Hazlux® 5
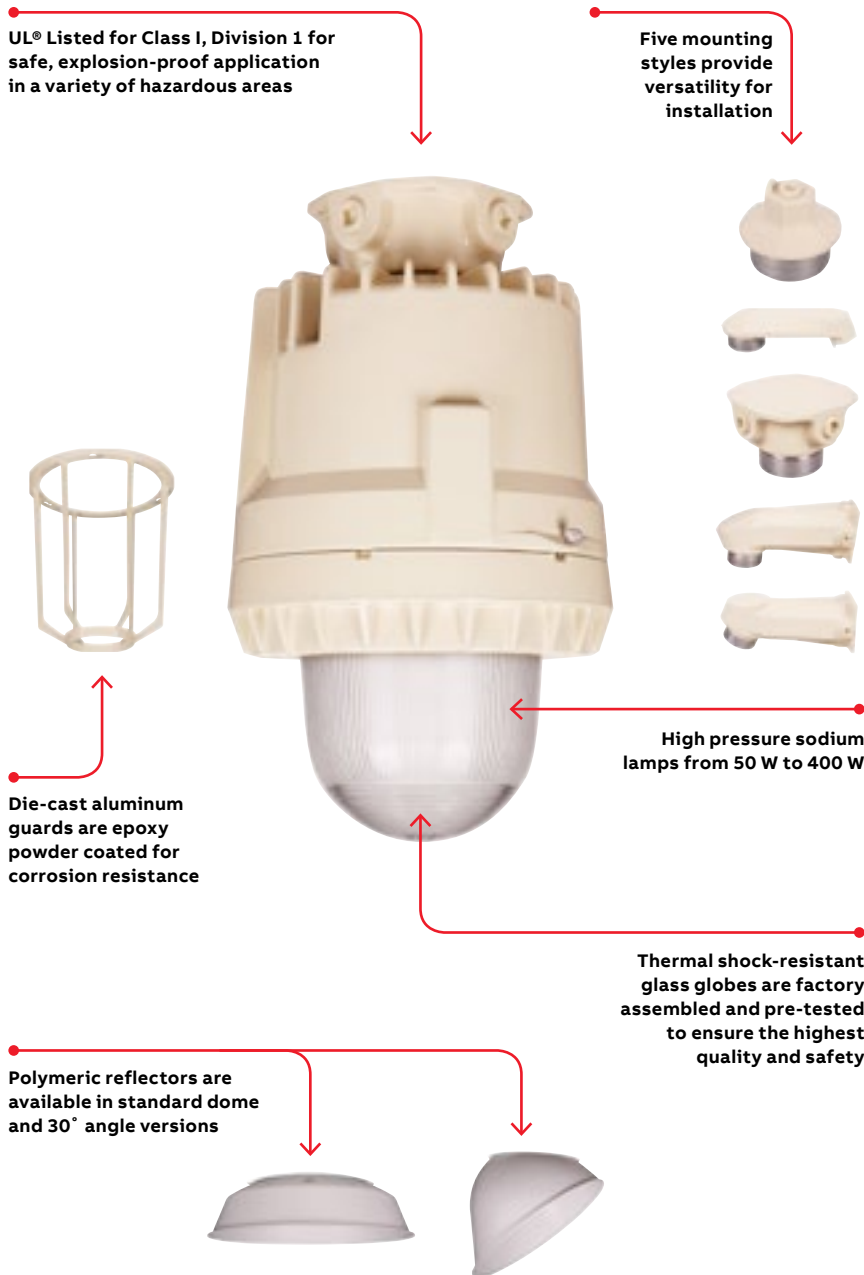# HID

Your go-to versatile explosion-proof lighting fixture, ideal for use in marine and wet locations, and a variety of hazardous areas.

UL® Listed for Class I, Division 1 for safe, explosion-proof application in a variety of hazardous areas

Five mounting styles provide versatility for installation

Die-cast aluminum guards are epoxy powder coated for corrosion resistance

High pressure sodium lamps from 50 W to 400 W

Thermal shock-resistant glass globes are factory assembled and pre-tested to ensure the highest quality and safety

Polymeric reflectors are available in standard dome and 30˚ angle versions

CLASSIFICATION

CLASS I	
Division 1	Groups C, D
Division 2	Groups A, B, C, D
Zone 1	Groups IIC, IIB, IIA
CLASS II	
Division 1	Groups E, F, G
Division 2	Groups E, F, G

Classification may vary upon light source and wattage. For details, see thermal performance chart on p. 30-31.

CERTIFICATIONS

MARINE
UL LISTED
E68736

UL LISTED
E65285

UL844
UL1598A
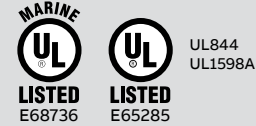
Outdoor wet locations
Temperature range: -30 °C to 40 °C

Applications
Chemical plants
Oil refineries
Waste treatment facilities
Automotive manufacturing plants
Paint manufacturing facilities
Paint spray locations
Chemical & plastic mixing and storage areas
Pipeline pumping stations
Oil and gas terminals
Defense and government facilities

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Hazlux® 5 HID
Key features and benefits

Features
- UL® Listed for Class I, Division 1 for safe, explosion-proof application in a variety of hazardous areas
- Factory-sealed assembly meets code requirements without the need for external sealing fittings
- Dual-pitch Acme threads make assembly easy and faster than designs with standard V-cut threads, greatly reducing the risk of cross threading
- Factory-wired connection block means ballast is pre-wired to lower half of electrical connection block, allowing wireless connection of ballast housing to mounting module
- Five mounting styles – pendant, ceiling, wall, angle stanchion and bulkhead – provide versatility for installation
- Thermal shock-resistant glass globes are factory assembled and pre-tested to ensure the highest quality and safety
- Die-cast aluminum guards are epoxy powder coated for corrosion resistance and have keyhole slots for easy attachment to stainless steel screws
- High-pressure sodium in wattages from 50 to 400 watts
- Polymeric reflectors are available in standard dome and 30˚ angle versions
- UL paint spray listed in wattages up to 100 watts

Wattages and voltages
- High-pressure sodium: 50–400 watts
- All luminaires: multi-tap standard (120, 208, 240, 277 V), wired 120 V (other voltages, frequencies available)

Materials and finishes
- Ballast housing: copper-free aluminum, powder finish
- Mounting modules: copper-free aluminum, powder finish
- Hardware: stainless steel
- Globes: tempered glass
- Guard: copper-free aluminum, powder finish
- Reflectors: fiberglass-reinforced

—

Ceiling mount photometry

Reference data	
Catalog number	XSO10H090G-C2-E
Lamp	100W HPS ED23 1/2
Lamp lumens	9500
Input watts	130
Luminaire lumens	7162
Efficiency	75%
Efficacy rating (LER)	55.1
Spacing criterion (0–180)	2.66
Spacing criterion (90–270)	2.66
Spacing criterion (diagonal)	2.74

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Candlepower curve

1080
810
540
270
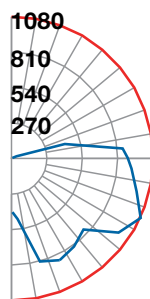
Reference data	
Catalog number	XSO10H090G-C2-E & VR31P
Lamp	100W HPS ED23 1/2
Lamp lumens	9500
Input watts	130
Luminaire lumens	6254
Efficiency	66%
Efficacy rating (LER)	48.1
Spacing criterion (0–180)	1.60
Spacing criterion (90–270)	1.60
Spacing criterion (diagonal)	1.70

—
Candlepower curve

1700
1275
850
425

—
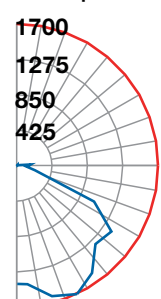
Hazlux® 5 HID
Fixture assembly guide

1

Mounting style

Pendant mount   Stanchion mount   Ceiling mount   Wall mount   Bulkhead mount

2

Globe assemblies

Up to 150 HPS   250 HPS and 400 HPS

3

Guards

Cast guard
for 150 HPS   Cast guard
for 250 HPS

4

Optional reflectors
(sold separately)

Standard dome   30° Angle reflector

—

Individual components

—

Mounting options

Part number	Description	Conduit hub size
XP2	Pendant mount	¾"
XP3	Pendant mount	1"
XS4	Stanchion mount	1¼"
XS5	Stanchion mount	1½"
XC2	Ceiling mount	¾"
XC3	Ceiling mount	1"
XB2	Wall mount	¾"
XB3	Wall mount	1"
XJ2	Bulkhead mount	¾"
XJ3	Bulkhead mount	1"

—

Replacement globe assemblies[1]

Part number	Description
XGSA44	Hazlux 5 replacement globe assembly – up to 150 HPS
XGSA44A	Hazlux 5 replacement globe assembly – 250 HPS & 400 HPS

[1] For stainless steel inserts, please add "SI" to part no. (ex: XGSA44SI)

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Guards

Part number	Description
XGU44	Cast aluminum guard
VGU31[2]	Cast aluminum guard

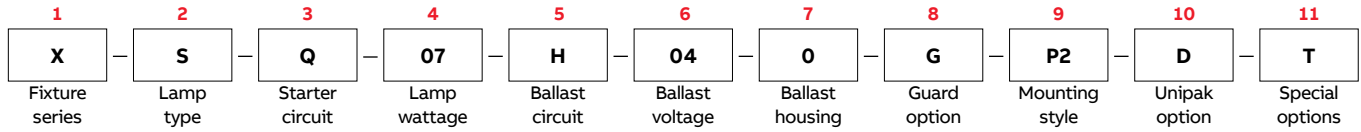[2] Used on all 400-watt fixtures and 250-watt HPS fixtures

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Reflectors

Part number	Description
VR31P	Standard dome, fiberglass-reinforced polyester
VRA31P	30° Angle reflector, fiberglass-reinforced polyester

Reflectors are shipped bulk unless specified.

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Hazlux® 5 HID
Numbering system

Unipak™= Ballast tank + optics and mountings + options (if necessary)

1	2	3	4	5	6	7	8	9	10	11
X	S	Q	07	H	04	0	G	P2	D	T
Fixture series	Lamp type	Starter circuit	Lamp wattage	Ballast circuit	Ballast voltage	Ballast housing	Guard option	Mounting style	Unipak option	Special options

—

Ballast tank

Part	Part number	Description
1 Fixture series	X	Hazlux 5 fixture
2 Lamp type	S	High-pressure sodium
3 Starter circuit/ quartz option	Ø	Standard fixture (without options)
	Q	Quartz auxiliary option (not hazardous rated)
	R	Fixture with instant restart option (70, 100 and 150 HPS only)
4 Lamp wattage (high pressure sodium lamp)	05	50 W ED23 1/2
	07	70 W ED23 1/2
	10	100 W ED23 1/2
	15	150 W ED23 1/2
	25	250 W ED18
	40	400 W ED18
5 Ballast circuit	C	Constant wattage autotransformer (CWA)
	I	Constant wattage insulated transformer (CWI)
	H	High reactance
	P	Reactor
6 Ballast voltage	04	Multi-tap 120/208/240/277 volt
	09	120/277/347V Volt (CSA)
	12	120 Volt
	20	208 Volt
	24	240 Volt
	27	277 Volt, 60 Hz
	34	347 Volt
	48	480 Volt
7 Ballast housing style	Ø	Standard housing
	S	Standard housing with stainless steel inserts

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Optics and mountings

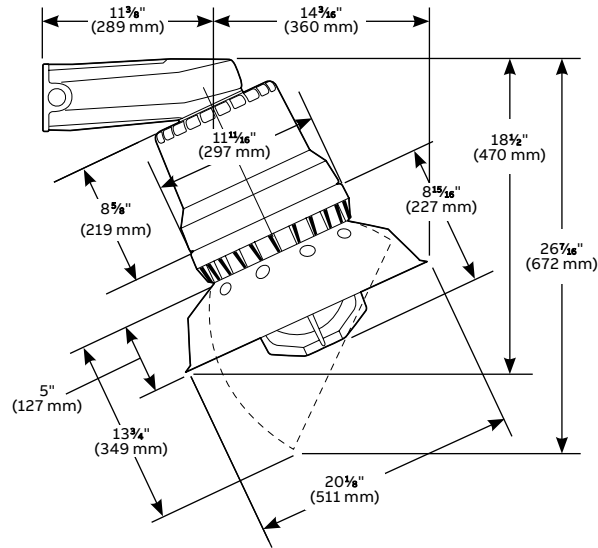| Part	Part number	Description
8 Guard option	G	Cast guard (omit "G" if guard not required)
9 Mounting style	P2	¾" Pendant
	P3	1" Pendant
	C2	¾" Ceiling
	C3	1" Ceiling
	B2	¾" Wall
	B3	1" Wall
	J2	¾" Bulkhead
	J3	1" Bulkhead
	S4	1¼" 25° Stanchion
	S5	1½" 25° Stanchion
10 Unipak options	D	Unipak with dual arc lamp
	E	Unipak with clear lamp
	U	Unipak no lamp

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Options

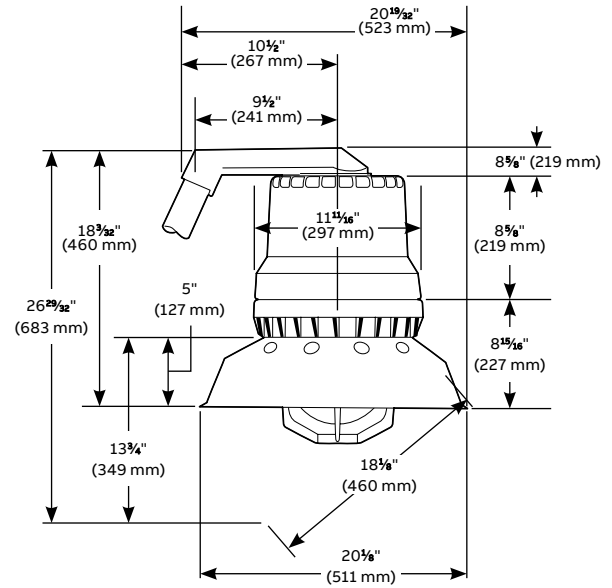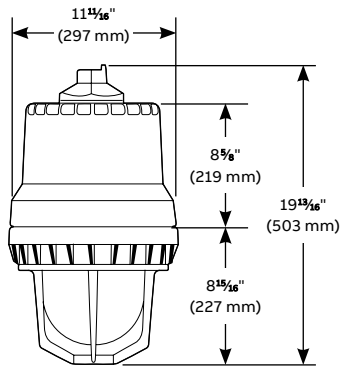| Part	Part number	Description
11 Special options	T	Hazcote® black custom anti-corrosion coating (consult ABB rep)
	PS	Paint spray label (100 W max.)
	F	Fuse block with fuse
	C	Canadian market

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Hazlux® 5 HID

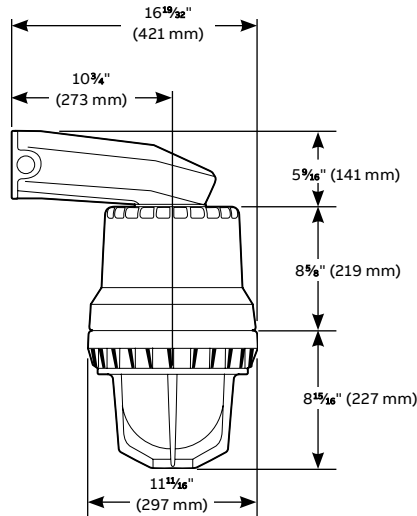Dimensions

Bulkhead mount with globe, guard and reflector

11⅜"
(289 mm)

14³⁄₁₆"
(360 mm)

11¹¹⁄₁₆"
(297 mm)

8⅝"
(219 mm)

8¹⁵⁄₁₆"
(227 mm)

18½"
(470 mm)

26⁷⁄₁₆"
(672 mm)

5"
(127 mm)

13¾"
(349 mm)

20⅛"
(511 mm)

Stanchion mount with globe, guard and reflector

20¹⁹⁄₃₂"
(523 mm)

10½"
(267 mm)

9½"
(241 mm)

8⅝" (219 mm)

11¹¹⁄₁₆"
(297 mm)

8⅝"
(219 mm)

18³⁄₃₂"
(460 mm)

26²⁹⁄₃₂"
(683 mm)

5"
(127 mm)

8¹⁵⁄₁₆"
(227 mm)

13¾"
(349 mm)

18⅛"
(460 mm)

20⅛"
(511 mm)

Pendant mount with globe and guard

11¹¹⁄₁₆"
(297 mm)

8⅝"
(219 mm)

19¹³⁄₁₆"
(503 mm)

8¹⁵⁄₁₆"
(227 mm)

Wall mount with globe and guard

16¹⁹⁄₃₂"
(421 mm)

10¾"
(273 mm)

5⁹⁄₁₆" (141 mm)

8⅝" (219 mm)

8¹⁵⁄₁₆" (227 mm)

11¹¹⁄₁₆"
(297 mm)

Ceiling mount with globe and guard

11¹¹⁄₁₆"
(297 mm)

2⁹⁄₁₆" (65 mm)

8⅝"
(219 mm)

20⅛"
(511 mm)

8¹⁵⁄₁₆"
(227 mm)

Template for bulkhead for wall mount

5"
(127 mm)

5⅜"
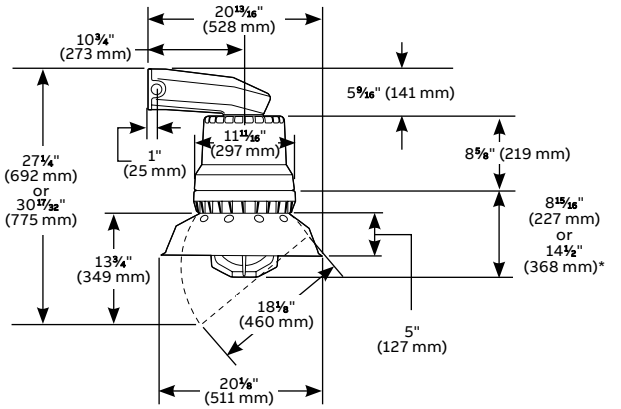(137 mm)

4"
(102 mm)

3⅝"
(92 mm)
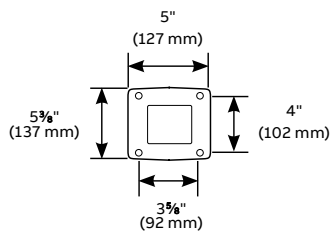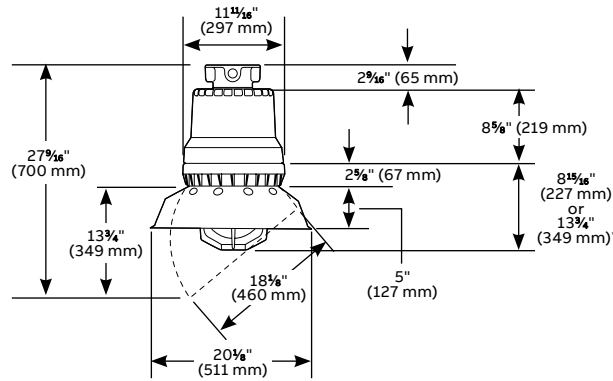
Hazlux® 5 HID
Dimensions

Pendant mount with globe, guard and reflector
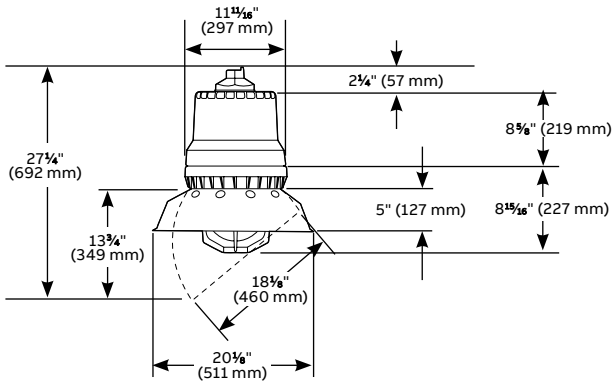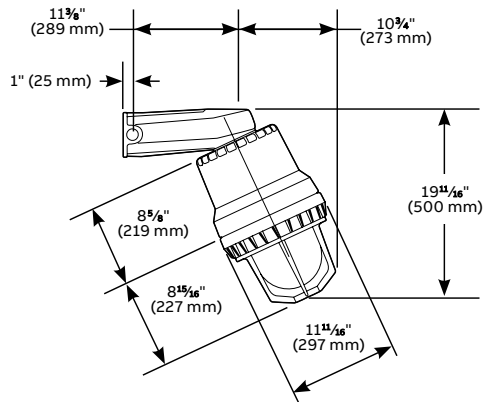

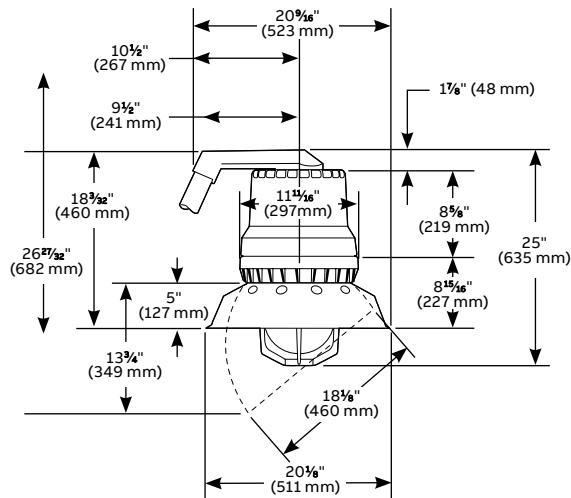**Wall mount with globe, guard and reflector**

Ceiling mount with globe, guard and reflector
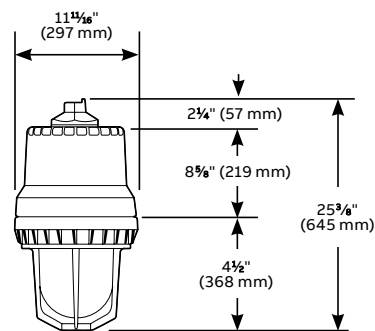

Bulkhead mount with globe and guard

Stanchion mount with globe, guard and reflector

Pendant mount with globe and guard

Hazlux® 5 HID
Thermal performance data

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Class I, Division 1, Group C & D – Maximum external fixture temperature in °C at 40˚C | ambient in free air

		50 W (S68 lamp)		70 W (S62 lamp)		100 W (S54 lamp)		150 W (S55 or S56 lamp)	
		Lamp	Lamp w/ auxiliary qtz.	Lamp	Lamp w/ auxiliary qtz.	Lamp	Lamp w/ auxiliary qtz.	lamp	Lamp w/ auxiliary qtz.
Configuration		T no.	T no.	T no.	T no.	T no.	T no.	T no.	T no.
Globe and guard	A	T6	T4A	T6	T4A	T5	T4	T4	T4A
Globe, guard and dome reflector	B	T6	T4A	T6	T4A	T5	T4	T4	T3C
Globe, guard and angle reflector	C	T6	T4A	T6	T4A	T5	T3C	T4	T3C

High pressure sodium / nameplate marked with rating based on hottest fixture congestion

—

Class II & III*, Division 1 & 2 – Maximum external fixture temperature in °C at 40˚C | ambient in free air

		50 W (S68 lamp)		70 W (S62 lamp)		100 W (S54 lamp)		150 W (S55 or S56 lamp)	
		Lamp	Lamp w/ auxiliary qtz.	Lamp	Lamp w/ auxiliary qtz.	Lamp	Lamp w/ auxiliary qtz.	Lamp	Lamp w/ auxiliary qtz.
Configuration		Class II groups	Class II groups	Class II groups	Class II groups	Class II groups	Class II groups	Class II groups	Class II groups
Globe and guard	A	EFG	EFG	EFG	EFG	EFG	EF	EFG	EF
Globe, guard and dome reflector	B	EFG	EFG	EFG	EFG	EFG	EF	EFG	EF
Globe, guard and angle reflector	C	EFG	EFG	EFG	EFG	EFG	EF	EFG	EF

High pressure sodium / nameplate marked with rating based on hottest fixture congestion

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Class I, Division 1, Group C & D – Maximum external fixture temperature in °C at 55˚C | ambient in free air

		50 W (S68 lamp)		70 W (S62 lamp)		100 W (S54 lamp)		150 W (S55 or S56 lamp)	
		Lamp	Lamp w/ auxiliary qtz.	Lamp	Lamp w/ auxiliary qtz.	Lamp	Lamp w/ auxiliary qtz.	Lamp	Lamp w/ auxiliary qtz.
Configuration		T no.	T no.	T no.	T no.	T no.	T no.	T no.	T no.
Globe and guard	A	T6	T4	T5	T4	T5	T4A	–	T4A
Globe, guard and dome reflector	B	T6	T4	T5	T4	T5	T4A	–	T4A
Globe, guard and angle reflector	C	T6	T4	T5	T4	T5	T4A	–	T4A

High pressure sodium / nameplate marked with rating based on hottest fixture congestion

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Hazlux® 5 HID
Thermal performance data

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**Class I, Division 1, Group C & D – Maximum external fixture temperature in °C at 65˚C | ambient in free air**

High pressure sodium / nameplate marked with rating based on hottest fixture congestion							
		50 W (S68 lamp)		70 W (S62 lamp)		100 W (S54 lamp)	
		Lamp	Lamp w/ auxiliary qtz.	Lamp	Lamp w/ auxiliary qtz.	Lamp	Lamp w/ auxiliary qtz.
Configuration		T no.	T no.	T no.	T no.	T no.	T no.
Globe and guard	A	T5	–	T4A	–	T4A	–
Globe, guard and dome reflector	B	T5	–	T4A	–	T4A	–
Globe, guard and angle reflector	C	T5	–	T4A	–	T4A	–

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A

Globe and guard

B

Globe, guard and dome reflector

C
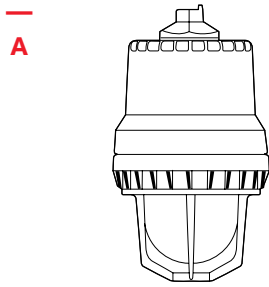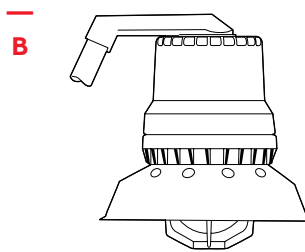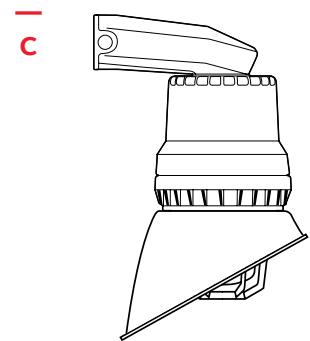
Globe, guard and angle reflector

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Hazlite™ 5 (400 series) thermal data

This data includes globe, guard and reflector				
			Class I	Supply wire
Lamp type	Ambient temperature (°C)	Groups	Temp. code	suitable temperature (°C)
250 Watt HPS type S50	40	C, D	T4A	85
400 Watt HPS type S51	40	C, D	T4A	85