. 690 V
- Rated current: up to max. 630 A
- Frequency: 50 / 60 Hz
- Protection level: IP66
- High impact resistance: IK 10



Full AC 3 motor switching capacities and isolating properties according to EN 60947-4-1

Design features

For rough industrial environments we use the proven enclosures from the explosion-protection areas: impact-resistant, modified moulded-plastic enclosures made of glass-fibre-reinforced polyester, powder-coated steel or stainless steel 316L. These can be optionally supplied with snap-on moulded plastic or brass flanges. Metal versions can be equipped with screw-on flanges.

Material: Steel, powder-coated polyester

With emergency stop

3-pole and 6-pole

Different sizes

Optional cable gland entries



Simple & quick mounting with CEAG mounting system

Design features

All CEAG safety switches feature full AC-3 motor switching capacities and isolating properties according to EN 60947-4-1 with compulsory opening of the main current contacts. Optional EMERGENCY STOP versions according to EN 60204-1 are also available.

Material: glass-fibre reinforced polyester

3-pole and 6-pole

With emergency stop

Different sizes

Optional cable gland entries

Safety Switches Plastic Design

Applications

Safety switches, made of glass-fibre reinforced polyester, are used to reliably isolate the power supply on electrical installations and apparatus during maintenance, cleaning and repair work.

Features

- Full AC-3 switching capacity
- Double safety: additional auxiliary contact
- Cost-saving installation
- Up to 40 A: snap mounting
- Up to 180 A: IP66 protection

Technical data

- Temperature ranges: -55 °C up to +55 °C
- Rated voltage: 10 V up to max. 690 V
- Rated current: up to max. 180 A
- Frequency: 50 / 60 Hz
- Protection level: IP66
- High impact resistance: IK 10

Control Stations Plastic & Metal Design

Applications

CEAG control stations can be combined according to customers' specifications. Quick fixing allows up to three CEAG built-in components, such as signal lamps, pushbuttons and switches, to be snapped on a rail in the enclosure. The enclosures consist of low-temperature impact-resistant thermoplastic and provides a high resistance to chemicals. The well thought out design with low side walls allows optimum cable connection.

Enclosure models

- Plastic
- Light alloy metal
- Stainless steel

Technical data

- Temperature ranges: -20 °C up to +40 °C (option: -55 °C up to +55 °C)
- Rated voltage: up to max. 690 V AC
- Rated current: 16 A
- Protection level: IP66
- High impact resistance: IK 10



Highly mechanical, chemical and thermal resistant

Design features

At the heart of every electrical system is the control station. Even under the most adverse conditions, CEAG control stations can be used and operated reliably. The enclosures consist of impact-resistant thermoplastic, glass-fibre-reinforced polyester, light alloy or stainless steel.

Flat side walls

Quick fixing for all built-in components

High chemical resistance

Different enclosures can be combined



All distribution panels are combinable and expandable

Design features

The extensive Eaton's Crouse-Hinds product range offers everything you're looking for – just in time: Distribution panels are available in the most diverse materials, such as glass-fibre reinforced polyester, electro-polished stainless steel or die-cast light alloy or alternatively polyester powder-coated steel.

Modular slip-on assembly

High ingress protection IP66

Snap-on components

Retrofitting

Actuating flaps for easy operation

Distribution Panels Plastic & Metal Design

Applications

The distribution panels are used for safeguarding, controlling, switching and distributing electric power, e.g. main, lighting, heating, control and intrinsically safe circuits, etc.

Enclosure models

- Plastic
- Light alloy metal
- Stainless steel

Technical data

- Temperature ranges: -20 °C up to +40 °C (option: -55 °C up to +55 °C)
- Rated voltage: up to max. 690 V AC
- Rated current: 16 A
- Protection level: IP66
- High impact resistance: IK 10

Plugs & Receptacles

Applications

Plugs and receptacles of the 16 A to 125 A range fulfil (even when they are plugged-in) the high ingress protection standard of IP66 and have as standard maintenance-free and proven lamellar contacts. The variable cable entries in connection with the generously dimensioned connection terminals allow for an economical use.

Models

- A** Interlock unfused w/internal switch
- B** Interlock unfused w/external switch
- C** Connector
- D** Plug
- E** Receptacle
- F** Inlet

Technical data

- Rated voltage up to 690 V
- Rated current 16 A - 125 A (US 20 A - 100 A)
- Frequency 50 / 60 Hz
- Rated voltage up to 690 V
- Protection level: IP66

Accessories

- Mounting plate
- Plug cap
- Protective canopy



Robust GRP construction, with high impact resistance (IK 10)

Design features

CEAG plugs and receptacles are not only robust, they are also very reliable. In the "normal" industrial environment plugs and receptacles are exposed to similar conditions (chemical and mechanical) as their explosion-protected counter parts. With the introduction of the new plug and receptacle generation Eaton's Crouse-Hinds now has a complete program for industrial usage.

Self-cleaning lamellar contacts, low transition resistance

Fibre-glass reinforced polyester housings

Interlocking switch



Large cable connection area and high safety standard IP66.

Design features

Eaton's Crouse-Hinds Business cable glands are the easiest and safest solution for your installation and maintenance needs. In any electrical or instrumentation installation, our glands are the reliable and safe way to move power and signals.

Wide clamping range

Superior strain relief

All types of cables

Providing alternative cable routing options

Innovative design configurations

Cable Glands Plastic & Metal Design

Applications

The outstanding feature of the CEAG cable glands is the large cable connection area. A high ingress protection safety standard is achieved with the integrated sealing lip on the screw-in cable entries. Installed on a plain surface the use of an additional sealing ring can be overriden. The superior mechanical and handling features are achieved by using a modified polyamide material and an optimized tooling area.

Models

- A** Trumpet gland
- B** EUROCAP gland
- C** IGE1W
- D** IGE1X
- E** IGA2
- F** NEWCAP gland
- G** IGBW

Technical data

- Temperature ranges: -60 °C up to +150 °C
- Ingress protection level: IP66

Accessories

- Locknuts
- Spanner
- Gaskets
- Metal locknuts
- Earth tag
- Strain clamp
- Earthing washer
- PVC shroud
- Blanking plug





Eaton's Crouse-Hinds Business

The safety you rely on.

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Powering Business Worldwide

Global LED lighting portfolio

CROUSE-HINDS
SERIES

Safe. Reliable. Efficient.

Global LED solutions for harsh and hazardous environments



EAT•N

Powering Business Worldwide



Global LED solutions for harsh
and hazardous environments

Safe. Reliable. Efficient.

Featuring the industry's broadest range of LED luminaires for harsh, hazardous and industrial environments, Eaton's Crouse-Hinds Division can deliver a lighting solution that performs safely and reliably in even the worst operating conditions. All the while reducing your energy, maintenance and manpower costs.

Why LED?

Energy efficiency

LED average energy consumption is significantly less than traditional fluorescent and HID fixtures

Start/restart time

Instant illumination vs. 10 minute restrike time for HID

Light quality

Higher color rendering compared to fluorescent and HID

Environmental benefits

Mercury-free LED eliminates disposal costs and lowers energy consumption for a smaller carbon footprint

Why Crouse-Hinds?

Industry-best reliability

Built to withstand a wide array of applications

Thermal management

Effective heat sinking ensures longer life

Quality of light

Custom optics designed to maximize light distribution and intensity

Globally certified

Designed to global specifications for NEC and IEC applications

Serviceable drivers

Easy access to drivers for service or replacement

Crouse-Hinds series LED family selection guide

Find out which solution is right for you

Selection guide – Hazardous areas

Area classification	Application	Product	Equivalent light output	Lumen level	Extreme ambientst	Emergency battery option	DLC qualified
Class I, Division 2, Class II and/or Zone 2 & Zone 22	Flood    	Champ™ FMV 	9 models - 70W to 400W HID replacement	3,000 - 50,000 lumens	 +55°C  -40°C		 (select models)*
	High/mid bay    	Champ™ VMV 	9 models - 70W to 1000W HID replacement	3,000 - 26,000 lumens	 +65°C  -40°C		 (select models)*
	High/mid bay 	Champ™ VMV Connected 	5 models - 70W to 400W HID replacement	3,300 - 11,300 lumens	 +65°C  -40°C		 (select models)*
	Mid/low bay  	NLE 	4 models - 70W to 175W HID replacement	3,000 - 8,000 lumens	 +55°C  -40°C		N/A
	Linear  	Champ™ MLL 	2 models - 2 lamp T5HO replacement	3,600 - 7,100 lumens	 +65°C  -40°C		 (select models)*
	Linear  	Pauluhn™ Summit 	3 models - up to 6 lamp T5HO replacement	13,000 - 25,100 lumens	 +55°C  -40°C		 (select models)*
	Linear   	CEAG nLLK15 	2 models - 2x18W and 2x36W fluorescent replacement	2,100 - 4,100 lumens	 +50°C		N/A
	Linear  	nHLL 	4 models - 2x18W, 2x36W and 2x58W fluorescent replacement	3,000 - 8,000 lumens	 +55°C  -40°C		N/A
	Low bay  	Vaporgard™ V2L 	2 models - 100W to 200W incandescent & 50W-70W HID	1,700 - 3,300 lumens	 +55°C		 (select models)*
	Emergency and Exit   	N2LPS, UX, Ex-Lite, Exit, Exit2 	N/A	N/A	 Varies by family		N/A

† Operating temperature range may vary slightly by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

* Refer to www.designlights.org Qualified Products List under family models for full listing details.
Not all models are approved for all application categories.

Crouse-Hinds series LED family selection guide

Selection guide – Hazardous areas

Area classification	Application	Product	Equivalent light output	Lumen level	Extreme ambients†	Emergency battery option	DLC qualified
Class I, Division 1 Class II and/or Zone 1 & Zone 21	Floodlight IECEx 	CEAG PXLED 	6 models - 70W to 600W HID replacement	5,000 - 30,000 lumens	 +55°C  -50°C		N/A
	High/mid bay  IECEx	Hazard-Gard™ EVLL/nEVLL 	5 models - 70W to 400W HID replacement	5,700 - 13,500 lumens	 +55°C  +65°C		 (select models)*
	High/mid bay IECEx 	LPL 	8 models - 70W to 400W HID replacement	4,500 - 14,500 lumens	 +55°C  -40°C		N/A
	Mid/low bay IECEx 	HPL 	4 models - 70W to 175W HID replacement	3,000 - 8,000 lumens	 +50°C  -40°C		N/A
	Linear  ABS	Hazard-Gard™ XPL 	2 models - 2 lamp T5HO replacement	3,800 - 7,600 lumens	 +65°C  -40°C		N/A
	Linear IECEx 	CEAG Ex-Lin 	3 models - 2x18W, 2x36W and 2x58W fluorescent replacement	2,750 - 8,120 lumens	 +55°C  -40°C		N/A
	Linear  IECEx 	CEAG eLLK LED 	2 models - 2x18W and 2x36W fluorescent replacement	2,100 - 4,100 lumens	 +55°C		N/A
	Linear IECEx 	HLL 	2 models - 2x18W and 2x36W fluorescent replacement	2,800 - 5,700 lumens	 +55°C  -40°C		N/A
	Low bay 	Hazard-Gard™ EV LED 	2 models - 100W to 200W incandescent & 70W-100W HID replacement	1,500 - 2,000 lumens	 +55°C (AC)		N/A
	Bulkhead IECEx 	AB05 LED 	1 model - 150W incandescent replacement	2,000 lumens	 +55°C  -55°C		N/A

† Operating temperature range may vary slightly by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

* Refer to www.designlights.org Qualified Products List under family models for full listing details.
Not all models are approved for all application categories.

Find out which solution is right for you

Selection guide – Harsh/heavy & light industrial

Area classification	Application	Product	Equivalent light output	Lumen level	Extreme ambients†	Emergency battery option	DLC qualified
Harsh/heavy industrial	Flood   	Champ™ Pro PFM 	9 models - 70W to 1500W HID replacement	3,000 - 50,000 lumens	 +55°C  -40°C		 (select models)*
	High/mid bay  	Champ™ Pro PVM 	9 models - 70W to 1000W HID replacement	3,000 - 26,000 lumens	 +65°C  -40°C		 (select models)*
	High/mid bay  	Champ™ Pro PVMA 	2 models - 150W to 175W HID replacement	5,800 - 7,700 lumens	 +55°C  -40°C		 (select models)*
	Mid/low bay 	PLE 	4 models - 70W to 175W HID replacement	3,000 - 8,000 lumens	 +55°C  -40°C		N/A
	Linear 	Champ™ Pro PLL 	2 models - 2 lamp T5HO replacement	3,600 - 7,100 lumens	 +65°C  -40°C		 (select models)*
	Linear  	Pauluhn™ APEX 	3 models - up to 6 lamp T5HO replacement	13,000 - 25,100 lumens	 +55°C  -40°C		 (select models)*
	Linear  	Pauluhn™ Intrepid 	1 model - 2 lamp T8 replacement	3,494 lumens	 +50°C		N/A
	Linear 	PLLE 	4 models - 2x18W, 2x36W and 2x58W fluorescent replacement	3,000 - 8,000 lumens	 +55°C  -40°C		N/A
	Linear	CEAG LLK15 	2 models - 2x18W and 2x36W fluorescent replacement	2,100 - 4,100 lumens	 +55°C  -40°C		N/A
	Low bay  	Vaporgard™ Pro P2L 	2 models - 100W to 200W incandescent; 50W-70W HID	1,700 - 3,300 lumens	 +55°C		 (select models)*
Light Industrial	High bay  	Industrial high bay 	5 models - 250W-1000W HID & 4-10 Lamp T5HO replacement	16,000 - 67,000 lumens	 +60°C  -40°C		 (select models)
	High bay 	Champ® Pro PVM High Bay 	2 models - 1000W to 1500W HID replacement	60,000 - 85,000 lumens	 +65°C  -40°C		N/A

† Operating temperature range may vary slightly by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

* Refer to www.designlights.org Qualified Products List under family models for full listing details.
Not all models are approved for all application categories.

Champ™ FMV LED floodlights

PRIMARY APPLICATIONS

Indoor and outdoor area lighting in manufacturing plants, heavy industrial chemical and petrochemical facilities, platforms, loading docks and parking lots.

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
FMV3L	70W	Up to 78% reduction in energy costs and 60,000 hours of continuous operation!
FMV5L	100W-150W	
FMV7L	150W-175W	
FMV9L	175W-250W	
FMV11L	250W-400W	
FMV13L	400W	
FMV15L	400W-500W	
FMVA20L	600W-750W	
FMVA25L	705W-1000W	
FMVA40L	1,500W+	
FMVA50L	1,500W+	

CERTIFICATIONS & COMPLIANCES

- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2
- Class II, Division 1, Groups E, F, G; Simultaneous Presence; Class III
- Type 4X, IP66
- UL844; UL1598; UL1598A; UL8750
- CSA C22.2 No. 137
- IECEX/ATEX Certified; Zone 2/22
- CE
- DesignLights Consortium® approved for select models*

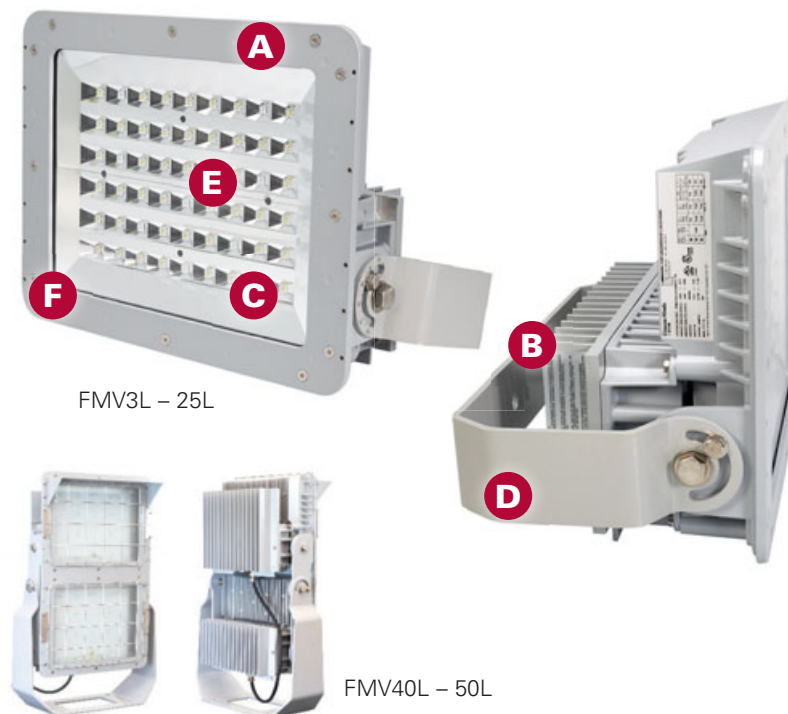
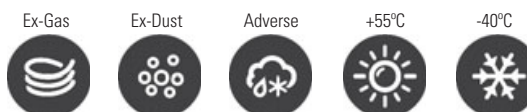


ELECTRICAL RATINGS

- Voltages: 100-277 VAC/108-250 VDC, 347-480 VAC
- Input power: 28W, 45W, 62W, 79W, 99W, 112W, 131W, 175W, 216W, 340W, 411W

OPTIONS AND ACCESSORIES

- Bolt-on visor; bolt-on wire guard
- Floodlight slipfitter (not available for 40L & 50L)
- Slipfitter wall mount adapter (not available for 40L & 50L)
- Diffused glass lens
- Dimmable driver
- 3x3 optic (select models)



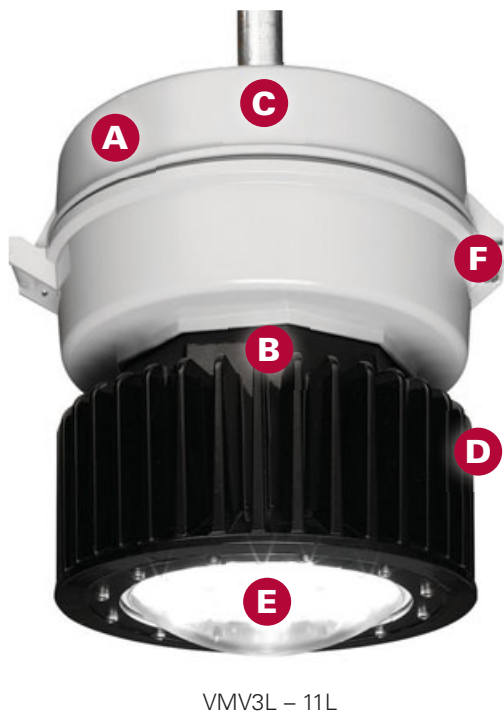
Up to 6 times longer life and 78% reduction in power consumption compared to equivalent HID floodlights

DESIGN FEATURES

- A Versatile design** - Can be used for outdoor or indoor applications, and for a wide range of mounting heights depending on model and light level requirement.
- B Rugged heat sink** - Designed to perform in high ambient temperatures up to +65°C and as low as -40°C. The thick walls of the castings make for a tough, rugged housing that keeps the internal driver and LED temperatures down.
- C High lumen output** - Up to 120 lumens per watt.
- D Full-frame yoke** - Designed to utilize the SFA6 slipfitter and SWB6 wall mount bracket, making it ideal for retrofit or new installations.
- E Multiple lens options** - Tempered and clear glass standard, polycarbonate and diffused glass options available.
- F Smaller and lighter** - 25% smaller and 10 lbs (4.5 kg) lighter than previous model (3L-25L models).



* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.



VMV3L – 11L



VMV13L and 17L



VMV21L and 25L

Custom Type I, III and V optics for better output, zero maintenance and reduced energy consumption

DESIGN FEATURES

- A Modular design** - This contractor-friendly design is ideal for both retrofit and new construction applications.
- B Safe, reliable heat transfer** - Die cast aluminum housing provides safe and effective heat transfer from the LED assembly to the outside environment, ensuring low LED junction temperature, reliability and sustained lumen performance.
- C High efficiency drivers** - Designed to provide reliable operation in even the harshest environments.
- D Type 4X rated** - The LED housing is constructed of durable die cast aluminum, providing an efficient thermal path to the heat sink assembly. The impact-resistant lens is sealed from the outside environment and provides ingress protection against water and dust.
- E Custom optics** - Type I, III and V optics designed to maximize light distribution and intensity.
- F Lever-lock connectors and 3-pole terminal block.**



NEC



CEC



IEC



* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

Champ™ VMV LED luminaires

PRIMARY APPLICATIONS

Locations requiring continuous and consistent light levels in extreme ambient temperatures, such as manufacturing plants, heavy industrial or petrochemical facilities, food and beverage facilities, platforms, loading docks, tunnels, outdoor wall and stanchion mounted general area lighting.

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
VMV3L	70W-100W	Up to 77% reduction in energy costs and 60,000 hours of continuous operation!
VMV5L	100W-150W	
VMV7L	150W-175W	
VMV9L	250W-320W	
VMV11L	320W-400W	
VMV13L	400W	
VMV17L	400W-600W	
VMV21L	600W-750W	
VMV25L	750W-1000W	

CERTIFICATIONS & COMPLIANCES

- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2 nA; Zone 21 tb
- Class II, Division 1, Groups E, F, G; Class III
- Simultaneous presence
- UL844; UL1598; UL1598A; UL8750; UL50; UL50E
- cUL Listed to CSA C22.2 No. 137
- NEMA 4X, IP66, Wet Locations
- IECEx/ATEX Certified; Zone 2/21
- DesignLights Consortium® approved for select models*
- CE



ELECTRICAL RATINGS

- Voltages: 120-277 VAC/ 108-250 VDC, 347/480 VAC
- Input power: 29W, 41W, 54W, 74W, 89W, 130W, 168W, 196W, 232W

OPTIONS AND ACCESSORIES

- Quick clip
- Diffused lens
- Teflon coated lens
- Polycarbonate lens
- Wire guard
- Trunnion mount
- Cone top hat
- Type I, III and V optics
- Terminal block (TB6) 6-pole

Champ™ VMV LED Connected fixtures

PRIMARY APPLICATIONS

Indoor and outdoor area lighting in manufacturing plants, heavy industrial chemical and petrochemical facilities, platforms, loading docks and parking lots.

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
VMV3L	70W-100W	
VMV5L	100W-150W	
VMV7L	150W-175W	
VMV9L	250W-320WW	
VMV11L	320W-400W	

Up to 77% more
efficient than
standard LED light
fixtures!

CERTIFICATIONS & COMPLIANCES

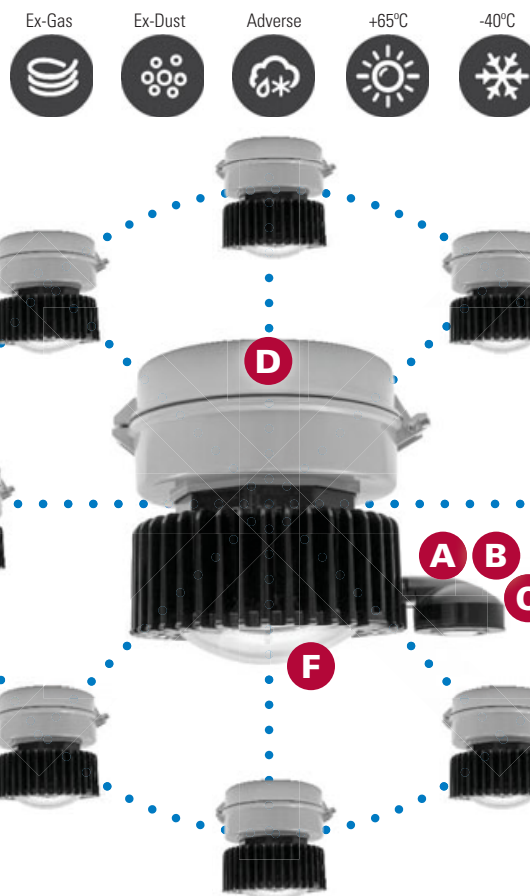
- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2, nA nR
- Class II, Division 1, Groups E, F, G;
Simultaneous Presence; Class III
- Zone 21 tb
- Type 4X, IP66, Wet Locations, Marine Listed
- UL1598; UL1598A; UL8750; UL844; UL60079-0;
UL60079-11; UL60079-15; UL60730; UL913;
UL50; UL50E
- NEC NFPA 70
- R/C for sensor and controller
- cUL Listed to CSA Standard C22.2 No. 250 (for
Luminaires)
- cUL Listed to CSA Standard C22.2 No. 137
(Electric Luminaires for Hazardous Locations)
- CSA 60079-11
- CSA 60079-0
- CE (pending)
- ATEX/IECEx nA, nR, ia (pending)
- DLC (pending)

ELECTRICAL RATINGS

- Voltages: 100-277 VAC; 108-250 VDC
- Input power: 29W, 41W, 54W, 74W, 89W

OPTIONS AND ACCESSORIES

- Pendant, cone pendant, ceiling, wall, and
stanchion mounts
- Trunnion mount kit
- Safety cable
- Diffused lens; Teflon coated lens; Polycarbonate
lens
- Terminal block (TB6) 6-pole

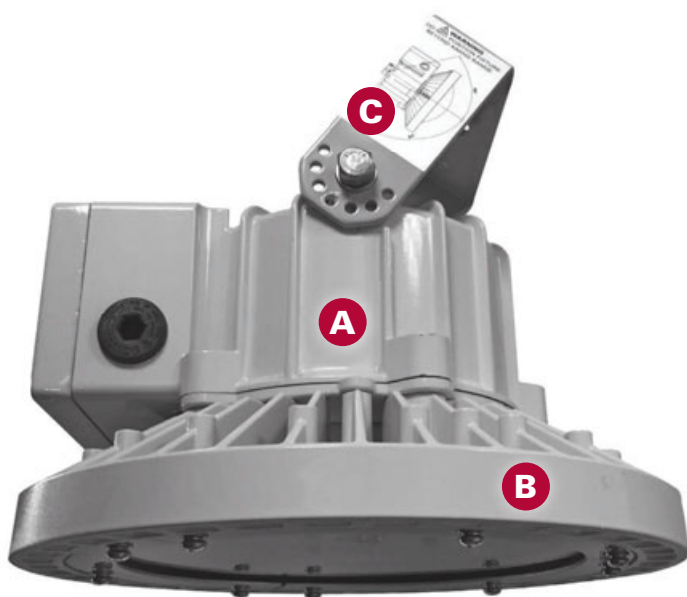


Full lighting control at your fingertips,
allowing you to maximize energy savings
and minimize maintenance costs

DESIGN FEATURES

- A Integral sensor** - Detects and measures area occupancy, lighting levels and ambient temperatures. Up to 40 ft. sensor range provides excellent coverage.
- B Occupancy sensing** - Motion sensing to monitor occupancy of a site or for control of infrequently used areas.
- C Daylight harvesting** - Photo sensing measures ambient light levels and adjusts light output accordingly, saving energy and extending fixture life.
- D Scheduled ON/OFF and Dimming** - Management of time scheduling to optimize energy usage installations.
- E Fixture grouping** - Tempered and clear glass standard, polycarbonate and diffused glass options available.
- F Integral controller** - Send commands to multiple fixtures to control lighting levels per predefined settings. Also communicates system notifications/alarms on the fixture, sensor and radio.





Low profile and lightweight design, easy to install and reliable illumination in Zone 2 and 22 areas

DESIGN FEATURES

- A Rugged design** - Highly durable aluminum housing with a tempered and impact resistant glass globe. NLE fixture has an operating temperature range of -40°C to +55°C.
- B Lightweight and compact** - Low profile and lightweight design is ideal for compact installations.
- C Ease of installation** - U-shaped yoke mount provides mounting flexibility - wall, ceiling, pole, etc.



NLE LED light fixtures

PRIMARY APPLICATIONS

Certified for Zone 2 and Zone 22 hazardous areas. Suitable for mid bay and low bay lighting applications in chemical, petrochemical, pharmaceutical, platforms, shipyards, loading docks, wastewater treatment and paper mills.

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
NLE-3L	70W-100W	
NLE-5L	100W-150W	Up to 66% reduction in energy costs
NLE-7L	150W-175W	
NLE-8L	150W-175W	

CERTIFICATIONS & COMPLIANCES

- Ex nR IIC T6/T5 Gc
- Ex tb IIIC T80°C/T100°C Db
- Ex tD A21 IP66 T80°C/T100°C
- EN 55015:2013
- EN 61000-6-4:2007/A1:2011
- EN 61000-3-2:2006/A2:2009
- EN 61000-3-3:2013
- EN 61547:2009
- EN 61000-6-2:2005/AC:2005
- IEC 61000-4-2 ed2.0(2008-12);IEC 61000-4-3 ed3.2 Consol.with am 1&2(2010-04)
- IEC 61000-4-4 ed3.0(2012-04);IEC 61000-4-5 ed2.0 (2005-11);IEC 61000-4-6 ed4.0(2013-10)
- IEC 61000-4-8 ed2.0(2009-09);IEC 61000-4-11 ed2.0 (2004-03)
- IP66

ELECTRICAL RATINGS

- Voltages: 100-240 VAC; 108-250 VDC
- Input power: 30W, 50W, 70W, 80W

OPTIONS AND ACCESSORIES

- Clear or diffused glass lens
- Warm white (3000K) and cool white (5700K) color temperatures

Champ™ MLL linear LED light fixtures

PRIMARY APPLICATIONS

Oil and gas refineries, petrochemical facilities, food and beverage facilities, platforms, loading docks, tunnels outdoor and stanchion mounted general area lighting, and where flammable vapors, gases, ignitable dusts, fibers or flyings are present.

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
VMV3L	70W-100W	Up to 77% more efficient than standard LED light fixtures!
VMV5L	100W-150W	
VMV7L	150W-175W	
VMV9L	250W-320WW	
VMV11L	320W-400W	

CERTIFICATIONS & COMPLIANCES

- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2
- Class II, Division 1, Groups F, G
- UL844; UL1598; UL1598A; UL924
- CSA C22.2 No. 137
- NEMA 4X, IP66, Marine and Wet Locations
- DesignLights Consortium® approved for select models*
- ABS design assessed

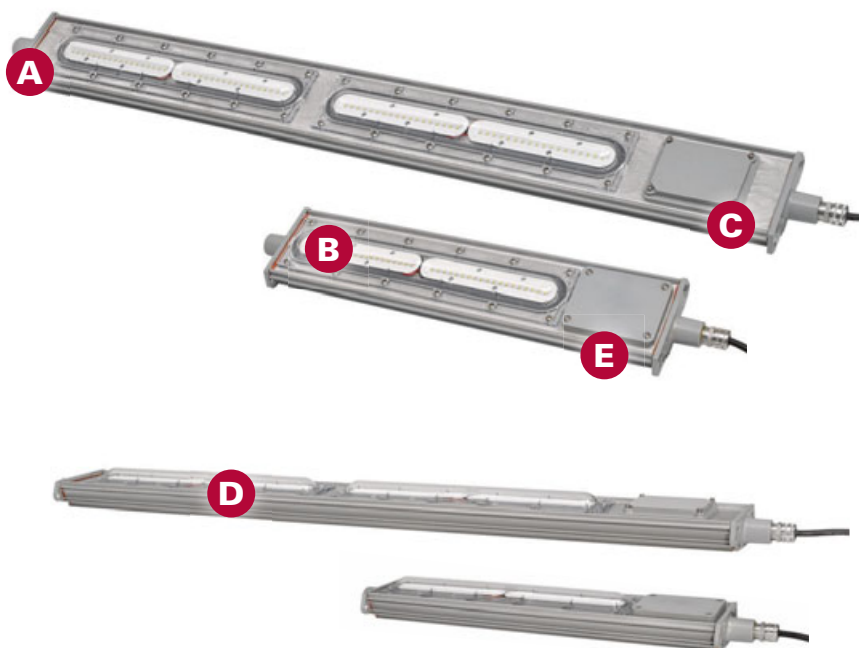
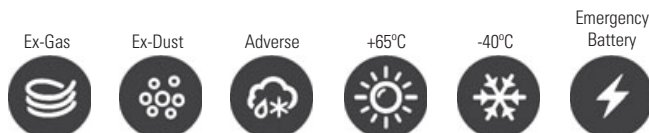


ELECTRICAL RATINGS

- Voltage: 100-277 VAC, 347-480 VAC, 108-250 VDC
- Input power: 29W, 55W

OPTIONS AND ACCESSORIES

- Diffused glass or polycarbonate lens
- Flush/back, ceiling/swivel, wall, offset wall, pole and pendant mounts
- Safety chain kit
- Epoxy painted or natural aluminum finish



Up to 67% more energy efficient than a T5HO fluorescent light and 8 times the rated life

DESIGN FEATURES

- A Best-in-class efficacy** - Up to 130 lumens per watt.
- B Custom optics** - Standard wide (120°) and narrow (80°) beam pattern for a wide variety of general and targeted applications.
- C Built to last** - Passed 2,000 psi high pressure hose test; passed 5G vibration test; 60,000 hour lifetime @ 55°C ambient.
- D Slim profile** - 2.7" fixture height (excluding mounting brackets), perfect for mounting in confined or low height areas.
- E Quick & easy installation** - Easy access to drivers and wiring; no custom brackets or hardware needed; Seven mounting options available.



* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.



Pauluhn™ Summit LED linear light fixtures

PRIMARY APPLICATIONS

Replaces fluorescent T12, T8, and T5HO fixtures in hazardous rated food processing, hose down and corrosive environments.

The Summit LED was designed with food and beverage processing facilities in mind. The fixture housing is angled to mitigate debris build-up and features a food-rated epoxy powder coat finish. Plus, its robust design can withstand 1,500 PSI hose pressure for wash down applications.

LUMINAIRE MODELS

Model number	Equivalent luminaire	Typical energy savings/lifetime
SUM13L	3 lamp T5HO	Up to 50% reduction in energy costs and minimum 60,000 hours of continuous operation!
SUM17L	4 lamp T5HO	
SUM25L	6 lamp T5HO	

CERTIFICATIONS & COMPLIANCES

- Class I, Division 2, Groups A, B, C, D
- Class II, Division 1, Groups E, F, G
- UL1598; UL8750, UL844
- CSA 22.2 No. 137
- NSF Splash Zone
- Type 4X; IP66

ELECTRICAL RATINGS

- Voltages: 100-277 VAC/347-480 VAC, 127-250 VDC
- Input power: 122W, 144W, 217W

OPTIONS AND ACCESSORIES

- Polycarbonate lens in clear or diffused
- 0-10V dimming capabilities
- Surface/swivel mount, cable/chain mount and threaded rod mount
- Available with cord assemblies and quick disconnect receptacle



NSF Splash Zone rated, 1500 PSI hose down tested and an angled housing to mitigate debris build-up

DESIGN FEATURES

- A Innovative and robust design** - Angled light fixture mitigates debris build-up. Withstands 1500 psi high pressure wash down, and food rated paint maintains safety.
- B High performance optics and drivers** - 100+ lumens per watt provides highly efficient lighting. Rated life is up to 60,000 hours of maintenance-free and safe operation.
- C Easily customized for application-specific performance** - Versatile mounting options with a through feed design for simplified multiple fixture wiring.



CEAG™ nLLK15 LED linear light fixtures

PRIMARY APPLICATIONS

Long-life LED tubes provide general illumination, indoors or out, in Zone 2 and 22 hazardous environments around the globe. Heavy duty, non-metallic construction stands up to tough physical and environmental demands, making it an excellent choice where dust, dirt, gas, vapor, smoke, fumes, moisture, corrosive and wet conditions are present.

LUMINAIRE MODELS

Model number	Equivalent fluorescent luminaire	Typical energy savings/lifetime
nLLK15 LED 600	2 x 18W	Up to 77% more efficient than standard LED light fixtures!
nLLK15 LED 1200	2 x 36W	
nLLK15 LED 1500	2 x 58W	

CERTIFICATIONS & COMPLIANCES

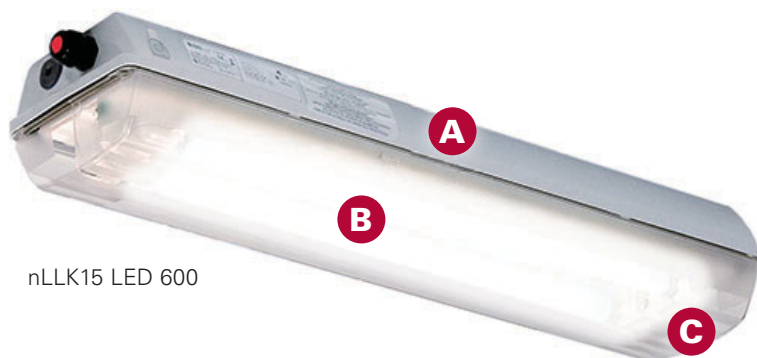
- Ex II 3 G Ex ec IIC T4 Gc
- Ex II 3 D Ex tc IIIC T80°C Dc
- EC-Declaration of Conformity: CCH 15 ATEX 1044
- IP66

ELECTRICAL RATINGS

- Voltage: 220-240 VAC/DC
- Input power: 18W, 37W, 49W

OPTIONS AND ACCESSORIES

- Available with safety switch on request
- Self-contained battery version available
- Connection to CEAG emergency light monitoring systems possible (V-CG-S)
- Light controlling via DALI interface (DALI option)



nLLK15 LED 600



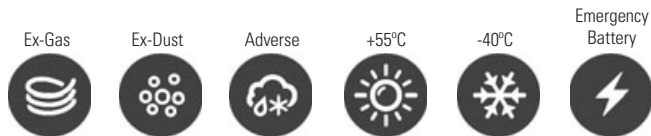
nLLK15 LED 1200 and 1500

Crisp, bright light and durability in harsh environments provides a long-life solution in Zone 2 and 22 areas

DESIGN FEATURES

- A Built to last** - Heavy duty, non-metallic construction stands up to tough physical and environmental demands, making it an excellent choice where dust, dirt, gas, vapor, smoke, fumes, moisture, corrosive and wet conditions are present.
- B High output** - Utilizes Aura UltiLED LED tubes for extreme applications, providing high efficacy and long life.
- C Emergency** - Available with a self-contained battery system or V-CG-S module for monitoring with an Eaton central battery system.





Rugged, low profile fixture that is easy to install and provides clear illumination in Zone 2 and 22 hazardous areas

DESIGN FEATURES

- A Rugged design** - Copper-free aluminum housing and impact-resistant polycarbonate lens provide excellent resistance to corrosion and heat.
- B Easy installation** - Lightweight design, hinged cover, and a terminal block wing for easy installation and maintenance.
- C Industry leading thermal management** - For safe and reliable operation over a wide temperature range.
- D Retrofit friendly** - Fixture utilizes the same mounting footprint of linear fluorescent lighting.



nHLL LED linear light fixtures

PRIMARY APPLICATIONS

Constructed with an aluminum housing and high impact-resistant polycarbonate cover for use in Zone 2 and 22 hazardous areas where moisture or corrosion may be a problem, such as offshore oil platforms, pharmaceutical and chemical plants, oil refineries and industrial locations.

LUMINAIRE MODELS

Model number	Equivalent luminaire	Typical energy savings/lifetime
NLLE-2-C2-3L	2x18W	Up to 72% reduction in energy costs and 50,000 hours of continuous operation!
NLLE-2-C2-4L	2x36W	
NLLE-4-C2-5L	2x36W	
NLLE-4-C2-8L	2x58W	

CERTIFICATIONS & COMPLIANCES

- Ex db ec IIC T5/T6 Gc
- Ex ec IIC T5/T6 Gc
- Ex db ec ib mb IIC T5/T6 Gc
- Ex ec ib mb IIC T5/T6 Gc
- Ex tb IIIC T80°C Db
- IECEx-certification of conformity: IECEx NEP 18.0003X
- EC-Type examination certificate: SEV 18 ATEX 0171X
- IP66

ELECTRICAL RATINGS

- Voltages: 100-240 VAC
- Input power: 30W, 40W, 60W, 80W

OPTIONS AND ACCESSORIES

- Epoxy coating on aluminum housing
- Emergency battery back-up
- Pipe, wall, and ceiling mounts available

Vaporgard™ LED luminaires

PRIMARY APPLICATIONS

Indoor or outdoor areas with low mounting heights or confined spaces, such as tunnels and catwalks, over doorways or entries, landing areas, utility rooms, etc.

LUMINAIRE MODEL

Model number	Equivalent luminaire	Typical energy savings/lifetime
V2LM2	50W HID or 150-200W incandescent	Up to 85% reduction in energy costs and 50,000 hours of continuous operation!
V3LM2		

CERTIFICATIONS & COMPLIANCES

- Class I, Division 2, Groups A, B, C, D
- Class II, Division 1, Groups F, G
- UL844; UL1598; UL1598A
- CSA C22.2 No. 137
- NEMA 4X
- UL1598; UL1598A
- IP66
- RoHS Compliant
- ATEX/IECEX Zone2/22
- DesignLights Consortium® approved for select models*



ELECTRICAL RATINGS

- Voltages: 120-277 VAC, 12-24 VDC
- Input power: 14W, 29W

OPTIONS AND ACCESSORIES

- Frosted lens
- Teflon coated lens
- Brazil (CEPEL) Certification
- Color temperature: Warm white (3000K)
- 12-24 VDC Driver



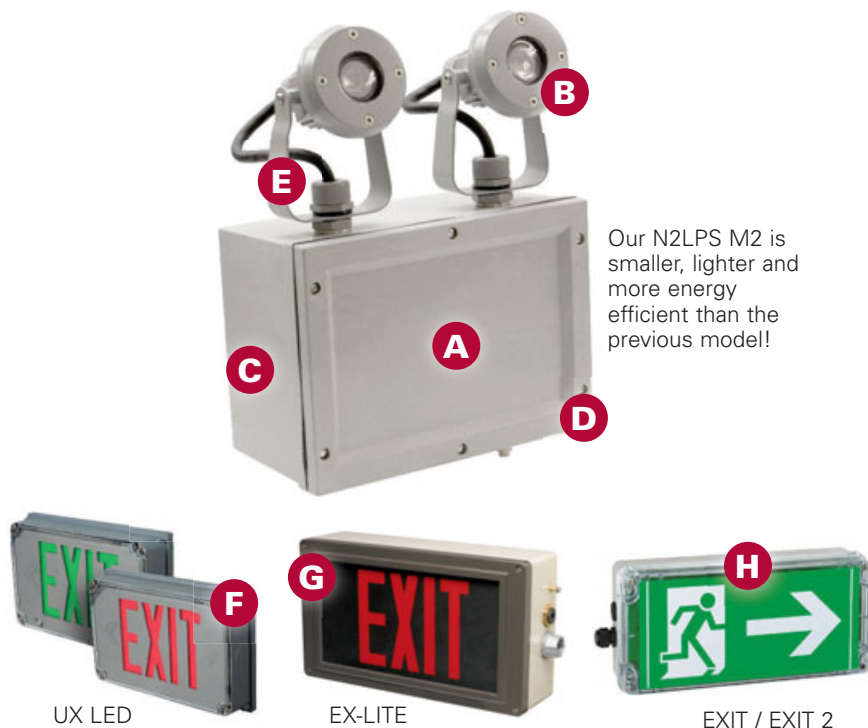
85% more energy-efficient than a 200 watt incandescent and over 20 times the rated life

DESIGN FEATURES

- A Domeless reflector, low profile design** - Designed for low mounting heights and confined spaces where incandescent and HID based luminaires are too large.
- B Installation and replacement made simple** - Installed using the same mounting modules as existing Eaton's Crouse-Hinds Vaporgard™ fixtures.
- C Safe, reliable heat transfer** - Heat sink engineered to safely and effectively remove heat from the LED and driver, ensuring long product life and superior T-ratings.
- D High power multi-die LED arrays** - Provides instant on and full illumination in the harshest conditions, even when exposed to high, repeated vibration.



* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.



Our N2LPS M2 is smaller, lighter and more energy efficient than the previous model!

LED egress, emergency and exit lighting designed for harsh and hazardous locations

N2LPS M2 DESIGN FEATURES

- A Non-metallic, enclosed, gasketed housing** - Provides corrosion protection in the most extreme environments.
- B Durable and marine rated LED lamp head assemblies** - Provide protection against water ingress, corrosion and impact.
- C Nickel cadmium battery** - High temperature rated nickel cadmium battery for reliable operation up to 55°C ambient.
- D Reduced maintenance costs** - Self-test, monitoring and diagnostics reduce costly maintenance checks.
- E Remote mountable lamp heads** - Lamp heads can be mounted independently from the enclosure, allowing you to focus light where you need it.

Exit Lighting DESIGN FEATURES

- F Corrosion- and impact-resistant housing** - Ensures long product life and reliability.
- G Nickel cadmium battery** - Premium heavy duty nickel cadmium battery with 24-hour charge and recharge time increases safety by recovering quickly from an outage.
- H Multiple "EXIT" legend options** - EXIT inscriptions, pictograms, and directional arrows to meet customer preferences.



* Zone ratings vary by product family. Refer to individual catalog pages for complete certifications and compliances.

LED emergency and exit lights

N2LPS M2 Emergency Lighting PRIMARY APPLICATIONS

Used to provide reliable illumination for egress areas during failure or interruption of power to the normal lighting system.

LUMINAIRE MODEL

Model number	Battery life
N2LPSM2	90 minutes

CERTIFICATIONS & COMPLIANCES

- Class I, Division 2, Groups B, C, D
- Class I, Zone 2
- UL844; UL924; UL1598A
- CSA C22.2 No. 141-M1985; C22.2 No. 137-M1981
- Life Safety Code NFPA101® - Section 5-9
- Type 4X, Marine Wet Locations

ELECTRICAL RATINGS

- Power supply input: 102-277VAC; 6W max.
- LED heads: 12VDC, 1W LED, 6W max.

LED Exit Signs

PRIMARY APPLICATIONS

Used for marking escape routes and exits in potentially explosive atmospheres.

LUMINAIRE MODELS

Model Number	Rating	Battery
Ex-Lite	Hazardous	Optional
UX LED	Industrial or Hazardous	Optional
EXIT / EXIT 2	Hazardous	Optional

CERTIFICATIONS & COMPLIANCES

Ex-Lite:

- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 1
- Class II, Division 2, Groups F, G (NEC)
- IP66
- UL844; UL924; UL60079; UL1203

UX LED:

- Class I, Division 2, Groups A, B, C, D
- NEMA 4X, IP66, Outdoor Wet Locations
- UL50; UL844; UL924; UL1598A

EXIT / EXIT 2

- Ex e ib mb IIC T6/T5 Gb; Ex tb IIIC T80°C Db
- IECEx BVS 13.0017
- EC-Type Examination Certificate: BVS 09 ATEX E 029

ELECTRICAL RATINGS

- Please refer to individual catalog pages

CEAG™ PX LED Floodlights

PRIMARY APPLICATIONS

Ideal for ceiling and wall mounted general area lighting where flammable vapors and gases are present, along with harsh conditions including vibration, dust, moisture, corrosive atmospheres and extreme temperatures

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
PXLED5L	100W-150W	Up to 70% reduction in energy costs and 60,000 hours of continuous operation!
PXLED10L	175W-250W	
PXLED15L	400W-500W	
PXLED20L	600W-750W	
PXLED25L	750W-1000W	
PXLED30L	1500W	

CERTIFICATIONS & COMPLIANCES

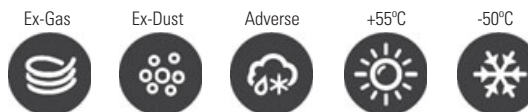
- Ex db eb op is q IIC T4 Gb
- Ex tb op is IIIC T100°C Db
- BVS 17 ATEX E 013 X
- IECEx Certificate of conformity: IECEx BVS 17.0004 X
- IP66/67

ELECTRICAL RATINGS

- Voltages: 110-277 VAC; 127-270 VDC
- Input power: 49W, 98W, 147W, 196W, 245W, 294W

OPTIONS AND ACCESSORIES

- Wide, narrow and asymmetric beam options
- Pole mounting



60,000 hour rated life at 55°C ensures years of reliable performance in hazardous IEC applications

DESIGN FEATURES

- A Modular design** - Provides six models with light output ranging from 5,000 lumens up to 32,000 lumens.
- B High efficiency LEDs** - Delivers up to 110 lm/W, reducing energy costs by up to 70% over conventional lamps.
- C Easy installation and maintenance** - Ex-e compartment provides quick access to the driver and terminals.
- D Simple, flexible alignment** - Stainless steel swivel bracket with adjustable setting angle allows an easy alignment of the floodlight.
- E Custom optics** - Wide and narrow beam pattern options distribute light where you need it most.
- F Built to last** - Designed for offshore and high vibration applications.





Energy-efficient and globally certified explosionproof workhorse for general area and high bay lighting applications

DESIGN FEATURES

- A Retrofittable to install base** - Adapter available for connection to existing Hazard•Gard® EVI, EVLP and EVM modules.
- B Quick-connect design** - Install and wire the mounting module, then simply screw in the luminaire.
- C Factory sealed** - No external sealing fittings required in Groups B, C and D.
- D 60,000 hours rated life** - Eliminates the need for frequent lamp replacement.
- E Shock- and vibration-resistant** - The LED housing is constructed of durable die cast aluminum, providing efficient long life.



Hazard-Gard™ EVLL LED luminaires

PRIMARY APPLICATIONS

Used for general lighting in areas where flammable or explosive vapors or gases are present, such as petroleum refineries, chemical and petrochemical plants, oil terminals, gas plants, drilling platforms and wastewater treatment plants.

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
EVLL5L	100W-150W	Up to 62% reduction in energy costs and 60,000 hours of continuous operation!
EVLL7L	150W-175W	
EVLL9L	175W-250W	
EVLL11L	250W-320W	
EVLL13L	320W-400W	

CERTIFICATIONS & COMPLIANCES

- Class I, Division 1, Groups B, C, D
- Class I, Zone 1, Groups IIB + H₂, IIB, IIA
- Class II, Groups E, F, G
- Class III, Simultaneous Presence
- UL844; UL1598; UL1598A
- CSA C22.2 No. 137
- NEMA 4X, IP66, Wet Locations
- CE
- ATEX/IECEx, Zone 1/21

ELECTRICAL RATINGS

- Voltages: 120-277 VAC/108-250 VDC, 347-480 VAC
- Input power: 56W, 85W, 112W, 115W, 149W

OPTIONS AND ACCESSORIES

- Trunnion mount
- Guard
- Color temperature: warm (3000K) or cool (5000K)
- Pendant, ceiling, stanchion and wall mounts
- Epoxy painted

LPL LED light fixtures

PRIMARY APPLICATIONS

Suitable for Zone 1 and Zone 2 Ex-Gas and Zone 21/22 Ex-Dust hazardous areas, such as heavy industrial, chemical, petrochemical or pharmaceutical facilities, platforms, shipyards, electric power, loading docks, wastewater treatment plants and paper mills.

LUMINAIRE MODELS

Model Number	Equivalent HID Luminaire	Typical Energy Savings/Lifetime
LPL 18-C57-4L	70W-100W	Up to 60% reduction in energy costs
LPL 18-C57-5L	70W-100W	
LPL 18-C57-6L	150W-175W	
LPL 18-C57-7L	150W-175W	
LPL 18-C57-9L	175W	
LPL 18-C57-10L	250W	
LPL 18-C57-12L	250W-400W	
LPL 18-C57-14L	400W	

CERTIFICATIONS & COMPLIANCES

- Ex db eb IIC T6/T5 Gb
- Ex tb IIIC T80°C/T95 C Db

Ambient temperature

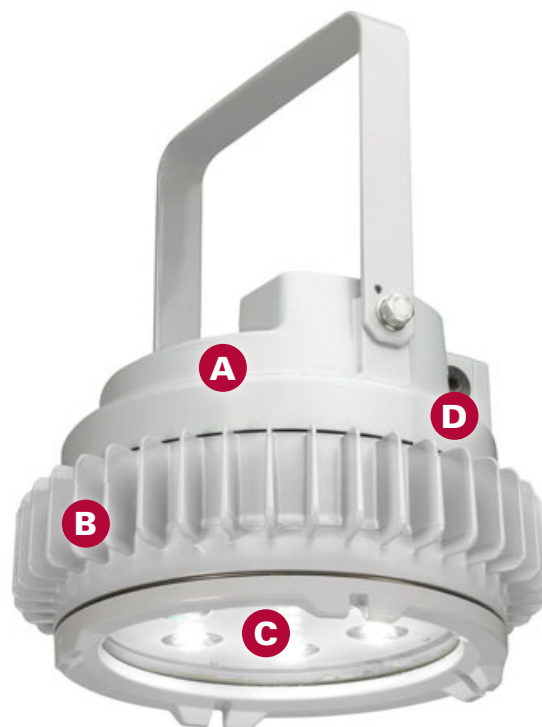
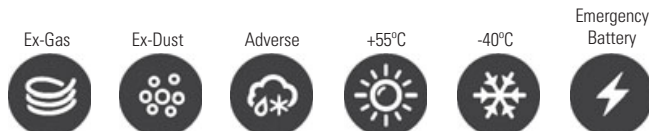
- Non-EM: -40°C to +40°C/45°C/55°C
- EM: -40°C to +45°C/55° C

ELECTRICAL RATINGS

- Voltage: Non-EM: 100-277 VAC 50/60Hz, 127-250 VDC. EM: 100-240 VAC 50/60Hz, 127-250 VDC

OPTIONS AND ACCESSORIES

- Cold white (5,700K) and warm white (3,000K) are available
- Mounting: Pipe mounting and "U" shape bracket available

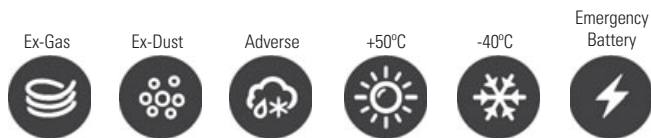


A long-life, energy-efficient luminaire for general area lighting in hazardous IEC applications

DESIGN FEATURES

- A Robust construction** - This corrosion-proof fixture offers high quality, shock- and vibration-resistant LEDs, copper-free aluminum housing and an impact-resistant glass globe.
- B Excellent thermal management** - Innovative heatsink ensures long life in extreme environments.
- C Lead-free and environmentally-friendly.**
- D Emergency** - Available with a self-contained battery system for emergency power loss applications.





HPL LED light fixtures

PRIMARY APPLICATIONS

Certified for Zone 1, 2, 21 and 22 hazardous areas. Suitable for mid bay and low bay lighting applications in chemical, petrochemical, pharmaceutical, platforms, shipyards, loading docks, wastewater treatment and paper mills.

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
HPL-3L	70W-100W	
HPL-5L	100W-150W	Up to 66% reduction in energy costs
HPL-7L	150W-175W	
HPL-8L	150W-175W	

CERTIFICATIONS & COMPLIANCES

- Ex db e mb IIC T6 Gb
- Ex tb IIIC T80°C Db IP66
- Ex tD A21 IP66 T80°C
- IECEx-Certification of Conformity: IECEx CQM 15.0054X
- EC-Type Examination Certificate: EPT 16 ATEX 2405X
- GB Certificate: GYJ15.1157X
- IP66

ELECTRICAL RATINGS

- Voltages: 100-247 VAC; 108-250 VDC
- Input power: 30W, 50W, 70W, 80W

OPTIONS AND ACCESSORIES

- Clear or diffused glass lens
- Warm white (3000K) and cool white (5700K) color temperatures
- Emergency back-up battery available



Energy-efficient and globally certified explosionproof workhorse for general area and low/mid bay lighting applications

DESIGN FEATURES

- A Rugged design** - Highly durable aluminum housing with a tempered and impact resistant glass globe. HPL fixture has an operating temperature range of -40°C to +50°C.
- B Lightweight and compact** - Low profile and lightweight design is ideal for compact installations.
- C Ease of installation** - U-shaped yoke mount provides mounting flexibility - wall, ceiling, pole, etc.



Hazard•Gard™ XPL linear LED luminaires

PRIMARY APPLICATIONS

Ideal for Class I, Division 1 and Class II, Division 1 areas in wastewater treatment, oil and gas refineries, drilling rigs, petrochemical facilities, food and beverage facilities, tunnels, outdoor wall and stanchion mounted general area lighting, and where flammable vapors, gases, ignitable dusts, fibers or flyings are present.

LUMINAIRE MODELS

Model number	Equivalent fluorescent luminaire	Typical energy savings/lifetime
XPL2	2 x 2 ft. T5/T8/T12HO	Up to 53% reduction in energy costs and 60,000 hours of continuous operation!
XPL4	2 x 4 ft. T5/T8/T12HO	

CERTIFICATIONS & COMPLIANCES

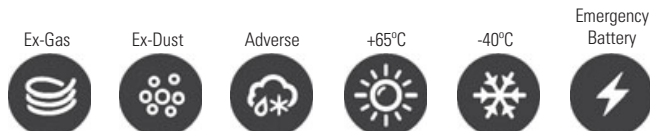
- Class I, Division 1, Groups C, D
- Class II, Division 1, Groups E, F, G
- Class III
- UL844; UL1598; UL1598A
- CSA C22.2 No. 137
- NEMA 4X, IP66, Marine and Wet Locations, Paint spray rated

ELECTRICAL RATINGS

- Voltage: 100-277 VAC/108-250 VDC, 347-480 VAC
- Input power: 34W, 63W, 78W (EM model)

OPTIONS AND ACCESSORIES

- Glass or diffused glass lens
- Epoxy paint finish
- Flush, pole and swivel/surface mounts
- Polycarbonate paint spray lens shield kit
- Safety chain kit



XPL with emergency battery

Up to 53% more energy efficient than a T5HO fluorescent light and 8 times the rated life

DESIGN FEATURES

- A High efficacy** - Up to 130 lumens per watt.
- B Custom optics** - Standard wide (120°) beam spread maximizes illumination on wall panels.
- C Built to last** - 2,000 psi high pressure hose down rated; passed 5G vibration test; 60,000 hour lifetime @ 55°C ambient.
- D Slim profile** - Less than 5" fixture height (excluding mounting brackets), perfect for mounting in confined or low height areas.
- E Quick & easy installation** - Easy access to drivers and wiring; no custom brackets or hardware needed; Two mounting options available.
- F Emergency battery back-up** - 90-minute minimum run time at 700 lumens in emergency mode.





CEAG™ ExLin LED linear light fixtures

PRIMARY APPLICATIONS

Approved for use in Zone 1 and 2 hazardous areas, ExLin provides longer life, improved efficiency and superior performance with a competitive payback versus fluorescent fixtures. Designed to provide general illumination where moisture, dust, corrosion and extreme temperature exist.

LUMINAIRE MODELS

Model number	Equivalent fluorescent luminaire	Typical energy savings/lifetime
ExLin 3L-1	2 x 18W	Up to 40% reduction in energy costs and a rated life of 100,000 hours at 25°C
ExLin 5L-1	2 x 36W	
ExLin 7L-2	2 x 58W	

CERTIFICATIONS & COMPLIANCES

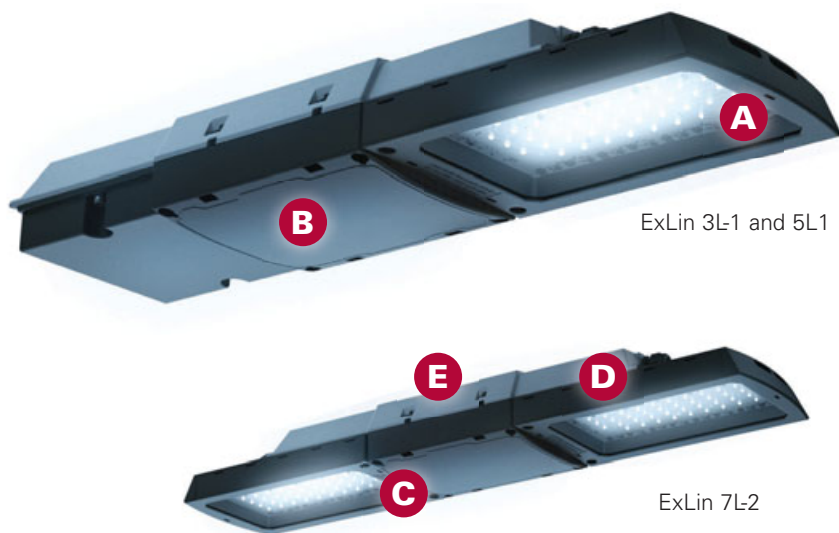
- Ex II 2 G Ex eb ib op is q IIC T4 Gb
- Ex eb ib op is q IIC T4 Gb
- IECEx-Certification of Conformity: IECEx BVS 18.0028X
- EC-Type Examination Certificate: BVS 18 ATEX E 037 X
- IP66/67

ELECTRICAL RATINGS

- Voltages: 110-277 VAC/DC
- Input power: 22W, 44W, 67W

OPTIONS AND ACCESSORIES

- Clear or diffused lens
- Standard, narrow, and wide beam options
- Pole adapter



ExLin 3L-1 and 5L1

ExLin 7L-2

State-of-the-art LED technology with optimized thermal management and a time-tested, field-proven enclosure

DESIGN FEATURES

- A Superior performance and efficiency** - Up to 120 LM/W provides up to 40% energy efficiency compared to traditional fluorescent fixtures.
- B Built to last** - Rated life of 100,000 hours at 25°C based on L90C5 provides long term, low-maintenance operation.
- C Optimized light distribution** - Standard, narrow and wide beam optics optimise light distribution, providing light where the customer needs it with the potential to reduce the number of fixtures required.
- D Low profile and lightweight** - Decreases footprint in confined applications and reduces installation effort while still providing IK10.
- E Drop-in mounting capability to eLLK fluorescent** - Same fixing point as eLLK 2x18W fixtures and a mounting kit is available allowing for easy replacement of 2x36W and 2x58W without changing cables.





CEAG™ eLLK LED linear light fixtures

PRIMARY APPLICATIONS

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

LUMINAIRE MODELS

Model number	Equivalent luminaire	Battery	Typical energy savings/lifetime
eLLK LED 400A	2x18W fluorescent	No	Up to 20% reduction in energy costs and 60,000 hours of continuous operation!
eLLK LED 800A	2x36W fluorescent	No	
eLLK LED 400A NE	2x18W fluorescent	Yes	
eLLK LED 800A NE	2x36W fluorescent	Yes	

CERTIFICATIONS & COMPLIANCES

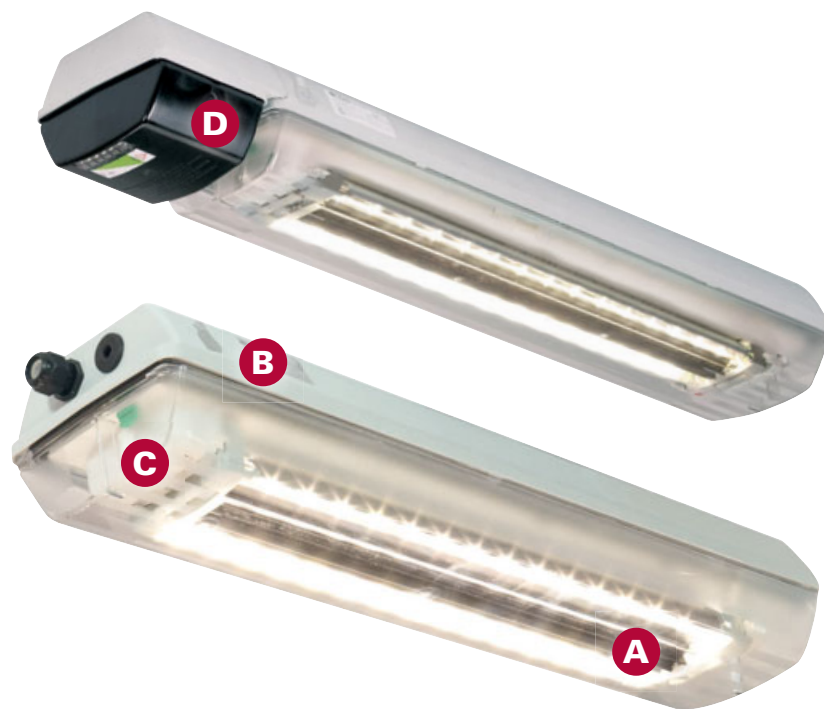
- II 2G Ex de mb IIC T4 Gb
- II 2D Ex tb IIIC T80 °C Db IP66
- BVS 09 ATEX E 034
- Ex de mb IIC T4 Gb/Ex tb IIIC T80 °C
- IECEx BVS 09.0033

ELECTRICAL RATINGS

- Voltages: 110-254 VAC, 110-250 VDC; 50/60 Hz
- Input power: 2x13W, 2x26W

OPTIONS AND ACCESSORIES

- LED module 400A (2x13W) for eLLK/M 92 018/18
- LED module 800A (2x26W) for eLLK/M 92 036/36
- Self contained battery system (NE models)
- Available with V-CG-S module for monitoring with an Eaton central battery system

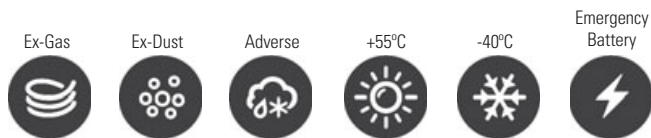


Saves on energy consumption and easily retrofit existing luminaires in hazardous and corrosive environments

DESIGN FEATURES

- A High output** - Illuminance (lux/Fc) equivalent to related fluorescent tubes at measurement plane.
- B Non-metallic design** - Fiberglass-reinforced polyester construction for extreme durability.
- C Retrofit friendly** - Retrofits to existing eLLK/nLLK fixtures with existing EVG 09 ballast or as a complete unit.
- D Emergency** - eLLK NE models include a 7 Ah-NC battery with LED display and monitoring via microprocessor. Provides 1.5 or 3 hours of emergency lighting.





CEAG™ HLL LED linear light fixtures

PRIMARY APPLICATIONS

Constructed with an aluminum housing and high impact-resistant polycarbonate cover, providing extreme durability and reliability in Zone 1, 2, 21 and 22 hazardous areas. Designed for use in hazardous areas where moisture or corrosion may be a problem, such as offshore oil platforms, pharmaceutical and chemical plants, oil refineries and industrial locations.

LUMINAIRE MODELS

Model number	Equivalent luminaire	Typical energy savings/lifetime
HLL-2-2L	2x18W	Up to 72% reduction in energy costs and 50,000 hours of continuous operation!
HLL-2-3L	2x36W	
HLL-4-4L	2x36W	
HLL-4-5L	2x58W	

CERTIFICATIONS & COMPLIANCES

- Ex db ec IIC T5/T6 Gc
- Ex ec IIC T5/T6 Gc
- Ex db ec ib mb IIC T5/T6 Gc
- Ex ec ib mb IIC T5/T6 Gc
- Ex tb IIIC T80°C Db
- IECEx-certification of conformity: IECEx CQM 16.0030X
- EC-Type examination certificate: CML 17ATEX3305X
- IP66

ELECTRICAL RATINGS

- Voltages: 100-240 VAC, 108-250 VDC
- Input power: 30W, 40W, 60W, 80W

OPTIONS AND ACCESSORIES

- Epoxy coating on aluminum housing
- Emergency battery back-up
- Pipe, wall, and ceiling mounts available



Rugged, low profile fixture that is easy to install and provides clear illumination in Zone 1, 2, 21 and 22 hazardous areas

DESIGN FEATURES

- A Rugged design** - Copper-free aluminum housing and impact-resistant polycarbonate lens provide excellent resistance to corrosion and heat.
- B Easy installation** - Lightweight design, hinged cover, and a terminal block wing for easy installation and maintenance.
- C Industry leading thermal management** - For safe and reliable operation over a wide temperature range.
- D Retrofit friendly** - Fixture utilizes the same mounting footprint of linear fluorescent lighting.



Hazard-Gard™ EV LED light fixtures

PRIMARY APPLICATIONS

Indoors or outdoors in process and storage areas, corridors, bridges and stairs.

LUMINAIRE MODELS

Model number	Equivalent luminaire	Typical energy savings/lifetime
EVLEDC201	100W-200W incandescent	Up to 85% reduction in energy costs and 50,000 hours of continuous operation!
EVLEDC701	70W-100W HID	

CERTIFICATIONS & COMPLIANCES

- Class I, Division 1, Groups C, D
- Class I, Zone 1 & 2, Group IIB
- Class II, Division 1, Groups E, F, G
- Class III; Simultaneous Presence
- UL844; UL1598; UL1598A
- CSA C22.2 No. 137
- Type 4X, IP66

ELECTRICAL RATINGS

- Voltages: 100-277 VAC, 10-30 VDC
- Input power: 15W, 30W

OPTIONS AND ACCESSORIES

- Amber color for wildlife-friendly applications
- Color temperature: cool white (3000K) and warm white (5600K)
- 24-27 VDC



Up to 85% reduction in energy costs and 50,000 hours of continuous operation

DESIGN FEATURES

- A Retrofittable mounting modules** - Compatible with existing EV Series mounting modules, which reduces retrofit installation time and materials costs, and makes new construction installation easy.
- B 20 times longer life than incandescents in tough-to-maintain Division 1 locations.**





AB05 LED marine wallpack

PRIMARY APPLICATIONS

Perfect for confined or restricted spaces, such as stairwells, storage areas and corridors that require consistent light.

LUMINAIRE MODELS

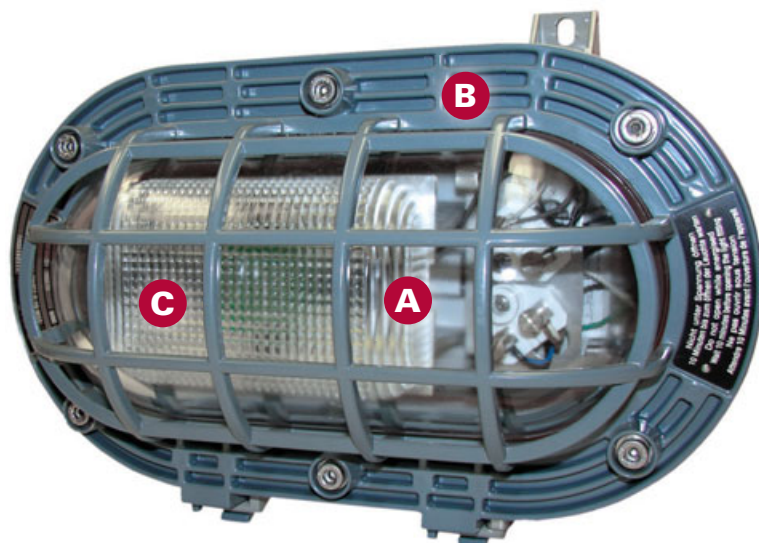
Model number	Equivalent luminaire	Typical energy savings/lifetime
AB05	150W incandescent	Up to 80%
60,000 hours of continuous operation!		

CERTIFICATIONS & COMPLIANCES

- Zone 1, 2, 21, 22
- Ex d IIB T6
- Ex II 2 G Ex d IIB T6/T5 Gb
- Ex II 2 D Ex tb IIIC T80°C/T100°C Db
- Certificate BVS 09 ATEX E 014 X
- IP66

ELECTRICAL RATINGS

- Voltage: 120-240 VAC
- Input power: 32W



Up to 6 times longer life and 65% reduction in power consumption compared to equivalent HID floodlights

DESIGN FEATURES

- A Shock- and vibration-resistant** - Durable vibration-resistant LEDs decrease maintenance costs.
- B Lightweight enclosure** - Robust light alloy enclosure weighs only 7.0 kg, allowing the user to mount in areas where the available space is restricted, and making installation fast and easy.
- C Instant illumination and restrike** - Decreases facility downtime; no warm-up time required.



Champ™ Pro PFM LED floodlights

PRIMARY APPLICATIONS

Indoor and outdoor area lighting in manufacturing plants, mine sites and processing areas, platforms, loading docks and parking areas.

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
PFM3L	70W	Up to 78% reduction in energy costs and 60,000 hours of continuous operation!
PFM5L	100W-150W	
PFM7L	150W-175W	
PFM9L	175W-250W	
PFM11L	250W-400W	
PFM13L	400W	
PFM15L	400W-500W	
PFMA20L	600W-750W	
PFMA25L	750W-1000W	
PFMA40L	1,500W+	
PFMA50L	1,500W+	

CERTIFICATIONS & COMPLIANCES

- UL1598; UL1598A; UL8750
- cUL
- Type 4X
- IP66
- DesignLights Consortium® approved for select models*
- UL approved up to 65°C ambient (3L-15L)
- cUL Listed to CSA Standard CSA C22.2 No. 250
- IEC Standards: IEC 60598; CE

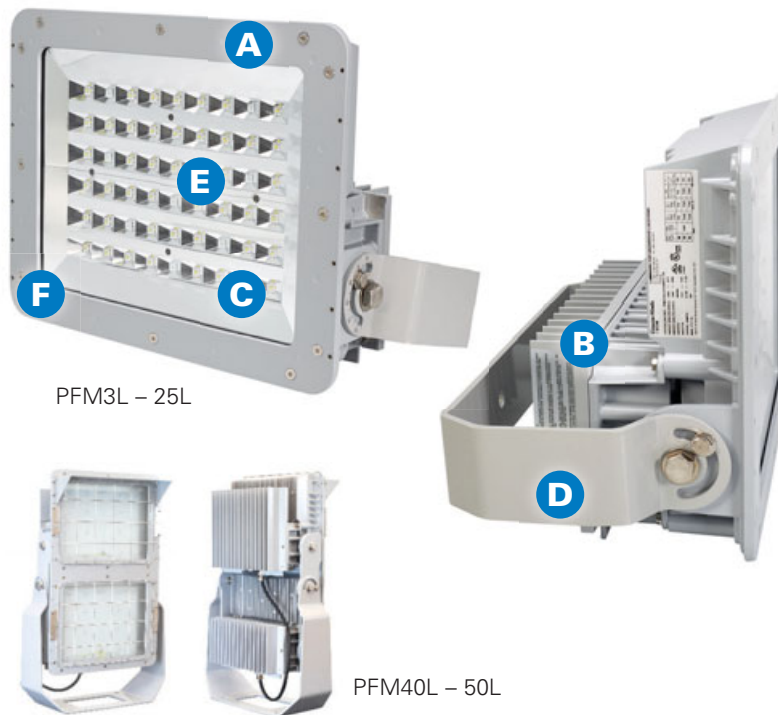


ELECTRICAL RATINGS

- Voltages: 100-277 VAC, 347-480 VAC, 108-250 VDC
- Input power: 28W, 45W, 62W, 79W, 99W, 112W, 131W, 175W, 216W, 340W, 411W

OPTIONS AND ACCESSORIES

- Bolt-on visor and Bolt-on wire guard
- Floodlight slipfitter (not available on 40L & 50L)
- Slipfitter wall mount adapter (not available on 40L & 50L)
- Polycarbonate lens
- Diffused glass lens
- Dimmable driver (NEC only)
- 3x3 optic (select models)



Up to 6 times longer life and 78% reduction in power consumption compared to equivalent HID floodlights

DESIGN FEATURES

- A Versatile design** - Can be used for outdoor or indoor applications, and for a wide range of mounting heights depending on model and light level requirement.
- B Rugged heat sink** - Designed to perform in high ambient temperatures up to +65°C and as low as -40°C. The thick walls of the castings make for a tough, rugged housing that keeps the internal driver and LED temperatures down.
- C High lumen output** - Up to 120 lumens per watt.
- D Full-frame yoke** - Designed to utilize the SFA6 slipfitter and SWB6 wall mount bracket, making it ideal for retrofit or new installations.
- E Multiple lens options** - Tempered and clear glass standard, polycarbonate and diffused glass options available.
- F Smaller and lighter** - 25% smaller and 10 lbs (4.5 kg) lighter than previous model (3L-25L models).



* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.



PVM3L – 11L



PVM13L and 17L



PVM21L and 25L

Custom Type I, III and V optics for better output, zero maintenance and reduced energy consumption

DESIGN FEATURES

- A Modular design** - This contractor-friendly design is ideal for both retrofit and new construction applications.
- B Safe, reliable heat transfer** - Die cast aluminum housing provides safe and effective heat transfer from the LED assembly to the outside environment, ensuring low LED junction temperature, reliability and sustained lumen performance.
- C High efficiency drivers** - Designed to provide reliable operation in even the harshest environments.
- D Type 4X rated** - The LED housing is constructed of durable die cast aluminum, providing an efficient thermal path to the heat sink assembly. The impact-resistant lens is sealed from the outside environment and provides ingress protection against water and dust.
- E Custom optics** - Type I, III and V optics designed to maximize light distribution and intensity.
- F Lever-lock connectors and 3-pole terminal block.**



* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

Champ™ Pro PVM LED light fixtures

PRIMARY APPLICATIONS

Locations requiring continuous and consistent light levels in extreme ambient temperatures, such as manufacturing plants, mine sites, heavy industrial or petrochemical facilities, food and beverage facilities, marine environments, platforms, loading docks, tunnels, outdoor wall and stanchion mounted general area lighting.

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
PVM3L	70W-100W	Up to 77% reduction in energy costs and 60,000 hours of continuous operation!
PVM5L	100W-150W	
PVM7L	150W-175W	
PVM9L	250W-320W	
PVM11L	320W-400W	
PVM13L	400W	
PVM17L	400W-600W	
PVM21L	600W-750W	
PVM25L	750W-1,000W	

CERTIFICATIONS & COMPLIANCES

- UL1598; UL1598A
- cUL
- NEMA 4X, IP66, Wet Locations
- DesignLights Consortium® approved for select models*
- cUL Listed to CSA Standard CSA C22.2 No. 250
- IEC standard: CE
- UL approved up to 65°C ambient (3L-11L UNV1; all other models 55°C)



ELECTRICAL RATINGS

- Voltages: 120-277 VAC/108-250 VDC, 347/480 VAC
- Input power: 29W, 41W, 54W, 74W, 89W, 130W, 168W, 196W, 232W

OPTIONS AND ACCESSORIES

- Quick clip
- Diffused lens
- Teflon coated lens
- Polycarbonate lens
- Wire guard
- Trunnion mount
- Cone top hat
- Occupancy sensor and remote

Champ™ Pro PVMA LED light fixtures

PRIMARY APPLICATIONS

Ideal for a variety of non-hazardous medium or heavy-duty applications such as mining, marine, food processing, pulp and paper, wastewater treatment, power generation, and general industrial manufacturing areas.

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
PVMA5L	150W	Up to 77% reduction in energy costs and 60,000 hours of continuous operation!
PVMA7.5L	175W	

CERTIFICATIONS & COMPLIANCES

- UL1598; UL1598A
- CSA C22.2 No. 250
- IP66, Wet Locations
- RoHS
- IEC Standards: IEC 60598; CE
- DesignLights Consortium® approved for select models*

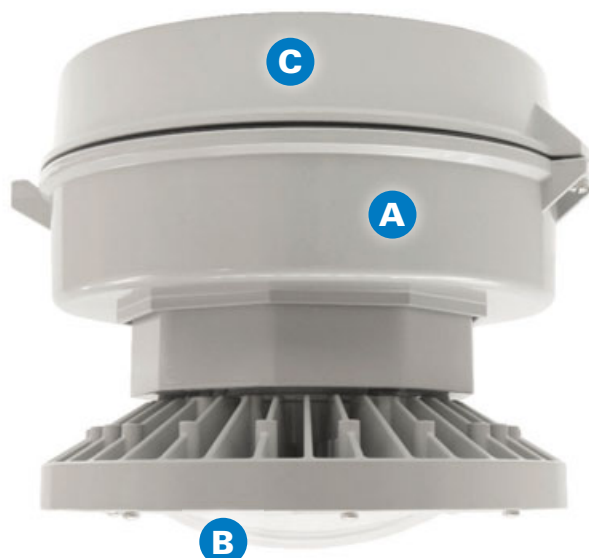


ELECTRICAL RATINGS

- Voltage: 100-277 VAC, 347-480 VAC, 127-300 VDC
- Input power: 48W, 64W

OPTIONS AND ACCESSORIES

- Ceiling, pendant, cone pendant, wall, and trunnion mounts
- Safety cable
- Quick clip



Smaller footprint, lightweight design, and maintenance-free illumination in demanding environments

DESIGN FEATURES

- A Rugged design** - Engineered for durability in complex environments.
- B High efficiency** - Up to 122 LPW and custom optics to maximize light on the work plane.
- C Ease of installation** - Compact footprint with ceiling, pendant, wall or stanchion mount options and the ability to retrofit Crouse installed base.

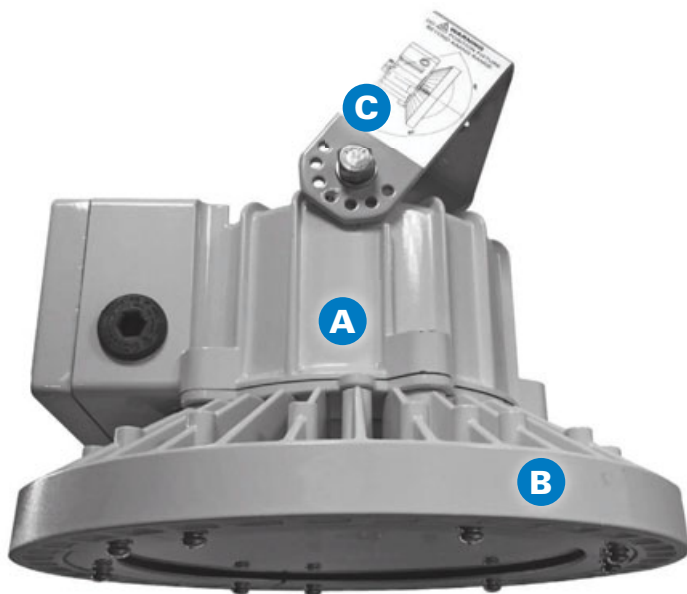
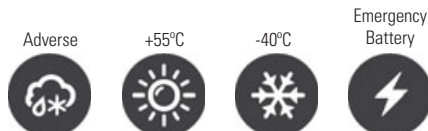


NEC



CEC

* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.



Low profile and lightweight design, easy to install and reliable illumination is demanding environments

DESIGN FEATURES

- A Rugged design** - Highly durable aluminum housing with a tempered and impact resistant glass globe. PLE fixture has an operating temperature range of -40°C to +55°C.
- B Lightweight and compact** - Low profile and lightweight design is ideal for compact installations.
- C Ease of installation** - U-shaped yoke mount provides mounting flexibility - wall, ceiling, pole, etc.



PLE LED light fixtures

PRIMARY APPLICATIONS

Ideal for a variety of non-hazardous medium or heavy-duty applications such as mining, platforms, loading docks, tunnels, and general industrial manufacturing areas.

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
PLE-3L	70W-100W	
PLE-5L	100W-150W	Up to 66% reduction in energy costs
PLE-7L	150W-175W	
PLE-8L	150W-175W	

CERTIFICATIONS & COMPLIANCES

- IEC Standard: CE
- IP66

ELECTRICAL RATINGS

- Voltages: 100-240 VAC; 108-250 VDC
- Input power: 30W, 50W, 70W, 80W

OPTIONS AND ACCESSORIES

- Emergency battery
- Clear or diffused glass lens
- Warm white (3000K) and cool white (5700K) color temperatures

Champ™ Pro PLL LED linear light fixtures

PRIMARY APPLICATIONS

Ideal for a variety of non-hazardous applications such as mining, food processing, marine, waste-water treatment heavy manufacturing and general wash down areas.

LUMINAIRE MODELS

Model number	Equivalent fluorescent luminaire	Typical energy savings/lifetime
PLL2	2 x 2 ft. T5/T8/T12HO	Up to 63% reduction in energy costs and 60,000 hours of continuous operation!
PLL4	2 x 4 ft. T5/T8/T12HO	

CERTIFICATIONS & COMPLIANCES

- UL1598; UL1598A; UL924
- CSA C22.2 No. 250
- Type 4X, IP66, Wet Locations
- ABS design assessed
- DesignLights Consortium® approved for select models*

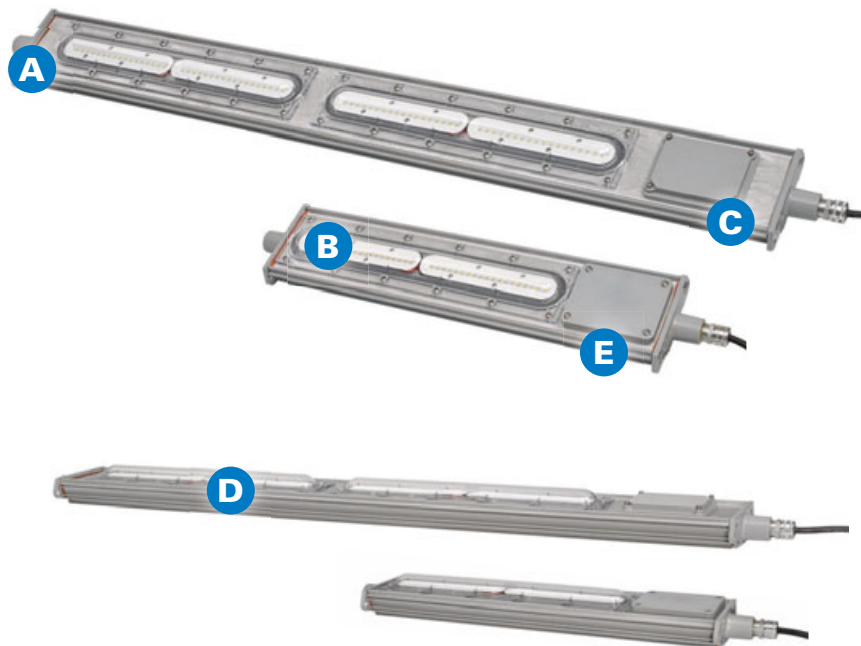
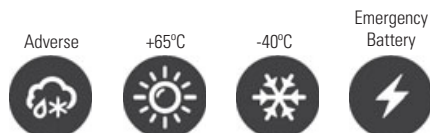


ELECTRICAL RATINGS

- Voltage: 100-277 VAC, 347-480 VAC, 108-250 VDC
- Input power: 32W, 63W

OPTIONS AND ACCESSORIES

- Polycarbonate lens, available in clear or diffused
- Flush/back, ceiling/swivel, wall, offset wall, pole and pendant mounts
- Safety chain kit
- Epoxy painted or natural aluminum finish
- Emergency back-up battery option



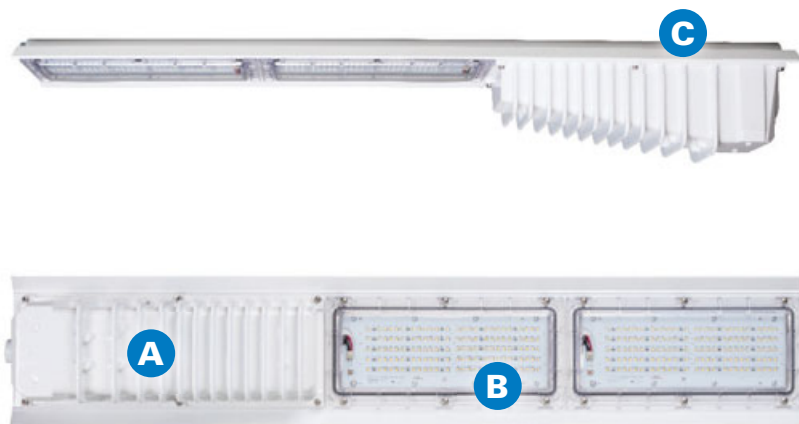
Up to 63% more energy efficient than a T5HO fluorescent light and 8 times the rated life

DESIGN FEATURES

- A Best-in-class efficacy** - Up to 123 lumens per watt.
- B Custom optics** - Standard wide (120°) and narrow (80°) beam pattern for a wide variety of general and targeted lighting applications.
- C Built to last** - 2,000 psi high pressure hose down rated; high vibration resistant; 60,000 hour lifetime @ 55°C ambient.
- D Slim profile** - 2.7" fixture height (excluding mounting brackets), perfect for mounting in confined or low height areas.
- E Quick & easy installation** - Easy access to drivers and wiring; no custom brackets or hardware needed; Seven mounting options available.



* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.



NSF Splash Zone rated, 1500 PSI hose down tested and an angled housing to mitigate debris build-up

DESIGN FEATURES

- A Innovative and robust design** - Angled light fixture mitigates debris build-up. Withstands 1500 psi high pressure wash down, and food rated paint maintains safety.
- B High performance optics and drivers** - 100+ lumens per watt provides highly efficient lighting. Rated life is up to 60,000 hours of maintenance-free and safe operation.
- C Easily customized for application-specific performance** - Versatile mounting options with a through feed design for simplified multiple fixture wiring.



Harsh & heavy industrial Linear

Pauluhn™ APEX LED linear light fixtures

PRIMARY APPLICATIONS

Replaces fluorescent T12, T8, and T5HO fixtures in hose down, corrosive and heavy industrial environments.

The APEX LED was designed with food and beverage processing facilities in mind. The fixture housing is angled to mitigate debris build-up and features a food-rated epoxy powder coat finish. Plus, its robust design can withstand 1,500 PSI hose pressure for wash down applications.

LUMINAIRE MODELS

Model number	Equivalent luminaire	Typical energy savings/lifetime
APX13L	3 lamp T5HO	Up to 50% reduction in energy costs and minimum 60,000 hours of continuous operation!
APX17L	4 lamp T5HO	
APX25L	6 lamp T5HO	

CERTIFICATIONS & COMPLIANCES

- UL1598; UL8750
- CSA 22.2 No. 250
- NSF Splash Zone
- Type 4X; IP66

ELECTRICAL RATINGS

- Voltages: 100-277 VAC/347-480 VAC, 127-250 VDC
- Input power: 122W, 144W, 217W

OPTIONS AND ACCESSORIES

- Polycarbonate lens in clear or diffused
- Optional 0-10V dimming capabilities
- Surface/swivel mount, cable/chain mount and threaded rod mount
- Available with cord assemblies and quick disconnect receptacle

Pauluhn™ Intrepid LED linear light fixtures

PRIMARY APPLICATIONS

A low/mid bay linear LED fixture for industrial and marine locations. The Intrepid is available with a non-metallic housing and is Type 4X / IP66 rated for moisture protection in hose down and marine applications.

LUMINAIRE MODELS

Model number	Equivalent fluorescent luminaire	Typical energy savings/lifetime
FPS2L	2 x 2 ft. T8/	Up to 63% reduction in energy costs and 60,000 hours of continuous operation!

CERTIFICATIONS & COMPLIANCES

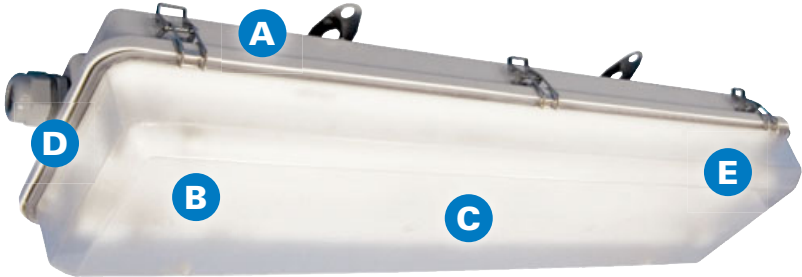
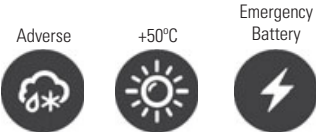
- UL1598; UL1598A; UL924
- CSA C22.2 No. 250
- Type 4X
- IP66
- NSF Splash Zone
- ABS approved (pending)

ELECTRICAL RATINGS

- Voltage: 100-277 VAC
- Input power: 27W, 37W (EM model)

OPTIONS AND ACCESSORIES

- Red and Blue color LEDs for naval applications
- Emergency battery back-up
- Surface and pole mounts

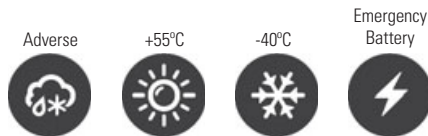


A nonmetallic, corrosion-resistant LED fixture designed for hose down and marine applications

DESIGN FEATURES

- A Built to last** - Nonmetallic housing and stainless steel mounts and latches provide excellent resistance to corrosion.
- B Low-glare design** - Diffused lens minimizing glare in low mounting height applications.
- C Color LED options** - Available with red or blue LEDs for naval or emergency applications.
- D Installation-friendly** - Versatile options for terminal blocks and through feed.
- E Emergency** - Available with a self-contained battery system for emergency power loss applications.





Rugged, low profile fixture that is easy to install and provides clear illumination in challenging areas

DESIGN FEATURES

- A Rugged design** - Copper-free aluminum housing and impact-resistant polycarbonate lens provide excellent resistance to corrosion and heat.
- B Easy installation** - Lightweight design, hinged cover, and a terminal block wing for easy installation and maintenance.
- C Industry leading thermal management** - For safe and reliable operation over a wide temperature range.
- D Retrofit friendly** - Fixture utilizes the same mounting footprint of linear fluorescent lighting.



Harsh & heavy industrial Linear

PLLE LED linear light fixtures

PRIMARY APPLICATIONS

Constructed with an aluminum housing and high impact-resistant polycarbonate cover for use in outdoor and indoor industrial areas where moisture or corrosion may be a problem, such as offshore oil platforms, pharmaceutical and chemical plants, oil refineries and industrial locations.

LUMINAIRE MODELS

Model number	Equivalent luminaire	Typical energy savings/lifetime
PLLE-2-C2-3L	2x18W	Up to 72% reduction in energy costs and 60,000 hours of continuous operation!
PLLE-2-C2-4L	2x36W	
PLLE-4-C2-5L	2x36W	
PLLE-4-C2-8L	2x58W	

CERTIFICATIONS & COMPLIANCES

- CE self declared
- IP66

ELECTRICAL RATINGS

- Voltages: 100-240 VAC
- Input power: 30W, 40W, 60W, 80W

OPTIONS AND ACCESSORIES

- Epoxy coating on aluminum housing
- Emergency battery back-up
- Pipe, wall, and ceiling mounts available

CEAG™ LLK15 LED linear light fixtures

PRIMARY APPLICATIONS

Crisp, bright light and durability in wet and harsh environments. Wide ambient temperature range from -40° to +55°C. Heavy duty, non-metallic construction stands up to dust, dirt, gas, vapor, smoke, fumes, moisture, corrosive and wet conditions are present.

LUMINAIRE MODELS

Model number	Equivalent fluorescent luminaire	Typical energy savings/lifetime
LLK15 LED 600	2 x 18W	Up to 60% more efficient than fluorescent light fixtures
LLK15 LED 1200	2 x 36W	
LLK15 LED 1500	2 x 58W	

CERTIFICATIONS & COMPLIANCES

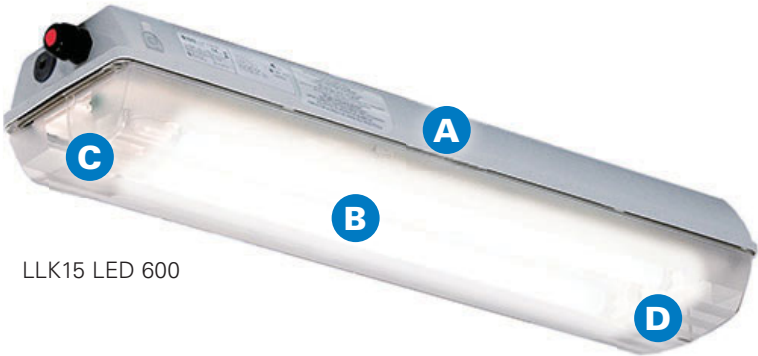
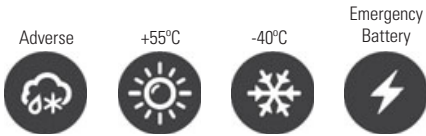
- Text
- IP66
- Operating temperature range -40°C to +55°C

ELECTRICAL RATINGS

- Voltage: 220-240 VAC
- Input power: 18W, 37W, 49W

OPTIONS AND ACCESSORIES

- Available with safety switch on request
- Wall mount brackets, ceiling mount brackets and pipe clamps



LLK15 LED 600

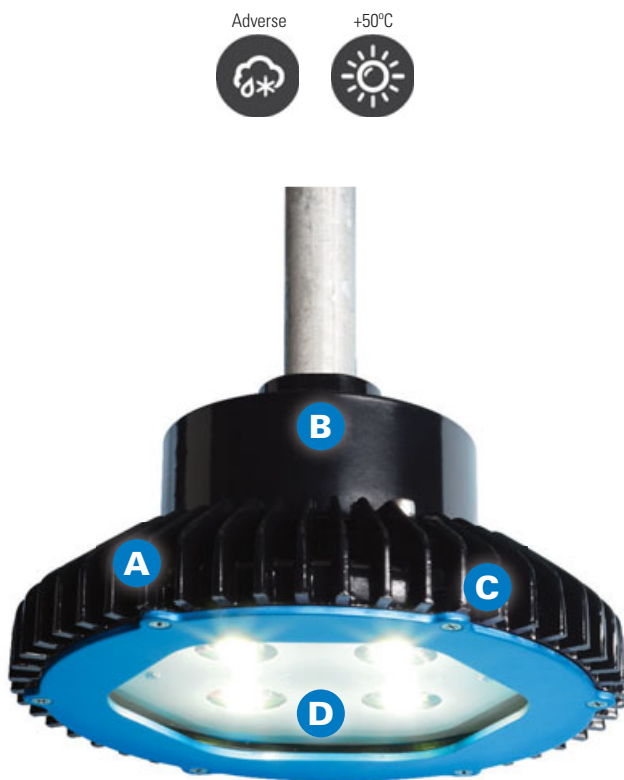


LLK15 LED 1200 and 1500

A rugged and durable LED fixture designed reliable performance in extreme ambient temperatures

DESIGN FEATURES

- A Built to last** - Heavy duty, non-metallic construction stands up to tough physical and environmental demands, making it an excellent choice where dust, dirt, gas, vapor, smoke, fumes, moisture, corrosive and wet conditions are present.
- B High output** - Utilizes long-life LED tubes for extreme applications, providing high efficacy and long life.
- C Extreme temperatures** - Rated for use in ambient temperatures from -40°C to +55°C
- D Emergency** - Available with a self-contained battery system or V-CG-S module for monitoring with an Eaton central battery system.



85% more energy-efficient than a 200 watt incandescent and over 20 times the rated life

DESIGN FEATURES

- A Domeless reflector, low profile design** - Designed for low mounting heights and confined spaces where incandescent and HID based luminaires are too large.
- B Installation and replacement made simple** - Installed using the same mounting modules as existing Eaton's Crouse-Hinds Vaporgard fixtures.
- C Safe, reliable heat transfer** - Heat sink engineered to safely and effectively remove heat from the LED and driver, ensuring long product life and superior T-ratings.
- D High power multi-die LED arrays** - Provides instant on and full illumination in the harshest conditions, even when exposed to high, repeated vibration.



* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

Vaporgard™ Pro P2L LED light fixtures

PRIMARY APPLICATIONS

Indoor or outdoor areas with low mounting heights or confined spaces, such as tunnels and catwalks, over doorways or entries, landing areas, utility rooms, etc.

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
P2LM2	50W HID or 150-200W incandescent	Up to 85% reduction in energy costs and 50,000 hours of continuous operation!
P3LM2		

CERTIFICATIONS & COMPLIANCES

- UL1598
- UL1598A Marine
- cUL Listed to CSA Standard CSA 22.2 No. 250
- Type 4X, IP66, Wet Locations
- DesignLights Consortium® approved for select models*
- IEC Standard: CE



ELECTRICAL RATINGS

- Voltages: 120-277 VAC, 12-24 VDC
- Input power: 14W, 29W

OPTIONS AND ACCESSORIES

- Frosted/Diffused lens
- Teflon coated lens
- Warm white (3000K), Neutral (400K) and cool white (5000K) color temperatures
- 10-30 VDC driver
- Wall, ceiling, pendant and stanchion mounts

Champ™ Pro PVM High Bay LED

PRIMARY APPLICATIONS

A durable, high lumen solution for industrial areas with mounting heights from 60 to 100+ feet. Common applications include production facilities, clean rooms, packaging facilities and warehouses.

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
PVM60L	1000W	Up to 65% reduction in energy costs and 60,000 hours of continuous operation!
PVM85L	1500W	

CERTIFICATIONS & COMPLIANCES

- cULus wet location
- Type 4X, IP66
- ROHS compliant
- DesignLights Consortium® approved for select models*

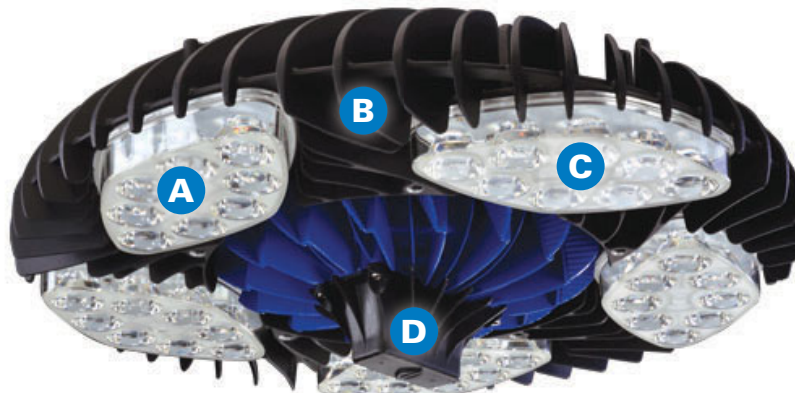


ELECTRICAL RATINGS

- Voltage: 277-480 VAC
- Input power: 472W, 678W

OPTIONS AND ACCESSORIES

- Two CCT colors: 4000K and 5000K at 85 CRI
- Medium, narrow, wide and extra wide optics
- Control options include standard fixed output or optional 0-10V dimming
- Universal mounting allows for suspended, pipe or hook mount. Optional surface mount bracket available
- Available with cord assemblies and plugs



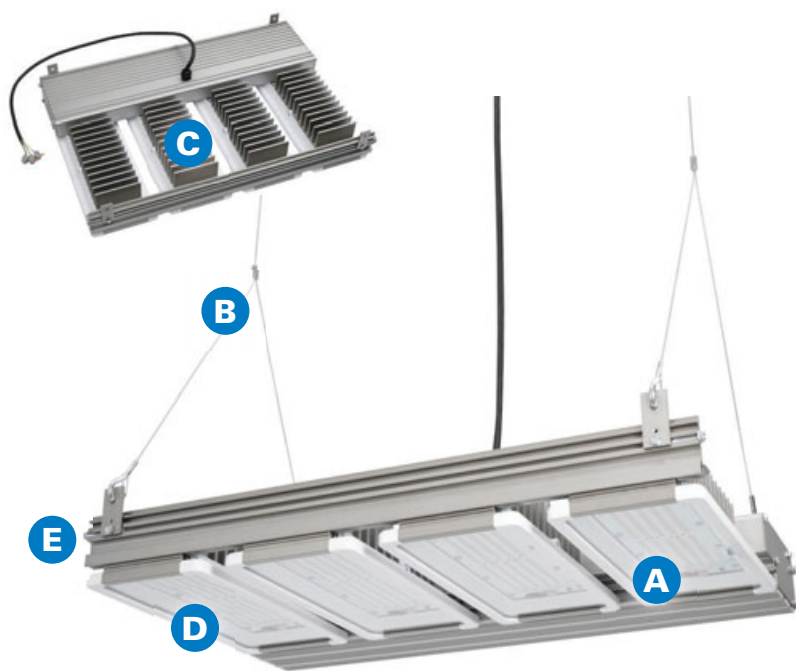
Delivers up to 85,000 lumens and is built to operate in up to 65°C environments.

DESIGN FEATURES

- A Best-in-class efficacy** - Up to 132 lumens per watt.
- B Built to last** - Constructed of heavy duty, die cast aluminum with a 3G vibration rating and an operating temperature range of -40°C to +65°C.
- C Custom optics** - Narrow, medium, wide and extra wide distribution options ensures superior performance to key areas within an application.
- D Dimming capabilities** - Control options include standard fixed output or optional 0-10V dimming.



* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.



Perfect replacement for 400-1500 watt HID or 4-10 lamp T5HO fixtures

DESIGN FEATURES

- A Increased efficiency** - Up to 117 lumens per watt.
- B Multiple mounting options** - Available with pendant, aircraft cable or jack chain mounting.
- C Aluminum heat sinks for superior thermal management.**
- D Multiple lens options** - Tempered and clear glass standard, diffused glass and clear or diffused polycarbonate options available.
- E Optional occupancy sensor kit available.**



* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

Industrial High Bay LED light fixtures

PRIMARY APPLICATIONS

IHB LED luminaires are the perfect replacement for 250W-1,500W HID and 4-10 lamp T5HO fluorescent high bay fixtures. Designed for locations requiring continuous and consistent light levels, requiring frequent on-and-off of lights and that are difficult to relamp or that cause production to be stopped during the lamp maintenance process.

LUMINAIRE MODELS

Model number	Equivalent luminaire	Typical energy savings/lifetime
IHB16L	250-500W HID or 4 lamp T5HO	
IHB24L	400-750W HID or 4-6 lamp T5HO	Up to 72% reduction in energy costs and 60,000 hours of continuous operation!
IHB32L	500-1000W HID or 6-8 lamp T5HO	
IHB48L	750-1,500W HID or 8-10 lamp T5HO	
IHB64L	1,000-1,500W HID or 10 lamp T5HO	

CERTIFICATIONS & COMPLIANCES

- UL1598; UL8750
- cULus
- Damp location
- DesignLights Consortium® approved for select models

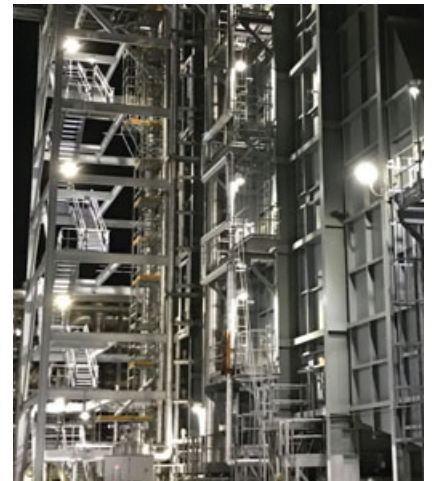


ELECTRICAL RATINGS

- Voltages: 100-277 VAC/127-250 VDC, 347-480 VAC
- Input power: 145W, 216W, 289W, 436W, 582W

OPTIONS AND ACCESSORIES

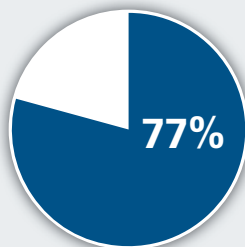
- Occupancy sensor kits
- Diffused or clear lens (glass or polycarbonate)
- Lens guard
- Open ended and closed dust cover kits
- Dimmable driver
- Wide or aisle optic
- Pendant, aircraft cable or jack chain mounting



LED vs. Conventional lighting technologies

Why are so many facilities making the switch to Crouse-Hinds series LED?

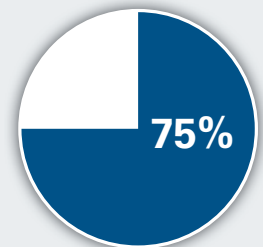
The numbers say it all.



**AVERAGE REDUCTION
IN ENERGY COSTS**



**MAINTENANCE
REDUCTION**



**75% LOWER TOTAL
COST OF OWNERSHIP**

Assumptions: Calculations based on overall life of the LED system. Energy cost of \$.09 per kilowatt; 24 hour per day operation; labor rate of \$75 each for 2 workers; average time for fixture maintenance of 1 hour.

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