

# Mercmaster™ ATEX LN Series Wellglass Luminaires

## Zone 2 and 22

ATEX/IECEX:  
Zone 2 and 22  
II 3 GD  
IP66

### Applications

- Enclosed and gasketed fixtures suitable for use in:
  - Marine and wet locations
  - Areas where flammable gases, vapors or combustible dusts are present under conditions defined by the IEC as Zone 2 and 22
  - Applications where energy efficient, high lumen output is required
  - Non-hazardous locations where severe weather conditions, excessive moisture, dirt, dust, corrosive atmosphere or high ambient temperatures are encountered
- Typical applications include:
  - Pulp and paper mills
  - Processing plants
  - Chemical plants
  - Oil refineries
  - Foundries
  - Manufacturing plants
  - Storage areas
  - Waste and sewage treatment
  - Other areas where dust, water, dirt and rough usage are a problem

### Features

- Power supply 230/240 V (+6% - 10%) 50 Hz.
- Instant relighting with auxiliary halogen lamps, depending on model (lamps not supplied).
- Fast relighting for 70 W and 150 W high pressure sodium: 5 to 30 seconds depending on the duration of the mains power supply failure.
- Connection via terminal block — 2 x 4 mm<sup>2</sup> (0.003 x 0.006 in<sup>2</sup>) maximum.
- Superior corrosion-resistance: copperfree die-cast mounting hoods, ballast housing and guards have a gray epoxy powder coat, electrostatically applied for complete and uniform protection.
- Wide choice of light sources: high pressure sodium, metal halide, mercury vapor and incandescent.
- Six mounting arrangements to suit any lighting layout – pendant, ceiling, wall bracket, angled or straight stanchion and pendant cone (for dust applications).
- Hinge has high lip for added safety during installation and servicing. Hinge and bolt construction assures 360° compression at all points on ballast housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies servicing.
- All fixtures designed to perform in a -40 °C (-40 °F) ambient temperature up to +55 °C (+131 °F).
- Standard dome or 30° angle reflectors made of fiberglass reinforced white polyester. Highly resistant to corrosive atmospheres and vented to improve fixture cooling characteristics.
- Fixture housing mounting hoods and guards are die-cast copperfree aluminum with epoxy powder coat finish.
- All exposed hardware is stainless steel and captive. Stainless thread inserts in the ballast bodies prevent “freezing” of the screws that affix guards and reflectors, simplifying removal for service.
- One piece ballast housing for each component provides even heat dissipation for cooler operation and longer ballast life.
- Fixture bodies are provided with two silicone rubber O-Ring style gaskets that will stay flexible and assure even compression around their circumference. They easily withstand high temperatures, moisture, dirt and dust for worry free operation.



Low Profile Ceiling Mount with Prismatic Globe and Optional Guard



50–200 Watt 25° Stanchion Mount with Prismatic Globe



50–200 Watt 90° Stanchion Mount with Prismatic Globe and Optional Guard



400 Watt Straight Stanchion Mount with Prismatic Glass Globe and Optional Guard

### Standard Materials

- Mounting hoods and ballast bodies: die-cast copperfree (4/10 of 1% max.) aluminum
- Hardware and catch assemblies: stainless steel
- Globe: heat and impact resistant internally fluted glass
- Gasket: high temperature silicon
- Reflector: fiberglass reinforced polyester
- Guards: polyester powder coat finished cast copperfree aluminum (LN1 and LN2 sizes) or stainless steel (LN3 and LN4 sizes)

### Standard Finishes

- Mounting hoods, ballast bodies and guards: epoxy powder coat finish, electrostatically applied for complete, uniform surface protection
- Reflectors: white polyester finish

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### ATEX/IECEX Certifications and Compliances

- Certification Type: LN
  - Gas: Zone 2
    - Conforming to ATEX 94/9/CE: ⊕ II 3 G
    - Type of Protection: Ex nR IIC Gc
- Certification Type: LN
  - Dust: Zone 22
    - Conforming to ATEX 94/9/CE: ⊕ II 3 D
    - Type of Protection: Ex tc IIIC Dc

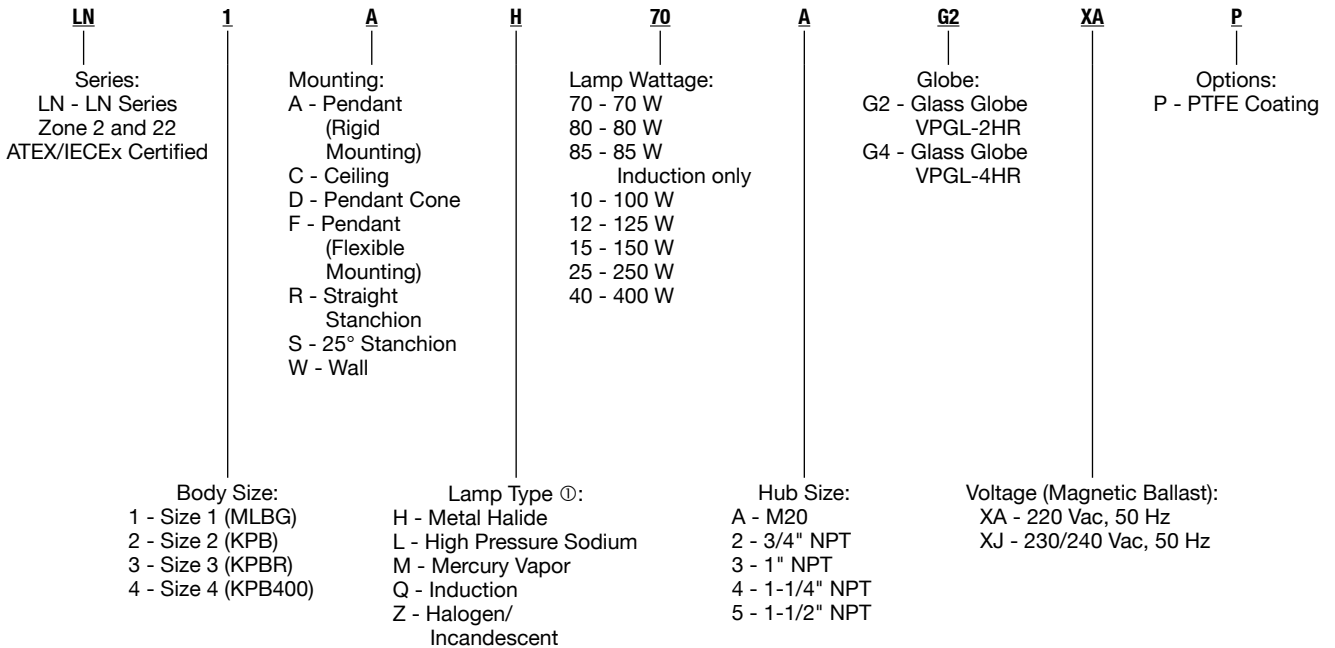
- Ambient Temperature: +40 °C to +55 °C (+104 °F to +131 °F)
- CE Declaration of Conformity: 50217
- ATEX Certificate: LCIE 08 ATEX 6036X
- IECEx Certificate: IECEx LCI 10.0041X
- Index of Protection according EN/IEC 60529: IP66

### EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00912

Order using catalog numbering guide below or select catalog number from tables on following pages.

### Catalog Numbering Guide for LN Series Luminaires



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### T Rating (Gas) and Surface Temperature (Dust) Table Rating

Lamp Wattage/Type		Gas			Dust	
		Zone 2 T Rating Ambient Temperatures			Zone 22 Surface Temperature for Ambient T° = +55 °C (+131 °F)	
		+40 °C (+104 °F)	+50 °C (+122 °F)	+55 °C (+131 °F)	Dust Surface	Cable
70 W HPS	T Rating	T4	T4	T4	+113 °C (+235 °F)	—
100 W HPS	T Rating	T4	T3	T3	+143 °C (+289 °F)	—
100 W Incandescent	T Rating	T4	T3	T3	+143 °C (+289 °F)	—
100 W Halogen	T Rating	T4	T3	T3	+143 °C (+289 °F)	—
125 W Mercury	T Rating	T4	T3	T3	+143 °C (+289 °F)	—
150 W HPS	T Rating	T4	T3	T3	+143 °C (+289 °F)	—
150 W Halide	T Rating	T4	T3	T3	+143 °C (+289 °F)	—
150 W Incandescent	T Rating	T4	T3	T3	+143 °C (+289 °F)	—
150 W Halogen	T Rating	T4	T3	T3	+143 °C (+289 °F)	—
250 W HPS	T Rating	T4	T4	T3	+137 °C (+279 °F)	—
250 W Halide	T Rating	T4	T3	T3	+143 °C (+289 °F)	—
250 W Mercury	T Rating	T4	T3	T3	+143 °C (+289 °F)	—
400 W HPS	T Rating	T3	T3	T3	+167 °C (+333 °F)	+89 °C (+192 °F)
	Cable T°	—	+84 °C (+183 °F)	+89 °C (+192 °F)		
400 W Halide	T Rating	T3	T3	T3	+171 °C (+340 °F)	+87 °C (+189 °F)
	Cable T°	—	+82 °C (+180 °F)	+87 °C (+189 °F)		
400 W Mercury	T Rating	T3	T3	T3	+171 °C (+340 °F)	+89 °C (+192 °F)
	Cable T°	—	+84 °C (+183 °F)	+89 °C (+192 °F)		

“T” Numbers Represent the Maximum Lamp Temperature Locations and Maximum Surface Temperature Under Dust Blanket.







“T” Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
Temp. Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-212	185

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## Zone 2 and 22. High Pressure Sodium

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	Lamp Type	Cable Entry	Lamp Watts	Lampholder	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
<b>Pendant</b>							
	HPS	1 x 3/4" NPT	70	E27	7.4 (16.31)	39.0 (2379.93)	LN1AL702G2XJ
			100	E40	9.0 (19.84)	55.0 (3356.31)	LN2AL102G2XJ
			150	E40	9.0 (19.84)	55.0 (3356.31)	LN2AL152G2XJ
			250	E40	16.0 (35.27)	70.0 (4271.66)	LN3AL252G4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4AL402G4XJ
<b>Pendant Cone</b>							
	HPS	1 x 3/4" NPT	70	E27	7.4 (16.31)	39.0 (2379.93)	LN1DL702G2XJ
			100	E40	9.0 (19.84)	55.0 (3356.31)	LN2DL102G2XJ
			150	E40	9.0 (19.84)	55.0 (3356.31)	LN2DL152G2XJ
			250	E40	16.0 (35.27)	70.0 (4271.66)	LN3DL252G4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4DL402G4XJ
<b>Ceiling</b>							
	HPS	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	70	E27	7.4 (16.31)	39.0 (2379.93)	LN1CL70AG2XJ
			100	E40	9.0 (19.84)	55.0 (3356.31)	LN2CL10AG2XJ
			150	E40	9.0 (19.84)	55.0 (3356.31)	LN2CL15AG2XJ
			250	E40	16.0 (35.27)	70.0 (4271.66)	LN3CL25AG4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4CL40AG4XJ
<b>Wall</b>							
	HPS	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	70	E27	7.4 (16.31)	39.0 (2379.93)	LN1WL70AG2XJ
			100	E40	9.0 (19.84)	55.0 (3356.31)	LN2WL10AG2XJ
			150	E40	9.0 (19.84)	55.0 (3356.31)	LN2WL15AG2XJ
			250	E40	16.0 (35.27)	70.0 (4271.66)	LN3WL25AG4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4WL40AG4XJ
<b>25° Angled Stanchion</b>							
	HPS	1 x 1- 1/4" NPT	70	E27	7.4 (16.31)	39.0 (2379.93)	LN1SL704G2XJ
			100	E40	9.0 (19.84)	55.0 (3356.31)	LN2SL104G2XJ
			150	E40	9.0 (19.84)	55.0 (3356.31)	LN2SL154G2XJ
			250	E40	16.0 (35.27)	70.0 (4271.66)	LN3SL254G4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4SL404G4XJ
<b>Straight Stanchion</b>							
	HPS	1 x 1- 1/4" NPT	70	E27	7.4 (16.31)	39.0 (2379.93)	LN1RL704G2XJ
			100	E40	9.0 (19.84)	55.0 (3356.31)	LN2RL104G2XJ
			150	E40	9.0 (19.84)	55.0 (3356.31)	LN2RL154G2XJ
			250	E40	16.0 (35.27)	70.0 (4271.66)	LN3RL254G4XJ
			400	E40	19.0 (41.89)	85.2 (5199.22)	LN4RL404G4XJ







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	Lamp Type	Cable Entry	Lamp Watts	Lampholder	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
<b>Pendant</b>							
	Inc./	1 x 3/4" NPT	100	E27	7.4 (16.31)	39.0 (2379.93)	<b>LN1AZ102G2</b>
	Halogen		150	E27	7.4 (16.31)	39.0 (2379.93)	<b>LN1AZ152G2</b>
<b>Pendant Cone</b>							
	Inc./	1 x 3/4" NPT	100	E27	7.4 (16.31)	39.0 (2379.93)	<b>LN1DZ102G2</b>
	Halogen		150	E27	7.4 (16.31)	39.0 (2379.93)	<b>LN1DZ152G2</b>
<b>Ceiling</b>							
	Inc./	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	100	E27	7.4 (16.31)	39.0 (2379.93)	<b>LN1CZ10AG2</b>
	Halogen		150	E27	7.4 (16.31)	39.0 (2379.93)	<b>LN1CZ15AG2</b>
<b>Wall</b>							
	Inc./	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	100	E27	7.4 (16.31)	39.0 (2379.93)	<b>LN1WZ10AG2</b>
	Halogen		150	E27	7.4 (16.31)	39.0 (2379.93)	<b>LN1WZ15AG2</b>
<b>25° Angled Stanchion</b>							
	Inc./	1 x 1-1/4" NPT	100	E27	7.4 (16.31)	39.0 (2379.93)	<b>LN1SZ104G2</b>
	Halogen		150	E27	7.4 (16.31)	39.0 (2379.93)	<b>LN1SZ154G2</b>
<b>Straight Stanchion</b>							
	Inc./	1 x 1-1/4" NPT	100	E27	7.4 (16.31)	39.0 (2379.93)	<b>LN1RZ104G2</b>
	Halogen		150	E27	7.4 (16.31)	39.0 (2379.93)	<b>LN1RZ154G2</b>







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## Zone 2 and 22. Mercury Vapor

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	Lamp Type ①	Cable Entry	Lamp Watts	Lampholder	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
<b>Pendant</b>							
	MV	1 x 3/4" NPT	150	E27	7.4 (16.31)	39.0 (2379.93)	<b>LN1AM122G2XJ</b>
			250	E40	14.0 (30.86)	70.0 (4271.66)	<b>LN3AM252G4XJ</b>
			400	E40	19.0 (41.89)	85.2 (5199.22)	<b>LN4AM402G4XJ</b>
<b>Pendant Cone</b>							
	MV	1 x 3/4" NPT	150	E27	7.4 (16.31)	39.0 (2379.93)	<b>LN1DM122G2XJ</b>
			250	E40	14.0 (30.86)	70.0 (4271.66)	<b>LN3DM252G4XJ</b>
			400	E40	19.0 (41.89)	85.2 (5199.22)	<b>LN4DM402G4XJ</b>
<b>Ceiling</b>							
	MV	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	150	E27	7.4 (16.31)	39.0 (2379.93)	<b>LN1CM12AG2XJ</b>
			250	E40	14.0 (30.86)	70.0 (4271.66)	<b>LN3CM25AG4XJ</b>
			400	E40	19.0 (41.89)	85.2 (5199.22)	<b>LN4CM40AG4XJ</b>
<b>Wall</b>							
	MV	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	150	E27	7.4 (16.31)	39.0 (2379.93)	<b>LN1WM12AG2XJ</b>
			250	E40	14.0 (30.86)	70.0 (4271.66)	<b>LN3WM25AG4XJ</b>
			400	E40	19.0 (41.89)	85.2 (5199.22)	<b>LN4WM40AG4XJ</b>
<b>25° Angled Stanchion</b>							
	MV	1 x 1-1/4" NPT	150	E27	7.4 (16.31)	39.0 (2379.93)	<b>LN1SM124G2XJ</b>
			250	E40	14.0 (30.86)	70.0 (4271.66)	<b>LN3SM254G4XJ</b>
			400	E40	19.0 (41.89)	85.2 (5199.22)	<b>LN4SM404G4XJ</b>
<b>Straight Stanchion</b>							
	MV	1 x 1-1/4" NPT	150	E27	7.4 (16.31)	39.0 (2379.93)	<b>LN1RM124G2XJ</b>
			250	E40	14.0 (30.86)	70.0 (4271.66)	<b>LN3RM254G4XJ</b>
			400	E40	19.0 (41.89)	85.2 (5199.22)	<b>LN4RM404G4XJ</b>

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	Lamp Type ①	Cable Entry	Lamp Watts	Lampholder	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
<b>Pendant</b>							
	MH	1 x 3/4" NPT	150	E40	9.0 (19.84)	55.0 (3356.31)	<b>LN2AH152G2XJ</b>
			250	E40	16.0 (35.27)	70.0 (4271.66)	<b>LN3AH252G4XJ</b>
			400	E40	19.0 (41.89)	85.2 (5199.22)	<b>LN4AH402G4XJ</b>
<b>Pendant Cone</b>							
	MH	1 x 3/4" NPT	150	E40	9.0 (19.84)	55.0 (3356.31)	<b>LN2DH152G2XJ</b>
			250	E40	16.0 (35.27)	70.0 (4271.66)	<b>LN3DH252G4XJ</b>
			400	E40	19.0 (41.89)	85.2 (5199.22)	<b>LN4DH402G4XJ</b>
<b>Ceiling</b>							
	MH	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	150	E40	9.0 (19.84)	55.0 (3356.31)	<b>LN2CH15AG2XJ</b>
			250	E40	16.0 (35.27)	70.0 (4271.66)	<b>LN3CH25AG4XJ</b>
			400	E40	19.0 (41.89)	85.2 (5199.22)	<b>LN4CH40AG4XJ</b>
<b>Wall</b>							
	MH	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	150	E40	9.0 (19.84)	55.0 (3356.31)	<b>LN2WH15AG2XJ</b>
			250	E40	16.0 (35.27)	70.0 (4271.66)	<b>LN3WH25AG4XJ</b>
			400	E40	19.0 (41.89)	85.2 (5199.22)	<b>LN4WH40AG4XJ</b>
<b>25° Angled Stanchion</b>							
	MH	1 x 1-1/4" NPT	150	E40	9.0 (19.84)	55 (3356.31)	<b>LN2SH154G2XJ</b>
			250	E40	16.0 (35.27)	70 (4271.66)	<b>LN3SH254G4XJ</b>
			400	E40	19.0 (41.89)	85.2 (5199.22)	<b>LN4SH404G4XJ</b>
<b>Straight Stanchion</b>							
	MH	1 x 1-1/4" NPT	150	E40	9.0 (19.84)	55 (3356.31)	<b>LN2RH154G2XJ</b>
			250	E40	16.0 (35.27)	70 (4271.66)	<b>LN3RH254G4XJ</b>
			400	E40	19.0 (41.89)	85.2 (5199.22)	<b>LN4RH404G4XJ</b>

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Item	Description	Catalog Number
<b>White Polyester Reflectors</b>		
<b>For Globe Fixtures – LN1 and LN2 sizes</b>		
 Standard Dome	Standard Dome	<b>KR2-ST</b>
	30° Angle	<b>KR2-AN</b>
<b>For Glass Refractor Fixtures – LN3 and LN4 sizes</b>		
 Standard Dome	Standard Dome	<b>CMR-4ST</b>
	30° Angle	<b>CMR-4AN</b>
<b>Guards</b>		
<b>For Globe Fixtures – LN1 and LN2 sizes</b>		
 Globe Guard	Aluminium	<b>KRGU2</b>
	<b>For Glass Refractor Fixtures – LN3 and LN4 sizes</b>	
 Globe Guard	Stainless Steel	<b>KPGU400</b>

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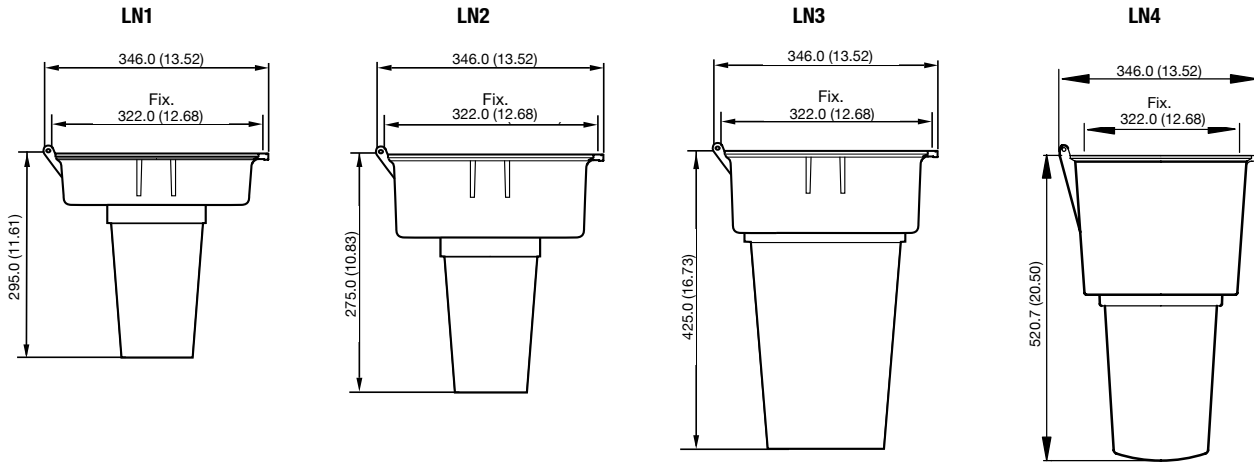
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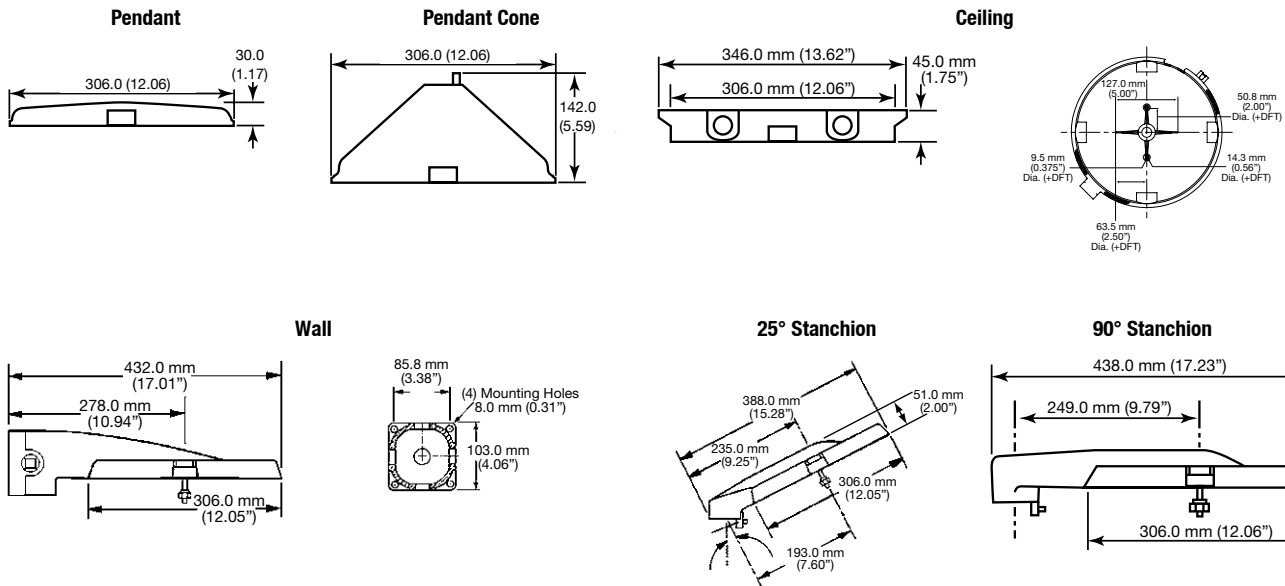
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## Dimensions in Millimeters (Inches)

### Ballast Body with Globe



### Mounting Hoods



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### Photometric Data

Polar curves for a 1000 lm flux, according to NF C 71-120  
 Luminaire symbol according to NF C 71-121

--- Longitudinal  
 — Transverse

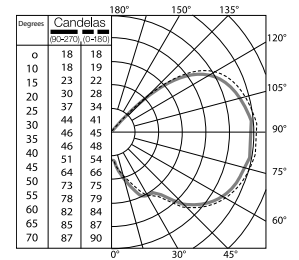
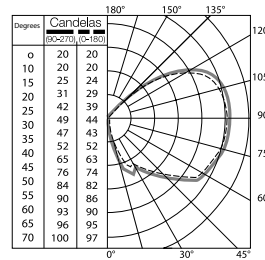
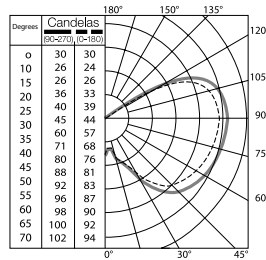
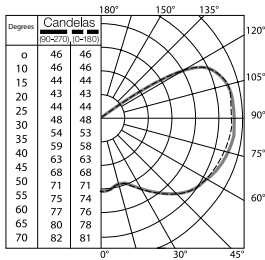
### High Pressure Sodium

70 W HP Sodium — Efficiency 74.6%

150 W HP Sodium — Efficiency 87.3%

250 W HP Sodium — Efficiency 89.1%

400 W HP Sodium — Efficiency 82.3%

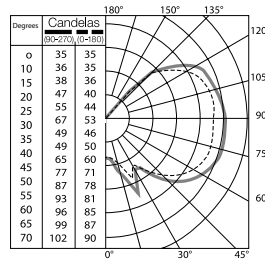
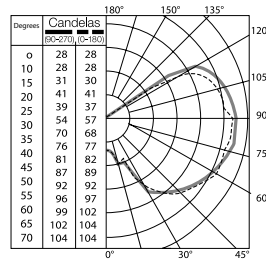
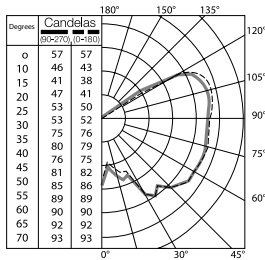


### Metal Halide

150 W Metal Halide — Efficiency 82.4%

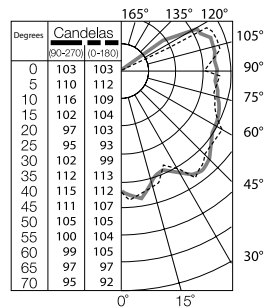
250 W Metal Halide — Efficiency 96.2%

400 W Metal Halide — Efficiency 89.8%



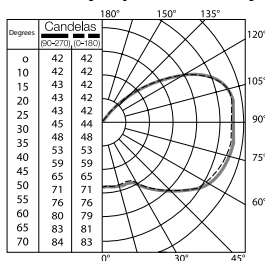
### Incandescent or Halogen

150 W HP Incandescent Halogen — Efficiency 90.6%



### Mercury Vapor

250 W Mercury Vapor — Efficiency 76%



HID/AREA: ATEX/IECEX RESTRICTED BREATHING DUST

