

Lighting: Incandescent & HID Lighting

LN Series: Wellglass Luminaires – Zone 2 & 22



Ceiling Mounting



25° Stanchion Mounting
with Guard KGU2



Wall Mounting



Straight Stanchion Mounting
with Guard KPGU400

Compliance Data:

ATEX - IEC:



Zone 2 & 22	ATEX	II 3 GD	IEC	CE
Ex nR II	T4 or T3	Ex tD A22	T113°C to T191°C	IP66

Lamp Types & Watts:

High Pressure Sodium	Metal Halide	Mercury Vapor	Halogen	Incandescent
70 W to 400 W	150 W to 400 W	125 W to 400 W	100 W & 150 W	100 W & 150 W

Operating Temperatures:

-40°C to +55°C

Lighting: Incandescent & HID Lighting

LN Series: Wellglass Luminaires – Zone 2 & 22

Zone 2 & 22

II 3 GD

ATEX / IEC IP66

LIGHTING

Applications:

- Enclosed and gasketed factory sealed LN series wellglass luminaires are suitable for use in marine and wet locations and in areas where flammable gases, vapors or combustible dusts are present under conditions defined by the IEC as Zone 2 & 22.
- Suitable for use in applications where energy efficient, high lumen output is required.
- For use in 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, and 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 sodium: 5 to 30 seconds depending on the duration of the mains power supply failure.
- Connection via terminal block (2 x 4 mm² max.).
- Superior corrosion-resistance: copper-free (less than 0.4 of 1% copper) 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 ambient temperature up to +55°C.
- 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 copper-free 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.

Standard Materials:

- High temperature silicon gasket.
- Die-cast aluminum (copper-free 4/10 of 1% max.) mounting hoods and ballast bodies.
- Stainless steel hardware and catch assemblies.
- Heat and impact resistant internally fluted glass globe.

Standard Materials of Accessories:

- Fiberglass reinforced polyester white reflector.
- Guards are polyester powder coat finished cast copper-free aluminum (LN1 & LN2 sizes) or stainless steel (LN3 & LN4 sizes).

Finishes:

- Mounting hoods, ballast bodies and guards are epoxy powder coat finish, electrostatically applied for complete, uniform surface protection.
- White polyester finish reflectors.

Catalog Number Logic:

LN	X	X	X	XX	X	X	XX	X	
Series:	Mounting:	Lamp Type:	Lamp Power:	Globe:	Options:	Hub Size:	Voltage:		
LN = LN Series Zone 2, 22 ATEX/IEC Certified	A = Pendant (Rigid Mounting) C = Ceiling D = Pendant Cone F = Pendant (Flexible Mounting) R = Straight Stanchion S = 25° Angled Stanchion W = Wall	H = Metal Halide L = Sodium M = Mercury Vapor Q = Induction Z = Halogen/ Incandescent	70 = 70 W 80 = 80 W 85 = 85 W (Induction only) 10 = 100 W 12 = 125 W 15 = 150 W 25 = 250 W 40 = 400 W	G2 = Glass Globe VPGL-2HR G4 = Glass Globe VPGL-4HR	P = PTFE Coating	A = M20 2 = 3/4" NPT 3 = 1" NPT 4 = 1-1/4" NPT 5 = 1-1/2" NPT	XA = 220 Vac 50 Hz (Magnetic Ballast) XJ = 230/240 Vac 50 Hz (Magnetic Ballast)		
Body Size:									
1 = Size 1 (MLBG) 2 = Size 2 (KPB) 3 = Size 3 (KPBR) 4 = Size 4 (KPB400)									

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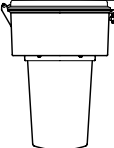
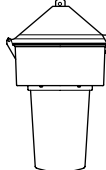
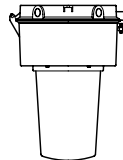
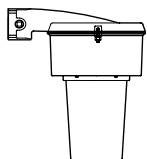
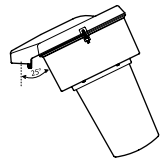
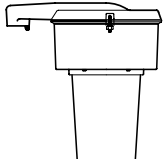
Zone 2 & 22

II 3 GD

ATEX / IEC IP66

Ordering Information:

70 W, 100 W, 150 W, 250 W and 400 W High Pressure Sodium - 230/240 Vac 50 Hz

Fixing Type	Cable Entry	Lampholder	Lamp Watts	Weight (kg)	Volume (dm ³)	Catalog Number	Old Catalog Number
Pendant							
	1 x 3/4" NPT	E27	70 W	7.4	39.0	LN1AL702G2XJ	095059
		E40	100 W	9.0	55.0	LN2AL102G2XJ	095140
		E40	150 W	9.0	55.0	LN2AL152G2XJ	095066
		E40	250 W	16.0	70.0	LN3AL252G4XJ	095050
		E40	400 W	19.0	85.2	LN4AL402G4XJ	095051
Pendant Cone							
	1 x 3/4" NPT	E27	70 W	7.4	39.0	LN1DL702G2XJ	–
		E40	100 W	9.0	55.0	LN2DL102G2XJ	–
		E40	150 W	9.0	55.0	LN2DL152G2XJ	–
		E40	250 W	16.0	70.0	LN3DL252G4XJ	–
		E40	400 W	19.0	85.2	LN4DL402G4XJ	–
Ceiling							
	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	E27	70 W	7.4	39.0	LN1CL70AG2XJ	095029
		E40	100 W	9.0	55.0	LN2CL10AG2XJ	095132
		E40	150 W	9.0	55.0	LN2CL15AG2XJ	095067
		E40	250 W	16.0	70.0	LN3CL25AG4XJ	095030
		E40	400 W	19.0	85.2	LN4CL40AG4XJ	095031
Wall							
	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	E27	70 W	7.4	39	LN1WL70AG2XJ	095060
		E40	100 W	9.0	55	LN2WL10AG2XJ	095148
		E40	150 W	9.0	55	LN2WL15AG2XJ	095068
		E40	250 W	16.0	70	LN3WL25AG4XJ	095040
		E40	400 W	19.0	85.2	LN4WL40AG4XJ	095041
25° Angled Stanchion							
	1 x 1-1/4" NPT	E27	70 W	7.4	39.0	LN1SL704G2XJ	095061
		E40	100 W	9.0	55.0	LN2SL104G2XJ	095241
		E40	150 W	9.0	55.0	LN2SL154G2XJ	095069
		E40	250 W	16.0	70.0	LN3SL254G4XJ	095246
		E40	400 W	19.0	85.2	LN4SL404G4XJ	095249
Straight Stanchion							
	1 x 1-1/4" NPT	E27	70 W	7.4	39.0	LN1RL704G2XJ	095255
		E40	100 W	9.0	55.0	LN2RL104G2XJ	095256
		E40	150 W	9.0	55.0	LN2RL154G2XJ	095259
		E40	250 W	16.0	70.0	LN3RL254G4XJ	095264
		E40	400 W	19.0	85.2	LN4RL404G4XJ	095267

Lighting: Incandescent & HID Lighting

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Zone 2 & 22

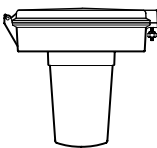
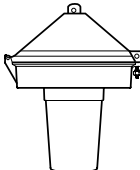
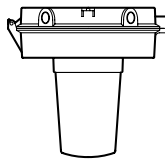
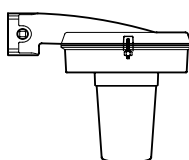
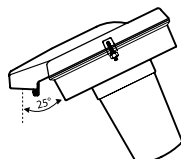
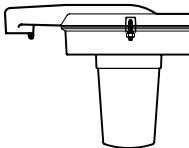
II 3 GD

ATEX / IEC IP66

LIGHTING

Ordering Information - Continued:

100 W and 150 W Incandescent or Halogen

Fixing Type	Cable Entry	Lampholder	Lamp Watts	Weight (kg)	Volume (dm ³)	Catalog Number	Old Catalog Number
Pendant							
	1 x 3/4" NPT	E27	100 W	7.4	39.0	LN1AZ102G2	095141
		E27	150 W	7.4	39.0	LN1AZ152G2	095145
Pendant Cone							
	1 x 3/4" NPT	E27	100 W	7.4	39.0	LN1DZ102G2	-
		E27	150 W	7.4	39.0	LN1DZ152G2	-
Ceiling							
	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	E27	100 W	7.4	39.0	LN1CZ10AG2	095133
		E27	150 W	7.4	39.0	LN1CZ15AG2	095137
Wall							
	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	E27	100 W	7.4	39.0	LN1WZ10AG2	095215
		E27	150 W	7.4	39.0	LN1WZ15AG2	095218
25° Angled Stanchion							
	1 x 1-1/4" NPT	E27	100 W	7.4	39.0	LN1SZ104G2	095242
		E27	150 W	7.4	39.0	LN1SZ154G2	095245
Straight Stanchion							
	1 x 1-1/4" NPT	E27	100 W	7.4	39.0	LN1RZ104G2	095257
		E27	150 W	7.4	39.0	LN1RZ154G2	095262

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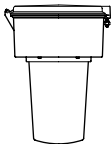
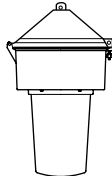
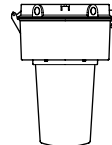
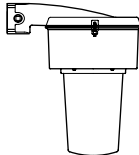
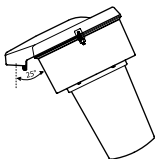
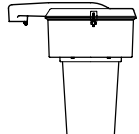
Zone 2 & 22

II 3 GD

ATEX / IEC IP66

Ordering Information - Continued:

125 W, 250 W and 400 W Mercury Vapor - 230/240 Vac 50 Hz

Fixing Type	Cable Entry	Lampholder	Lamp Watts	Weight (kg)	Volume (dm ³)	Catalog Number	Old Catalog Number
Pendant							
	1 x 3/4" NPT	E27	125 W	7.4	39.0	LN1AM122G2XJ	095142
		E40	250 W	14.0	70.0	LN3AM252G4XJ	095052
		E40	400 W	19.0	85.2	LN4AM402G4XJ	095147
Pendant Cone							
	1 x 3/4" NPT	E27	125 W	7.4	39.0	LN1DM122G2XJ	-
		E40	250 W	14.0	70.0	LN3DM252G4XJ	-
		E40	400 W	19.0	85.2	LN4DM402G4XJ	-
Ceiling							
	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	E27	125 W	7.4	39.0	LN1CM12AG2XJ	095134
		E40	250 W	14.0	70.0	LN3CM25AG4XJ	095032
		E40	400 W	19.0	85.2	LN4CM40AG4XJ	095139
Wall							
	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	E27	125 W	7.4	39.0	LN1WM12AG2XJ	095216
		E40	250 W	14.0	70.0	LN3WM25AG4XJ	095219
		E40	400 W	19.0	85.2	LN4WM40AG4XJ	095221
25° Angled Stanchion							
	1 x 1-1/4" NPT	E27	125 W	7.4	39.0	LN1SM124G2XJ	095243
		E40	250 W	14.0	70.0	LN3SM254G4XJ	095247
		E40	400 W	19.0	85.2	LN4SM404G4XJ	095251
Straight Stanchion							
	1 x 1-1/4" NPT	E27	125 W	7.4	39.0	LN1RM124G2XJ	095258
		E40	250 W	14.0	70.0	LN3RM254G4XJ	095265
		E40	400 W	19.0	85.2	LN4RM404G4XJ	095268

Lighting: Incandescent & HID Lighting

LN Series: Wellglass Luminaires – Zone 2 & 22

Zone 2 & 22

II 3 GD

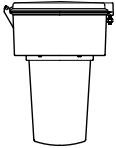
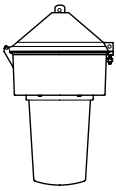
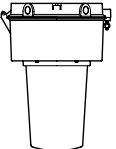
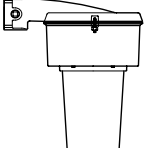
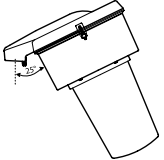
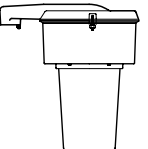
ATEX / IEC

IP66

LIGHTING

Ordering Information - Continued:

150 W, 250 W and 400 W Metal Halide - 230/240 Vac 50 Hz

Fixing Type	Cable Entry	Lampholder	Lamp Watts	Weight (kg)	Volume (dm ³)	Catalog Number	Old Catalog Number
Pendant							
	1 x 3/4" NPT	E40	150 W	9.0	55.0	LN2AH152G2XJ	095143
		E40	250 W	16.0	70.0	LN3AH252G4XJ	095146
		E40	400 W	19.0	85.2	LN4AH402G4XJ	095054
Pendant Cone							
	1 x 3/4" NPT	E40	150 W	9.0	55.0	LN2DH152G2XJ	-
		E40	250 W	16.0	70.0	LN3DH252G4XJ	-
		E40	400 W	19.0	85.2	LN4DH402G4XJ	-
Ceiling							
	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	E40	150 W	9.0	55.0	LN2CH15AG2XJ	095136
		E40	250 W	16.0	70.0	LN3CH25AG4XJ	095138
		E40	400 W	19.0	85.2	LN4CH40AG4XJ	095034
Wall							
	5 x 1" NPT with: - 4 x 1" NPT fitted plugs - 2 x 1" NPT-M20 adaptors - 2 x M20 plugs	E40	150 W	9.0	55.0	LN2WH15AG2XJ	095217
		E40	250 W	16.0	70.0	LN3WH25AG4XJ	095220
		E40	400 W	19.0	85.2	LN4WH40AG4XJ	095222
25° Angled Stanchion							
	1 x 1-1/4" NPT	E40	150 W	9.0	55.0	LN2SH154G2XJ	095244
		E40	250 W	16.0	70.0	LN3SH254G4XJ	095248
		E40	400 W	19.0	85.2	LN4SH404G4XJ	095252
Straight Stanchion							
	1 x 1-1/4" NPT	E40	150 W	9.0	55.0	LN2RH154G2XJ	095261
		E40	250 W	16.0	70.0	LN3RH254G4XJ	095266
		E40	400 W	19.0	85.2	LN4RH404G4XJ	095269

Lighting: Incandescent & HID Lighting

LN Series: Wellglass Luminaires – Zone 2 & 22

Zone 2 & 22




II 3 GD

ATEX / IEC

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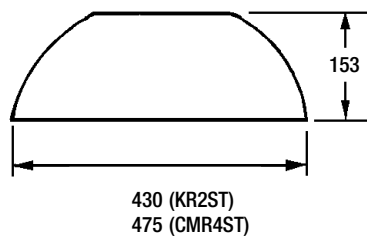
Ordering Information - Continued:

Accessories:

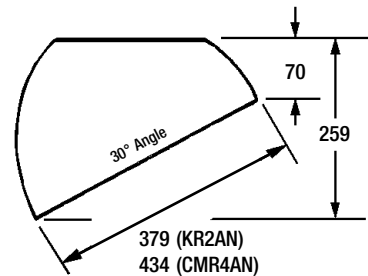
	Description	Catalog Number	Old Catalog Number
	Dome Reflectors: White fiberglass reinforced polyester		
	for LN1 and LN2 sizes	KR2ST	095070
	for LN3 and LN4 sizes	CMR4ST	095076
	30° Reflectors: White fiberglass reinforced polyester		
	for LN1 and LN2 sizes	KR2AN	095071
	for LN3 and LN4 sizes	CMR4AN	095072
	Guards:		
	Aluminum for LN1 and LN2 sizes	KRGU2	095073
	Stainless steel for LN3 and LN4 sizes	KPGU400	095074

Reflector and Guard Dimensions (mm):

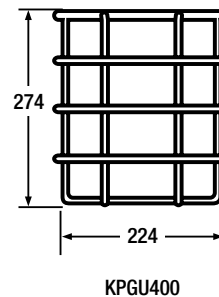
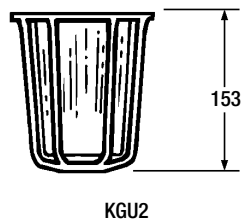
Standard Dome Reflectors



30° Angle Reflectors



Guards



Lighting: Incandescent & HID Lighting

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Zone 2 & 22

⊕ II 3 GD

ATEX / IEC

IP66

LIGHTING

Compliances:

Hazardous Area	Gas	Dust
Certified Type	LN	
Zones	2	22
Conforming to ATEX 94/9/CE	CE ⊕ II 3 G	CE ⊕ II 3 D
Symbol of Protection ATEX	Ex nR II	Ex tD A22
Symbol of Protection IEC		
T Rating	See Table No. 1	N.A.
Surface Temperature	N.A.	See Table No. 2
Ambient Temperature	-40°C to +55°C	
CE Declaration of Conformity	50217	
ATEX Certificate	LCIE 08 ATEX 6036X	
IEC Certificate	LCIE Ex 08.003X	
Other Certifications	GOST	
Index of Protection (solid and liquid)	IP66	
Impact Resistance (shock)	Use only in low risk of mechanical areas	

Standards:

Ex standards	EN / IEC 60079-0; 60079-15; 61241-0; 61241-1
Product standards	EN / IEC 60598-1
EMC standards	EN / IEC 55015; 61547
Other standards	EN / IEC 60529 (IP)

Table No. 1

		Ambient Temperatures		
		+40°C	+50°C	+55°C
70 W HPS	T Rating	T4	T4	T4
100 W HPS	T Rating	T4	T3	T3
100 W Incandescent	T Rating	T4	T3	T3
100 W Halogen	T Rating	T4	T3	T3
125 W Mercury	T Rating	T4	T3	T3
150 W HPS	T Rating	T4	T3	T3
150 W Halide	T Rating	T4	T3	T3
150 W Incandescent	T Rating	T4	T3	T3
150 W Halogen	T Rating	T4	T3	T3
250 W HPS	T Rating	T4	T4	T3
250 W Halide	T Rating	T4	T3	T3
250 W Mercury	T Rating	T4	T3	T3
400 W HPS	T Rating	T3	T3	T3
	Cable T°	–	84°C	89°C
400 W Halide	T Rating	T3	T3	T3
	Cable T°	–	82°C	87°C
400 W Mercury	T Rating	T3	T3	T3
	Cable T°	–	84°C	89°C

Table No. 2

	Dust Surface Temperature for Ambient T° = +55°C	Cable Temperature for Ambient T° = +55°C
70 W HPS	113°C	–
100 W HPS	143°C	–
100 W Incandescent	143°C	–
100 W Halogen	143°C	–
125 W Mercury	143°C	–
150 W HPS	143°C	–
150 W Halide	143°C	–
150 W Incandescent	143°C	–
150 W Halogen	143°C	–
250 W HPS	137°C	–
250 W Halide	143°C	–
250 W Mercury	143°C	–
400 W HPS	167°C	89°C
400 W Halide	171°C	87°C
400 W Mercury	171°C	89°C

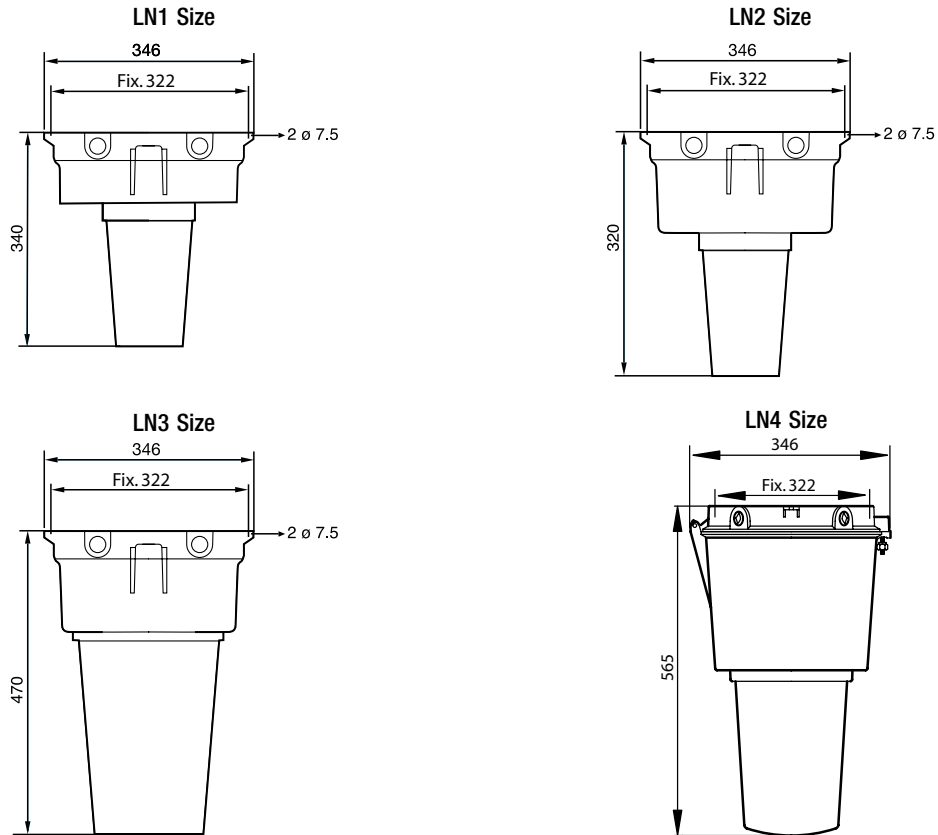
Lighting: Incandescent & HID Lighting

LN Series: Wellglass Luminaires – Zone 2 & 22

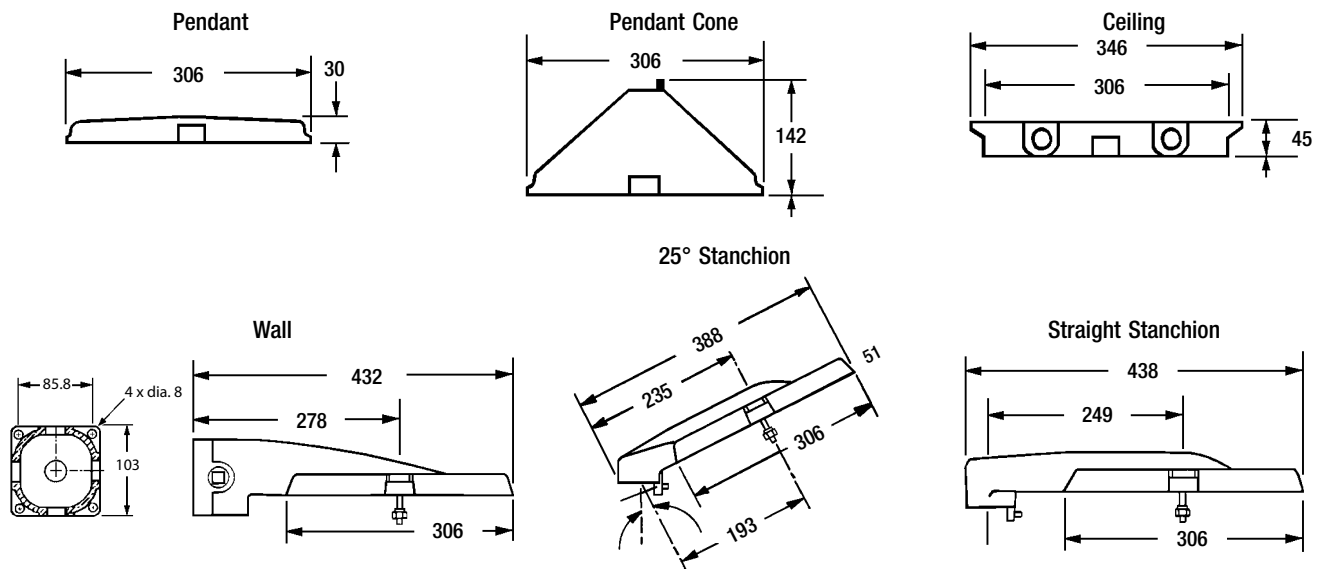
Zone 2 & 22
 II 3 GD
 ATEX / IEC
 IP66

Dimensions (mm):

Ceiling Versions:



Mounting Hoods for All Sizes:



Lighting: Incandescent & HID Lighting

LN Series: Wellglass Luminaires – Zone 2 & 22

Zone 2 & 22

II 3 GD

ATEX / IEC

IP66

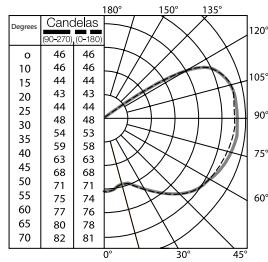
Photometric Data:

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

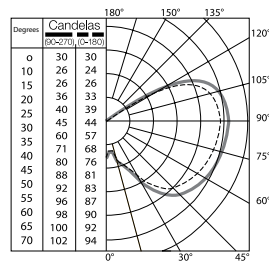
--- Longitudinal
— Transverse

High Pressure Sodium

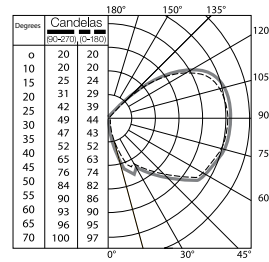
70 W HP Sodium
Efficiency 74.6%



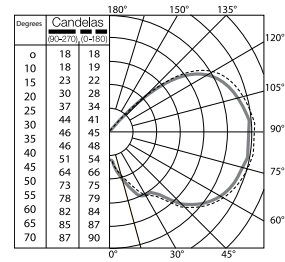
150 W HP Sodium
Efficiency 87.3%



250 W HP Sodium
Efficiency 89.1%

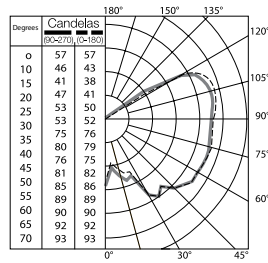


400 W HP Sodium
Efficiency 82.3%

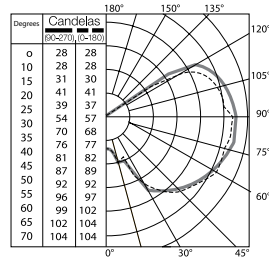


Metal Halide

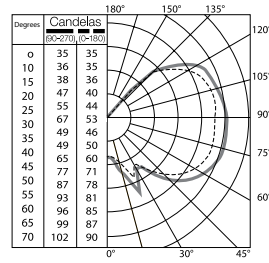
150 W Metal Halide
Efficiency 82.4%



250 W Metal Halide
Efficiency 96.2%

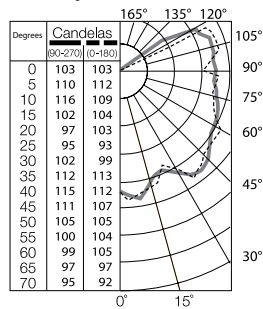


400 W Metal Halide
Efficiency 89.8%



Incandescent or Halogen

150 W HP Incandescent Halogen
Efficiency 90.6%



Mercury Vapor

250 W Mercury Vapor
Efficiency 76%

