

Lighting: H.I.D. (High Intensity Discharge) Lighting Fixture, NMV, NPS, NMH, NMT Series

Restricted Breathing and Dust protection by enclosure

Zone 2 – 21 & 22

Application

H.I.D. lighting fixtures are used;

- In hazardous areas designated as Zone 2, Zone 21, and Zone 22.
- In heavy process industries where flammable or explosive vapors, gases, or combustible dusts are present.

Specification

Body material : Marine grade copper-free aluminium alloy with polyester powder coated, RAL 7032 (grey)
Glass globe : Borosilicate glass
Guard : Stainless steel, SS 304
Sealing (O-ring) : Silicone

Technical Data

Hazardous Area	Gas	Dust
Zones	2	21 & 22
Equipment Group/Category	II 3G	II 2D
Symbol of Protection	Ex nR IIC T** Gc	Ex tb IIIC T** °C Db
Conformity to Standards	EN IEC 60079-0, EN IEC 60079-15, EN IEC 60079-31	
Ambient Temperature	-20°C to +55°C	
Index of Protection	IP66	
Mounting	Ceiling, Pendant, Stanchion and Bracket mounting	
Connection	L, N and PE ; for 1-4 mm ² cable (Through wiring system with an extra terminal block for cable connection at both ends.)	
Rated Voltage	220-230 V AC ±5%, 50 Hz	

** See temperature class on catalogue number table.

Celling mounting

Pendant mounting



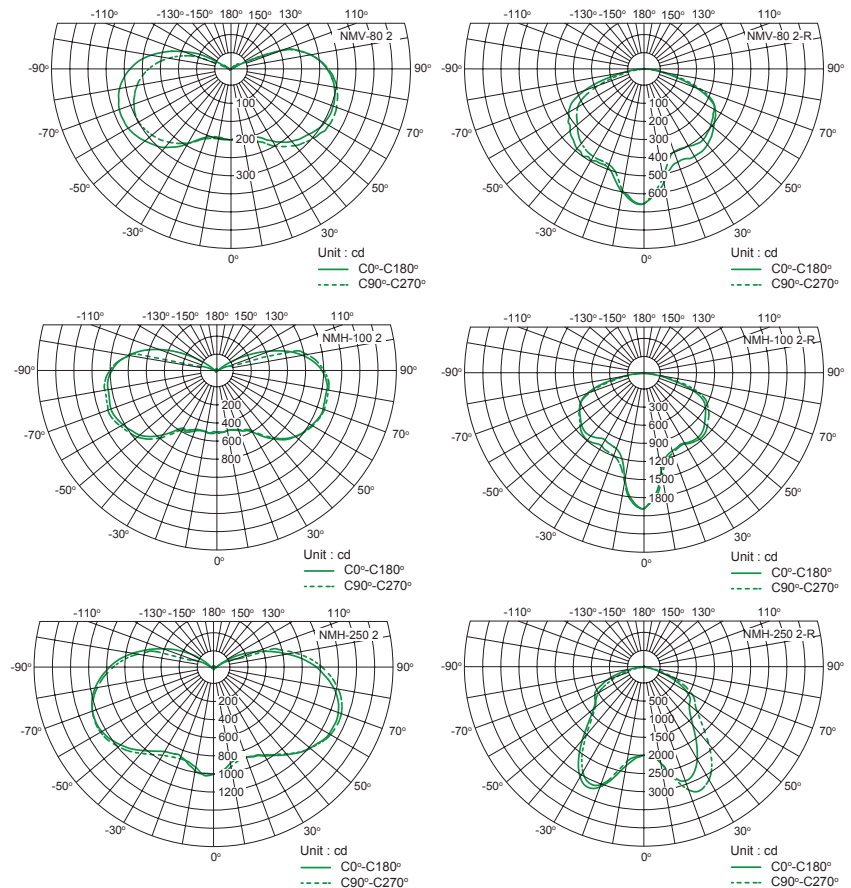
Stanchion mounting



Bracket mounting



Luminous Intensity Distribution Curve



Complete photometrics, please contact us.

Alloy Industry Co., Ltd.

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Catalogue Number Logic

Series	Lamp watt	Voltage	Accessories	Mounting type	Entry threads
NMV	Mercury vapor	2 220 V AC, 50 Hz	R Reflector	C Ceiling	M1 M20x1.5
NPS	High pressure sodium	3 230 V AC, 50 Hz		P Pendant	M2 M25x1.5
NMH	Metal halide	4 220/230 V AC 50Hz		S Stanchion	N1 1/2" NPT
NMT	Mercury tungsten			B Bracket	N2 3/4" NPT

Ordering Requirements

Cat. No.	Lamp watt	Voltage	Lamp/ Ballast/ Ignitor	Temp. Class (for zone 2)		Max. Surface Temp.* (for zone 21 & 22)		Wiring diagram	
				Ta 40°C	Ta 55°C	Ta 40°C	Ta 55°C		
Mercury Vapor Lamp									
NMV-80 2 - □ □ - □ □	80 W	220 V AC, 50 Hz	HPL-N 80W / Q80.587 / –	T4	T3	T135°C	T200°C	Dia-B	
			HPL-N 80W / OMB80-35 / –	T4	T3	T135°C	T200°C	Dia-B	
NMV-125 2 - □ □ - □ □	125 W		HPL-N 125W / Q125.549 / –	T4	T3	T135°C	T200°C	Dia-B	
NMV-250 2 - □ □ - □ □	250 W		HPL-N 250W / Q250.513 / –	T3	T2	T200°C	T250°C	Dia-B	
NMV-400 2 - □ □ - □ □	400 W		HPL-N 400W / Q400.616 / –	T2	–	T250°C	–	Dia-B	
NMV-80 3 - □ □ - □ □	80 W	230 V AC, 50 Hz	HPL-N 80W / Q80.588 / –	T4	T3	T135°C	T200°C	Dia-B	
NMV-125 3 - □ □ - □ □	125 W		HPL-N 125W / Q125.568 / –	T4	T3	T135°C	T200°C	Dia-B	
NMV-250 3 - □ □ - □ □	250 W		HPL-N 250W / Q250.528 / –	T3	T2	T200°C	T250°C	Dia-B	
High Pressure Sodium Lamp									
NPS-70 2 - □ □ - □ □	70 W	220 V AC, 50 Hz	SON-70WI / NaHJ70.320 /-	T4	T4	T135°C	T135°C	Dia-B	
NPS-150 2 - □ □ - □ □	150 W		SON-150W / NaHJ150.355 / Z400M	T3	T3	T200°C	T200°C	Dia-A	
NPS-250 2 - □ □ - □ □	250 W		SON-250W / NaHJ250.160 / Z400M	T3	T2	T200°C	T250°C	Dia-A	
NPS-400 2 - □ □ - □ □	400 W		SON-400W / NaHJ400.162 / Z400M	T2	–	T250°C	–	Dia-A	
NPS-70I 3 - □ □ - □ □	70 W	230 V AC, 50 Hz	SON-70WI / NaHJ70.158 / –	T4	T4	T135°C	T135°C	Dia-B	
NPS-70 3 - □ □ - □ □	70 W		SON-70W / NaHJ70.158 / Z400M	T4	T4	T135°C	T135°C	Dia-A	
NPS-150 3 - □ □ - □ □	150 W		SON-150W / NaHJ150 100.973 / Z400M	T3	T3	T200°C	T200°C	Dia-A	
NPS-400 3 - □ □ - □ □	400 W		SON-400W / NaHJ400.006 / Z400M	T2	–	T135°C	T200°C	Dia-A	
Metal Halide Lamp									
NMH-70 2 - □ □ - □ □	70 W	220 V AC, 50 Hz	MH 70W / NaHJ70.320 / Z400M	T4	T3	T135°C	T200°C	Dia-A	
			MH 70W / OMS 70-T35 / Z400M	T4	T3	T135°C	T200°C	Dia-A	
NMH-100 2 - □ □ - □ □	100 W		MH 100W / OMS 100 / Z400M	T3	T3	T200°C	T200°C	Dia-A	
NMH-150 2 - □ □ - □ □	150 W		MH 150W / OMS 150 / Z400M	T3	T3	T200°C	T200°C	Dia-A	
NMH-250 2 - □ □ - □ □	250 W		HPI PLUS-250W BU / Q250.513 / Z400M	T3	T2	T200°C	T250°C	Dia-A	
NMH-400 2 - □ □ - □ □	400 W		HPI PLUS-400W BUS / Q400.616 / –	T2	-	T135°C	T200°C	Dia-B	
NMH-70 3 - □ □ - □ □	70 W	230 V AC, 50 Hz	MH 70W / NaHJ70.128 / Z400M	T4	T3	T135°C	T200°C	Dia-A	
NMH-250 3 - □ □ - □ □	250 W		HPI PLUS-250W BU / Q250.528 / Z400M	T3	T2	T200°C	T250°C	Dia-A	
Mercury Tungsten Lamp									
NMT-160 4 - □ □ - □ □	160 W	220/ 230 V AC,	ML 160W / – / –	T3	T2	T200°C	T250°C	Dia-C	
NMT-250 4 - □ □ - □ □	250 W	50 Hz	ML 250W / – / –	T2	–	T250°C	–	Dia-C	

Remark* : The maximum surface temperatures are specified for dust free condition. The dust layer which may cover around the lighting fixture will affect to higher surface temperature.

Wiring Diagram

Diagram-A

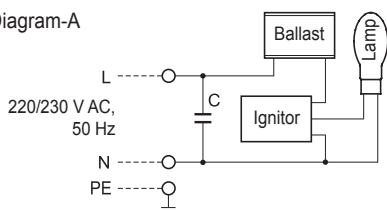


Diagram-B

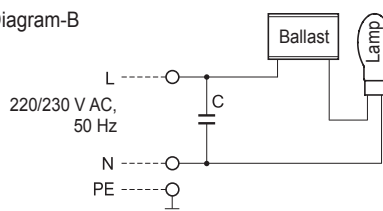
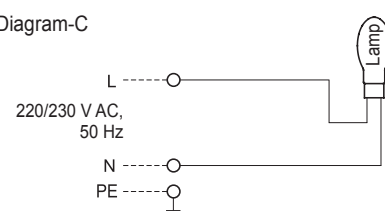


Diagram-C



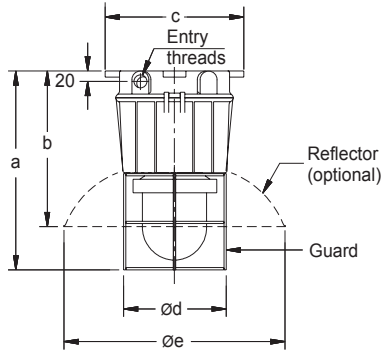
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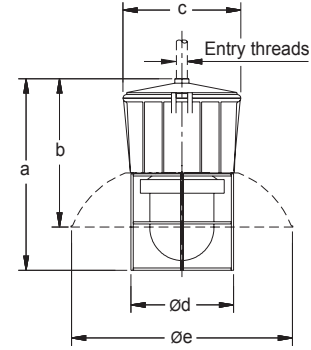
Dimensions

Ceiling mounting



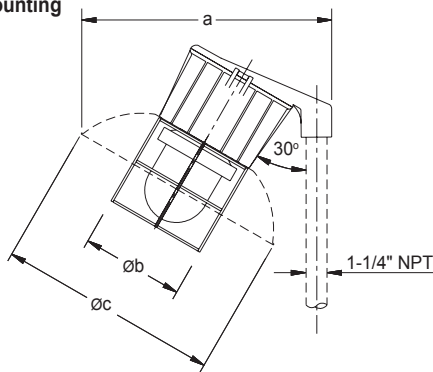
Lamp watts	Dimensions in mm					Approx. weight (kg)
	a	b	c	ød	øe	
Mercury vapor lamp						
80 W, 125 W	328	254	228	175	360	4.24
250 W	473	395	282	218	450	12.15
400 W	510	382	341	286	504	16.55
High pressure sodium lamp						
70 W	328	254	228	175	360	8.39
150 W, 250 W	473	395	282	218	450	12.25
400 W	510	382	341	286	504	18.35
Metal halide Lamp						
70 W, 100 W	328	254	228	175	360	4.39
150 W, 250 W	473	395	282	218	450	12.15
400 W	510	382	341	286	504	16.55
Mercury tungsten lamp						
160 W	473	395	282	218	450	12.0
250 W	510	382	341	286	504	12.0

Pendant mounting



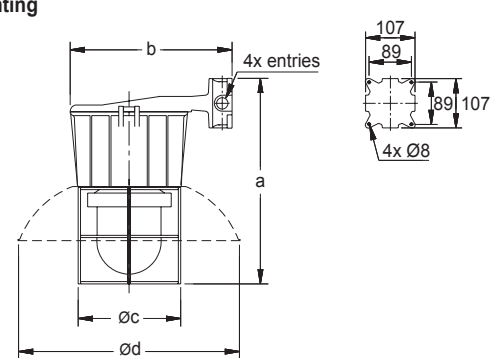
Lamp watts	Dimensions in mm					Approx. weight (kg)
	a	b	c	ød	øe	
Mercury vapor lamp						
80 W, 125 W	336	262	200	175	360	4.24
250 W	466	388	240	218	450	12.15
400 W	514	386	315	286	504	16.55
High pressure sodium lamp						
70 W	336	262	200	175	360	4.39
150 W, 250 W	466	388	240	218	450	12.25
400 W	514	386	315	286	504	18.35
Metal halide lamp						
70 W, 100 W	336	262	200	175	360	4.39
150 W, 250 W	466	388	240	218	450	12.15
400 W	514	386	315	286	504	16.55
Mercury tungsten lamp						
160 W	466	388	240	218	450	12.0
250 W	514	386	315	286	504	12.0

30° Stanchion mounting



Lamp watts	Dimensions in mm			Approx. weight (kg)
	a	øb	øc	
Mercury vapor lamp				
80 W, 125 W	399	175	360	4.39
250 W	538	218	450	12.35
400 W	597	286	504	16.55
High pressure sodium lamp				
70 W	399	175	360	4.39
150 W, 250 W	538	218	450	12.35
400 W	597	286	504	18.55
Metal halide lamp				
70 W, 100 W	399	175	360	4.39
150 W, 250 W	538	218	450	12.55
400 W	597	286	504	16.55
Mercury tungsten lamp				
160 W	538	218	450	12.0
250 W	597	286	504	12.0

Bracket mounting



Lamp watts	Dimensions in mm				Approx. weight (kg)
	a	b	øc	ød	
Mercury vapor lamp					
80 W, 125 W	347	279	175	360	4.57
250 W	479	312	218	450	12.55
400 W	532	428	286	504	16.85
High pressure sodium lamp					
70 W	347	279	175	360	4.39
150 W, 250 W	479	312	218	450	12.55
400 W	532	428	286	504	18.35
Metal halide lamp					
70 W, 100 W	347	279	175	360	4.39
150 W, 250 W	479	312	218	450	12.55
400 W	382	341	286	504	16.55
Mercury tungsten lamp					
160 W	479	312	218	450	12.0
250 W	532	428	286	504	12.0