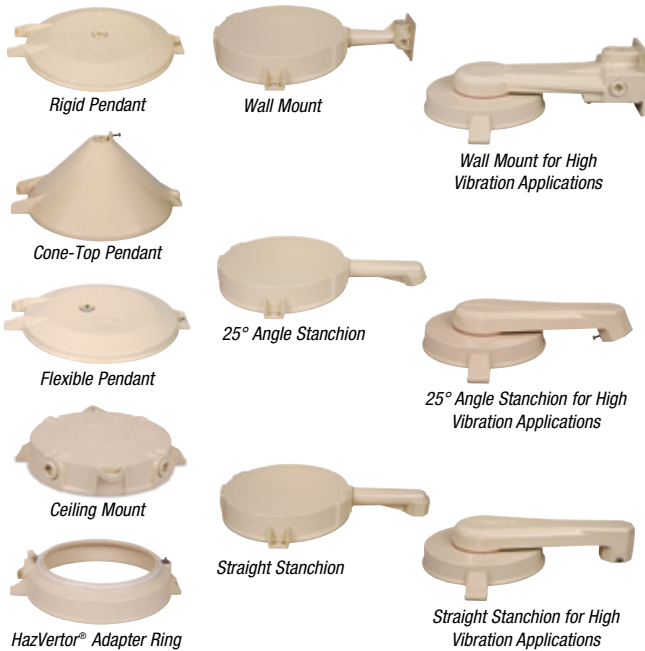


Area Lighting — Hazlux® 3 Class I, Div 2

Mounting Options



CAT. NO.	DESCRIPTION	CONDUIT HUB SIZE
VP2	Rigid Pendant	¾"
VP3		1"
VA2	Cone-Top Pendant	¾"
VA3		1"
VF2	Flexible Pendant	¾"
VF3		1"
VC2	Ceiling Mount	¾"
VC3		1"
VB2	Wall Mount	¾"
VB3		1"
VB2-VIB	Wall Mount for High Vibration Applications	¾"
VB3-VIB		1"
VS4	25° Angle Stanchion	1¼"
VS5		1½"
VS4-VIB	25° Angle Stanchion for High Vibration Applications	1¼"
VS5-VIB		1½"
VL4	Straight Stanchion	1¼"
VL5		1½"
VL4-VIB	Straight Stanchion for High Vibration Applications	1¼"
VL5-VIB		1½"
HV1	HazVerter Adapter Ring	N/A

Globes or Refractors



CAT. NO.	DESCRIPTION
VGT22	5½"-dia. Heat-Resistant Globe (250W max.)
VGT22TS	5½"-dia. Heat-Resistant Globe (250W max.) Coated with Tuff-Skin®
VRF22C5	12"-dia. IES Type V Refractor, 5½" thread
VR22CBDL	Low-Bay Refractor with Plastic Lens (Non-UL)

Reflectors or Exit Sign



CAT. NO.	DESCRIPTION
VR22P	Standard Dome, Fiberglass-Reinforced Polyester
VRA22P	30° Angle Reflector, Fiberglass-Reinforced Polyester
VRE22	Three-Sided Exit Sign

Guards

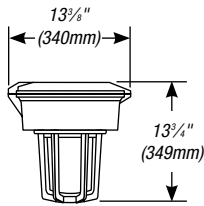


CAT. NO.	DESCRIPTION
VGU22P	Polymeric Guard for VGT22 Series Globe
VGU22	Cast Guard for VGT22 Series Globe
VGR48	Steel Wire Guard for All VRF Series 12" Refractors

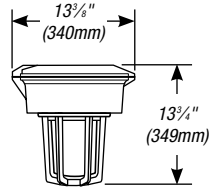
Tuff-Skin is a registered trademark of Thomas Manufacturing Corp.

Area Lighting — Hazlux® 3 Class I, Div 2

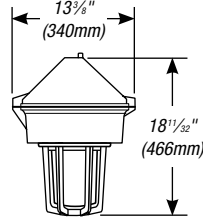
Dimensions — Standard Ballast Housing with Globe and Guard



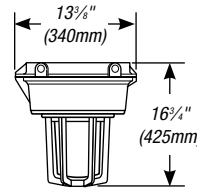
Rigid Pendant



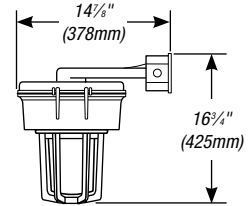
Flexible Pendant



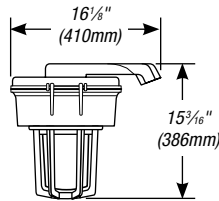
Cone-Top Pendant



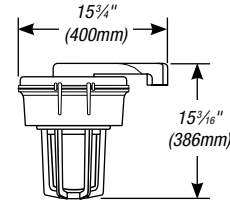
Ceiling Mount



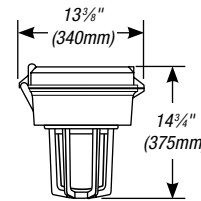
Wall Mount



25° Angle Stanchion Mount

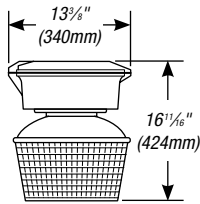


Straight Stanchion

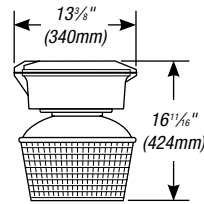


HazVertor® Ring

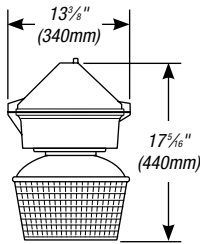
Dimensions — Standard Ballast Housing with 12" Refractor and Guard



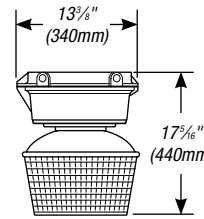
Rigid Pendant



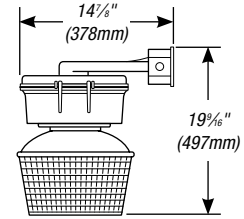
Flexible Pendant



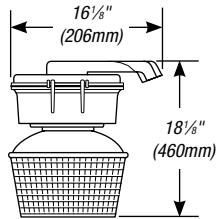
Cone-Top Pendant



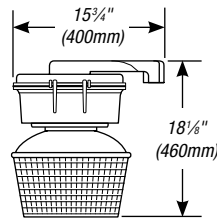
Ceiling Mount



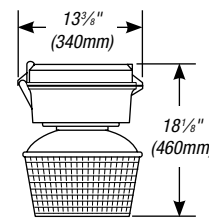
Wall Mount



25° Angle Stanchion Mount



Straight Stanchion



HazVertor® Ring

Class I — Zone 2, Groups IIC, IIB, IIA
 — Division 2, Groups A, B, C and D
 Class II — Division 1 and 2, Groups E, F and G
 Class III

- UL® Listed (UL1598A) for Marine Locations
- UL844
- NEMA 4X, IP66



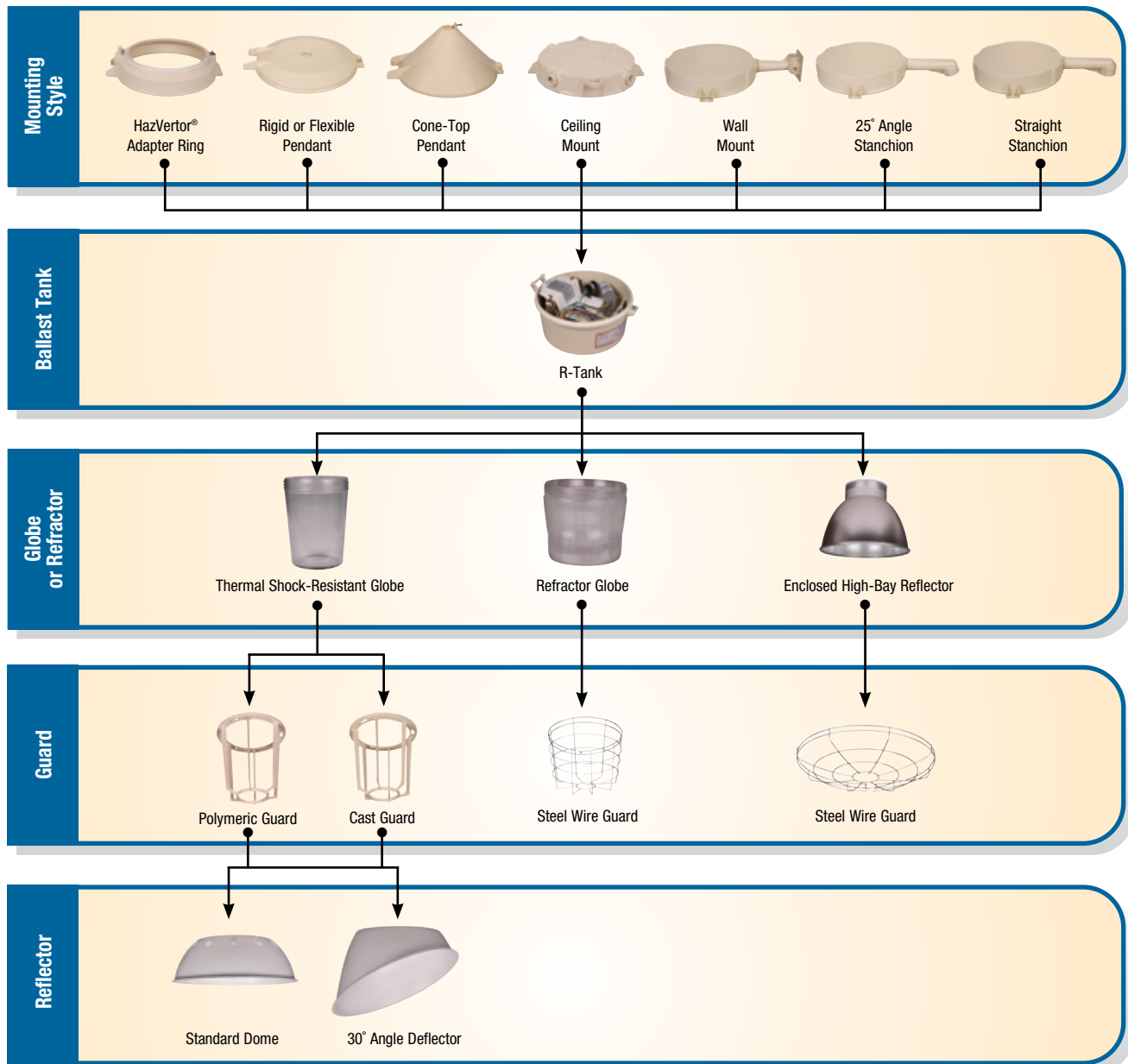
Contact your Thomas & Betts sales representative to verify classification.

Area Lighting — Hazlux® 3 Class I, Div 2

Hazlux® 3 Refractor Globe Housing Fixture Assembly Guide



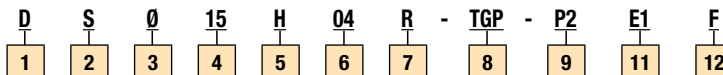
Lighting — Hazlux® Hazardous Location Lighting



Area Lighting — Hazlux 3® Class I, Div 2

Hazlux 3 Refractor Globe Housing Fixture Catalog Numbering System

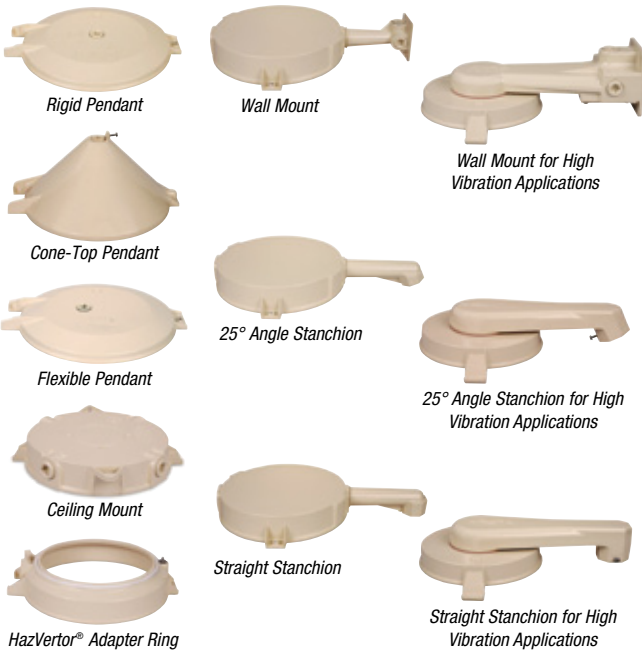
Class I	— Zone 2, Groups IIC, IIB, IIA	
	— Division 2, Groups A, B, C and D	
Class II	— Division 1 and 2, Groups E, F and G	
Class III		
	• UL® Listed (UL1598A) for Marine Locations	
	• UL844	
	• NEMA 4X, IP66	
Contact your Thomas & Betts sales representative to verify classification.		



- 1 Fixture Series**
D = Hazlux® 3 Fixture
- 2 Lamp Type**
S = High-Pressure Sodium
H = Metal Halide
C = 150-Watt HPS 100V Only
- 3 Starter Circuit/Quartz Options**
0 = Standard Fixture (Without Options)
P = Pulse Start (MH Only)
Q = Quartz Auxiliary Option (Not Hazardous Rated)
R = Instant Restart
J = Auto Shutoff Starter (HPS Only)
Y = Auto Shutoff Starter with Quartz Restrike (HPS only, non-UL)
- 4 Lamp Wattage**
05 = 50 Watts 15 = 150 Watts
07 = 70 Watts 17 = 175 Watts
10 = 100 Watts 25 = 250 Watts
- 5 Ballast Circuit**
H = High Reactance
C = Constant Wattage Autotransformer (CWA)
I = CWI
P = Reactor
(All ballasts high power factor)
- 6 Voltage/Frequency**
03 = 120/277V, 60 Hz
04 = 120/208/240/277V, 60 Hz
09 = 120/277/347V, 60 Hz (CSA)
12 = 120V, 60 Hz
24 = 240V, 60 Hz
27 = 277V, 60 Hz
28 = 208V, 60 Hz
34 = 347V, 60 Hz
48 = 480V, 60 Hz
225 = 220V, 50 Hz
245 = 240V, 50 Hz
- 7 Ballast Housing Style**
R = Refractor Globe Housing
I = Refractor Globe Housing with Stainless Steel Inserts
- 8 Optical Assembly Options**
R1 = 7/4" Refractor Globe, Type I
R3 = 7/4" Refractor Globe, Type III
R5 = 7/4" Refractor Globe, Type V
R1P = R1 with Polymeric Guard
R3P = R3 with Polymeric Guard
R5P = R5 with Polymeric Guard
R1G = R1 with Cast Guard
R3G = R3 with Cast Guard
R5G = R5 with Cast Guard
TG = 7/4" Thermal Shock-Resistant CBDL Globe
TGP = TG with Polymeric Guard
TGC = TG with Cast Guard
RCB = Enclosed High-Bay Reflector
RCG = RCB with Steel Wire Guard
- 9 Mounting Style**
A2 = 3/4" Cone-Top Pendant L4 = 1 1/4" Straight Stanchion
A3 = 1" Cone-Top Pendant L5 = 1 1/2" Straight Stanchion
B2 = 3/4" Wall Mount P2 = 3/4" Rigid Pendant
B3 = 1" Wall Mount P3 = 1" Rigid Pendant
C2 = 3/4" Ceiling Mount S4 = 1 1/4" 25° Angle Stanchion
C3 = 1" Ceiling Mount S5 = 1 1/2" 25° Angle Stanchion
F2 = 3/4" Flexible Pendant
F3 = 1" Flexible Pendant
HV1 = HazVercor® Ring — Class I, Div. 2, Zone 2
- 10 Special Options**
T = HazCote® Custom Corrosion Coating (Consult Factory)
G = Gray Color Option
- 11 UNIPAK® Options**
E = UNIPAK® with Clear Lamp
E1 = UNIPAK®, Clear Lamp, Dome Reflector
E2 = UNIPAK®, Clear Lamp, Angle Reflector
D = UNIPAK® with Dual Arc Lamp
D1 = UNIPAK®, Dual-Arc Lamp, Dome Reflector
D2 = UNIPAK®, Dual-Arc Lamp, Angle Reflector
U = UNIPAK®, No Lamp
- 12 Fusing Options**
F = Fuse Block(s) with Fuse(s)
- 13 CSA Certification**
C = CSA Nameplate

Area Lighting — Hazlux® 3 Class I, Div 2

Mounting Options



CAT. NO.	DESCRIPTION	CONDUIT HUB SIZE
VP2	Rigid Pendant	¾"
VP3		1"
VA2	Cone-Top Pendant	¾"
VA3		1"
VF2	Flexible Pendant	¾"
VF3		1"
VC2	Ceiling Mount	¾"
VC3		1"
VB2	Wall Mount	¾"
VB3		1"
VB2-VIB	Wall Mount for High Vibration Applications	¾"
VB3-VIB		1"
VS4	25° Angle Stanchion	1¼"
VS5		1½"
VS4-VIB	25° Angle Stanchion for High Vibration Applications	1¼"
VS5-VIB		1½"
VL4	Straight Stanchion	1¼"
VL5		1½"
VL4-VIB	Straight Stanchion for High Vibration Applications	1¼"
VL5-VIB		1½"
HV1	HazVertor® Adapter Ring	N/A

Globes or Refractors



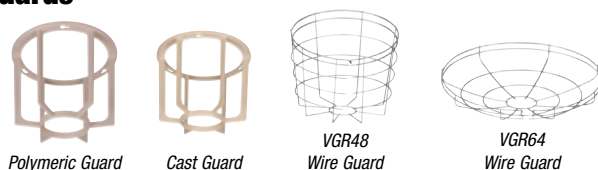
CAT. NO.	DESCRIPTION
VGT31S	7¾" dia. Heat-Resistant Globe (250W max.)
VGT31STS	7¾" dia. Heat-Resistant Globe (250W max.) coated with Tuff-Skin®
VGL31R1	7¾" dia. IES Type I Refractor Globe (250W max.)
VGL31R3	7¾" dia. IES Type III Refractor Globe (250W max.)
VGL31R5	7¾" dia. IES Type V Refractor Globe (250W max.)
VRF31C5	12" dia. IES Type V Refractor, 7¾" thread

Reflectors



CAT. NO.	DESCRIPTION
VR31P	Standard Dome, Fiberglass-Reinforced Polyester
VRD31	Deep Dome, Anodized Aluminum
VR31CB	Enclosed High-Bay, Anodized Aluminum with Lens
VRA31P	30° Angle Reflector, Fiberglass-Reinforced Polyester

Guards

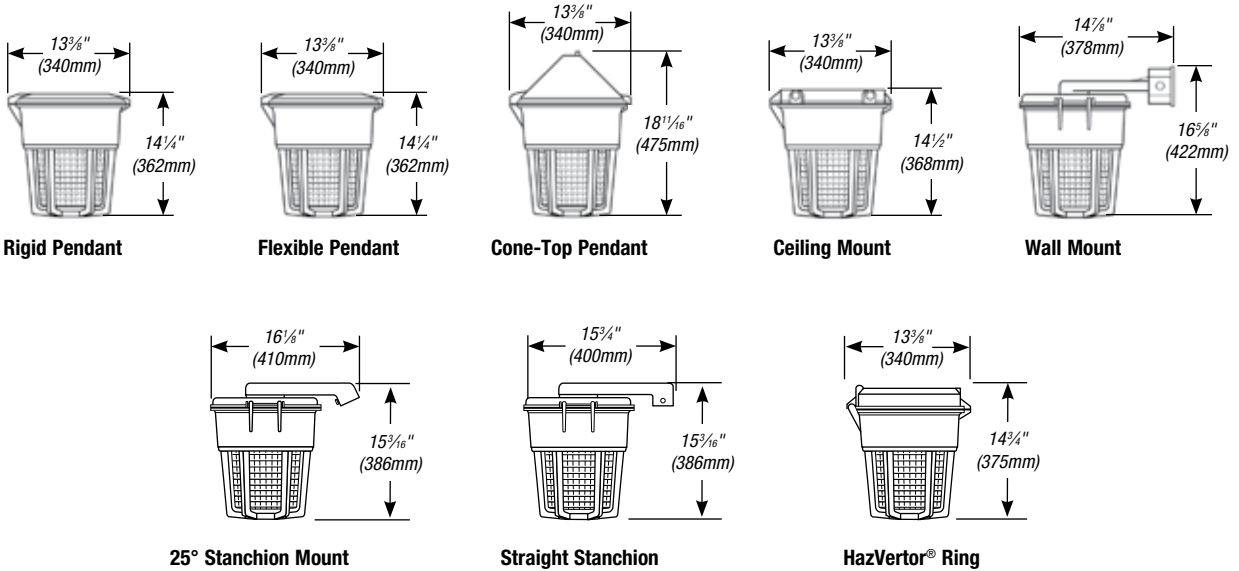


CAT. NO.	DESCRIPTION
VGU31RP	Polymeric Guard for VGT31S Globe and VGL31R Series Refractor Globes
VGU31R	Cast Aluminum Guard for VGT31S Globe and VGL31R Series Refractor Globes
VGR48	Steel Wire Guard for All VRF Series 12" Refractors
VGR64	Steel Wire Guard for VR31CB Enclosed High Bay Reflector

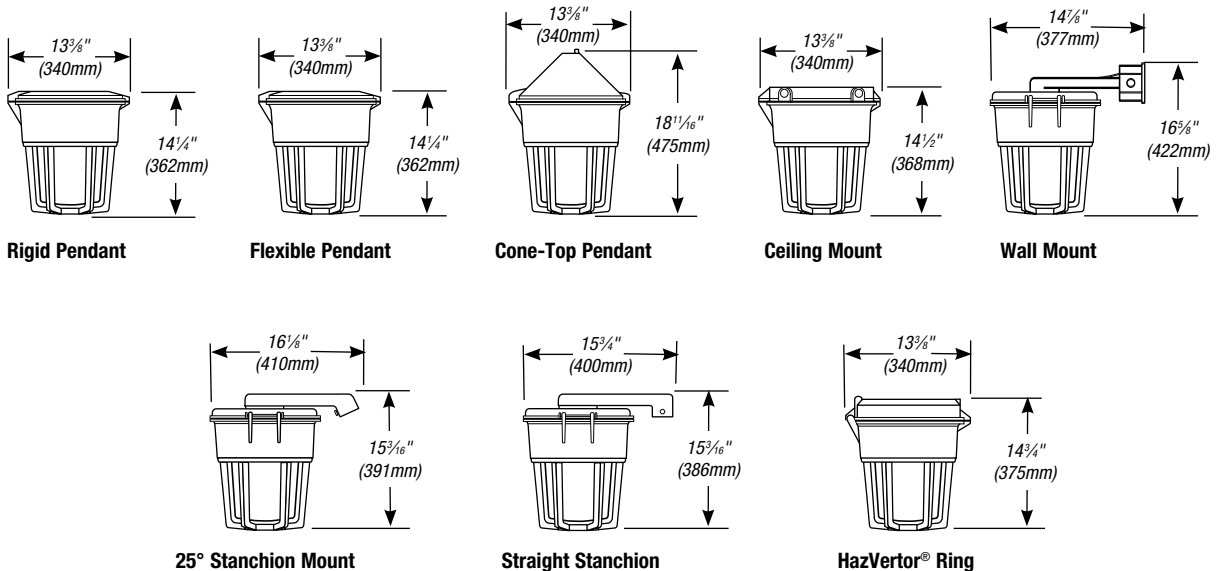
Tuff-Skin is a registered trademark of Thomas Manufacturing Corp.

Area Lighting — Hazlux® 3 Class I, Div 2

Dimensions — R-Tank Housing with 7³/₄" Refractor and Guard



Dimensions — R-Tank Housing with 7³/₄" Globe and Guard



- Class I — Zone 2, Groups IIC, IIB, IIA
- Division 2, Groups A, B, C and D
- Class II — Division 1 and 2, Groups E, F and G
- Class III
- UL® Listed (UL1598A) for Marine Locations
- UL844
- NEMA 4X, IP66

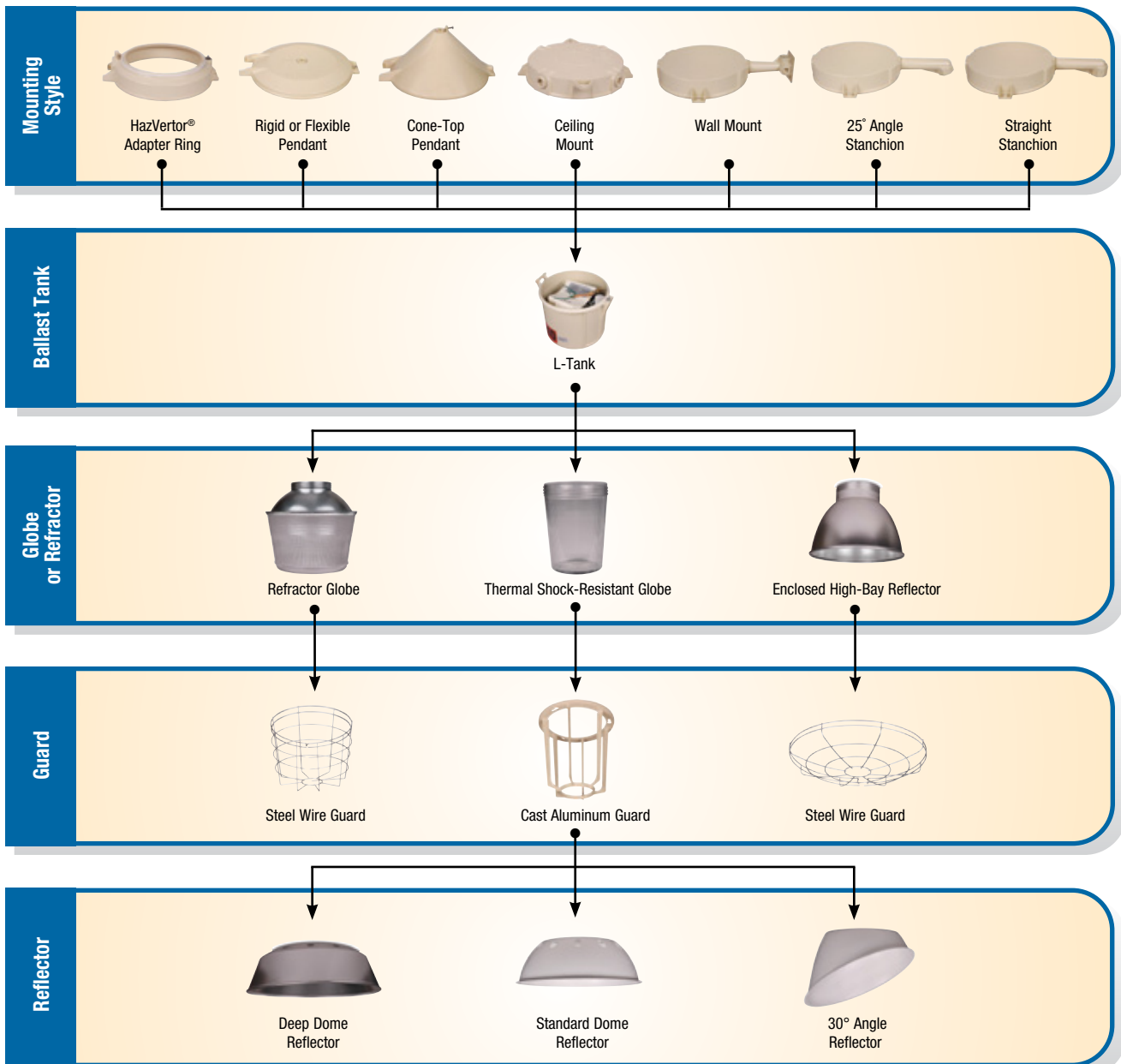


Contact your Thomas & Betts sales representative to verify classification.

Area Lighting — Hazlux® 3 Class I, Div 2

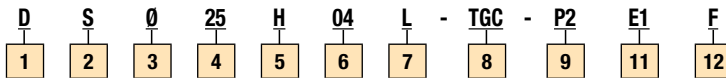
Hazlux® 3 Large Housing Fixture Assembly Guide

Lighting — Hazlux® Hazardous Location Lighting



Area Lighting — Hazlux® 3 Class I, Div 2

Hazlux® 3 Large Housing Fixture Catalog Numbering System



1 Fixture Series

D = Hazlux® 3 Fixture

2 Lamp Type

S = High-Pressure Sodium

H = Metal Halide

3 Starter Circuit/Quartz Options

Ø = Standard Fixture (Without Options)

P = Pulse Start (MH Only)

Q = Quartz Auxiliary Option (Not Hazardous Rated)

J = Auto Shutoff Starter (HPS only)

Y = Auto Shutoff Starter with Quartz Restrike (HPS only, non-UL)

4 Lamp Wattage

20 = 200 Watts

25 = 250 Watts (HPS only)

32 = 320 Watts (Metal Halide only)

35 = 350 Watts (Metal Halide only)

40 = 400 Watts

5 Ballast Circuit

H = High Reactance

C = Constant Wattage Autotransformer

I = CWI

P = Reactor
(All ballast high power factor)

6 Voltage/Frequency

03 = 120/277V, 60 Hz

04 = 120/208/240/277V, 60 Hz

09 = 120/277/347V, 60 Hz (CSA)

12 = 120V, 60 Hz

27 = 277V, 60 Hz

28 = 208V, 60 Hz

34 = 347V, 60 Hz

48 = 480V, 60 Hz

225 = 220V, 50 Hz

245 = 240V, 50 Hz

7 Ballast Housing Style

L = Large Housing

M = Large Housing with Stainless Steel Inserts

8 Optics and Guards

R5 = 7¾" Refractor Globe, Type V

R5G = R5 with Steel Wire Guard

8 Optics and Guards (continued)

RCB = Enclosed High-Bay Reflector

RCG = RCB with Steel Wire Guard

TG = 7¾" Thermal Shock-Resistant CBDL Globe

TGC = TG with Cast Aluminum Guard

SG = Tuff-Skin® Coated Globe

SGC = SG with Cast Aluminum Guard

9 Mounting Style

A2 = ¾" Cone-Top Pendant

A3 = 1" Cone-Top Pendant

B2 = ¾" Wall Mount

B3 = 1" Wall Mount

C2 = ¾" Ceiling Mount

C3 = 1" Ceiling Mount

F2 = ¾" Flexible Pendant

F3 = 1" Flexible Pendant

HV1 = HazVerter® Ring — Class I, Div. 2, Zone 2

10 Special Options

T = HazCote® Custom Corrosion Coating (Consult Factory)

G = Gray Color Option

11 UNIPAK® Options

E = UNIPAK® with Clear Lamp

E1 = UNIPAK®, Clear Lamp, Dome Reflector

E2 = UNIPAK®, Clear Lamp, Angle Reflector

D = UNIPAK® with Dual Arc Lamp

D1 = UNIPAK®, Dual-Arc Lamp, Dome Reflector

D2 = UNIPAK®, Dual-Arc Lamp, Angle Reflector

U = UNIPAK®, No Lamp

12 Fusing Options

F = Fuse Blocks with Fuses

13 CSA Certification

C = CSA Nameplate

Tuff-Skin® is a trademark of Thomas Manufacturing Corp.

Class I — Zone 2, Groups IIC, IIB, IIA
— Division 2, Groups A, B, C and D
Class II — Division 1 and 2, Groups E, F and G
Class III

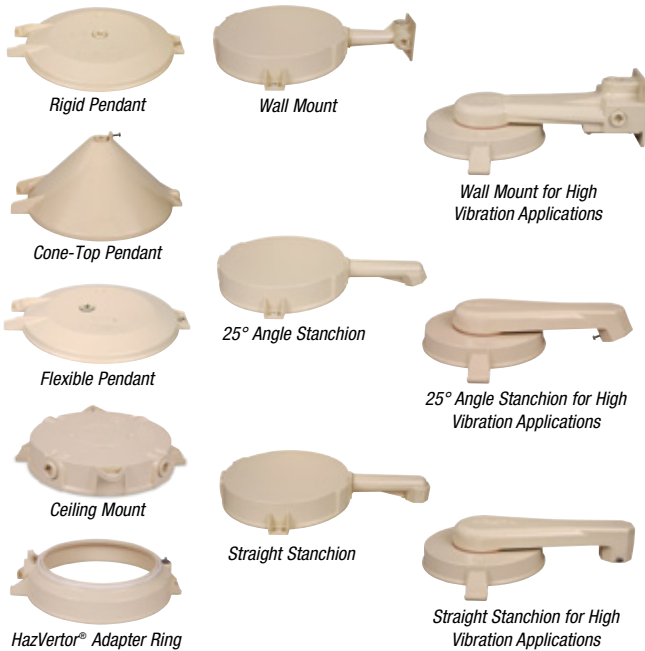
- UL® Listed (UL1598A) for Marine Locations
- UL844
- NEMA 4X, IP66

Contact your Thomas & Betts sales representative to verify classification.



Area Lighting — Hazlux® 3 Class I, Div 2

Mounting Options



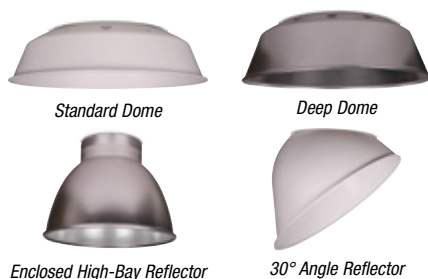
CAT. NO.	DESCRIPTION	CONDUIT HUB SIZE
VP2	Rigid Pendant	¾"
VP3		1"
VA2	Cone-Top Pendant	¾"
VA3		1"
VF2	Flexible Pendant	¾"
VF3		1"
VC2	Ceiling Mount	¾"
VC3		1"
VB2	Wall Mount	¾"
VB3		1"
VB2-VIB	Wall Mount for High Vibration Applications	¾"
VB3-VIB		1"
VS4	25° Angle Stanchion	1¼"
VS5		1½"
VS4-VIB	25° Angle Stanchion for High Vibration Applications	1¼"
VS5-VIB		1½"
VL4	Straight Stanchion	1¼"
VL5		1½"
VL4-VIB	Straight Stanchion for High Vibration Applications	1¼"
VL5-VIB		1½"
HV1	HazVektor® Adapter Ring	N/A

Globes or Refractors



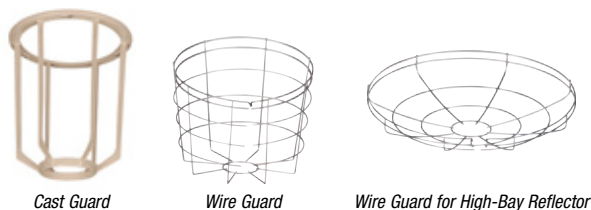
CAT. NO.	DESCRIPTION
VGT31	7¾" dia. Heat-Resistant Globe (400W max.)
VGT31TS	7¾" dia. Heat-Resistant Globe (400W max.) coated with Tuff-Skin®
VRF31C5	12" dia. IES Type V Refractor, 7¾" Thread

Reflectors



CAT. NO.	DESCRIPTION
VR31P	Standard Dome, Fiberglass-Reinforced Polyester
VRD31	Deep Dome, Anodized Aluminum
VR31CB	Enclosed High-Bay, Anodized Aluminum with Lens
VRA31P	30° Angle Reflector, Fiberglass-Reinforced Polyester

Guards



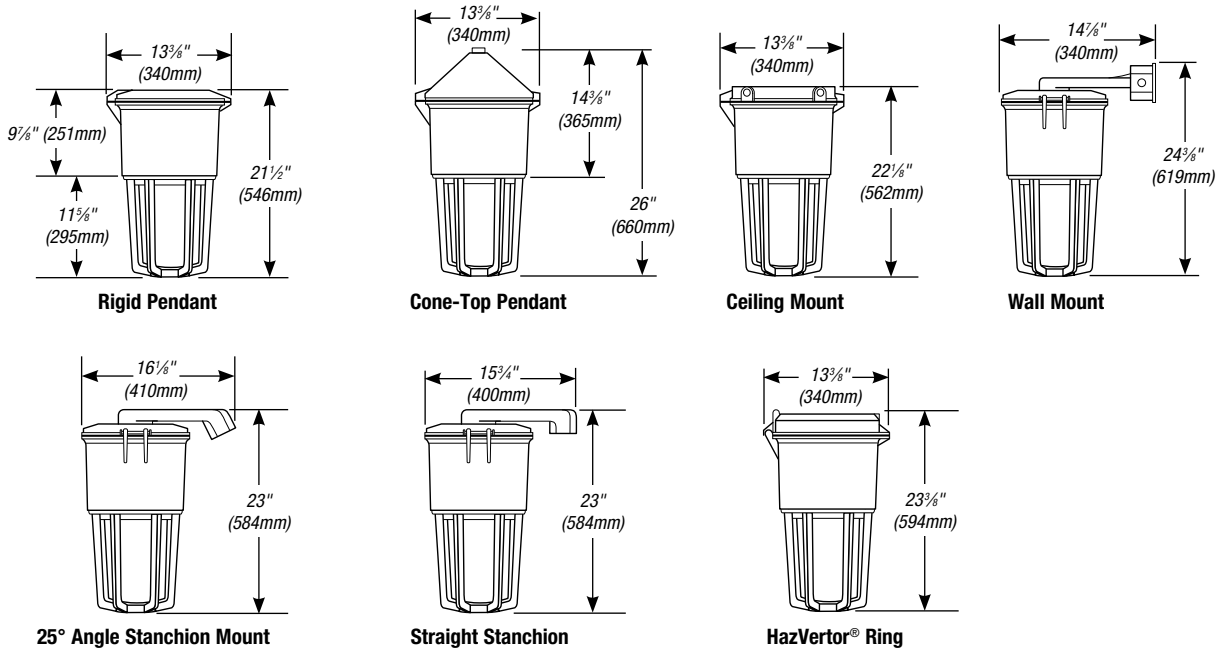
CAT. NO.	DESCRIPTION
VGU31	Cast Aluminum Guard for VGT31 Globe
VGR48	Steel Wire Guard for All VRF Series 12" Refractors
VGR64	Steel Wire Guard for VR31CB Enclosed High Bay Reflector

Tuff-Skin is a registered trademark of Thomas Manufacturing Corp.

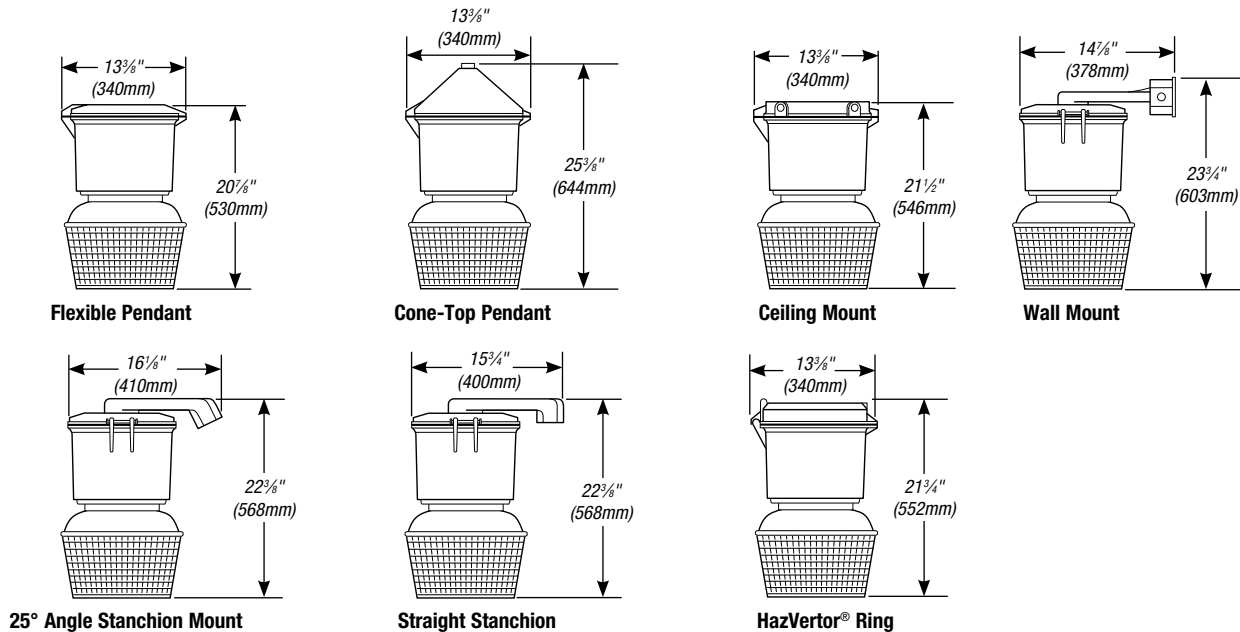
Area Lighting — Hazlux® 3 Class I, Div 2

Lighting — Hazlux® Hazardous Location Lighting

Dimensions — Large Ballast Housing with Globe and Guard



Dimensions — Large Ballast Housing with 12" Refractor and Guard



Class I — Zone 2, Groups IIC, IIB, IIA
 — Division 2, Groups A, B, C and D
 Class II — Division 1 and 2, Groups E, F and G
 Class III

- UL® Listed (UL1598A) for Marine Locations
- UL844
- NEMA 4X, IP66



Contact your Thomas & Betts sales representative to verify classification.

Area Lighting — Hazlux® 3 Class I, Div 2

Now You Can Use the Longest-Life Lamp Available on the Market.

In the typical process industry plant, reliable lighting is often required in hazardous, hard-to-reach places. Lamp replacement not only places employees at risk, but often requires the rental of expensive equipment such as scissor lifts.

With the introduction of Hazlux Induction Lighting Fixtures for hazardous areas (Class 1, Div. 2 Groups A, B, C, D) and non-hazardous areas, you can benefit from the longest lamp life available on the market. Hazlux® 3 HID lights are equipped with Philips® QL Induction lamps for the longest lamp life ever.

Features include:

- 100,000+ hour lamp life
- Reduced maintenance/re-lamp operations
- Instant On/Instant Restrike
- Automatic switch-off in case of failure
- Warm white light
- Exceptional energy efficiency
- -40° C to 40° C ambient operating range
- Retrofits into existing Hazlux® 3 applications
- Acceptable for use with infrared remote control equipment operating at 36 kHz
- RFI-approved for environments up to 1,000 MHz (FCC part 18 reference luminaire)

Here's how you save maintenance costs with Hazlux® Induction Lighting:

- Eliminates the need for expensive HID options such as Quartz Auxiliary Lamps or Instant Restrike
- Reduces risks to installers performing maintenance in hard-to-reach places
- Increases efficiency by decreasing machine shutdown time
- Reduces number of times necessary to de-energize entire circuit of lights for maintenance in hazardous locations
- Lowers cost of expensive rental of scissor lifts or bucket trucks



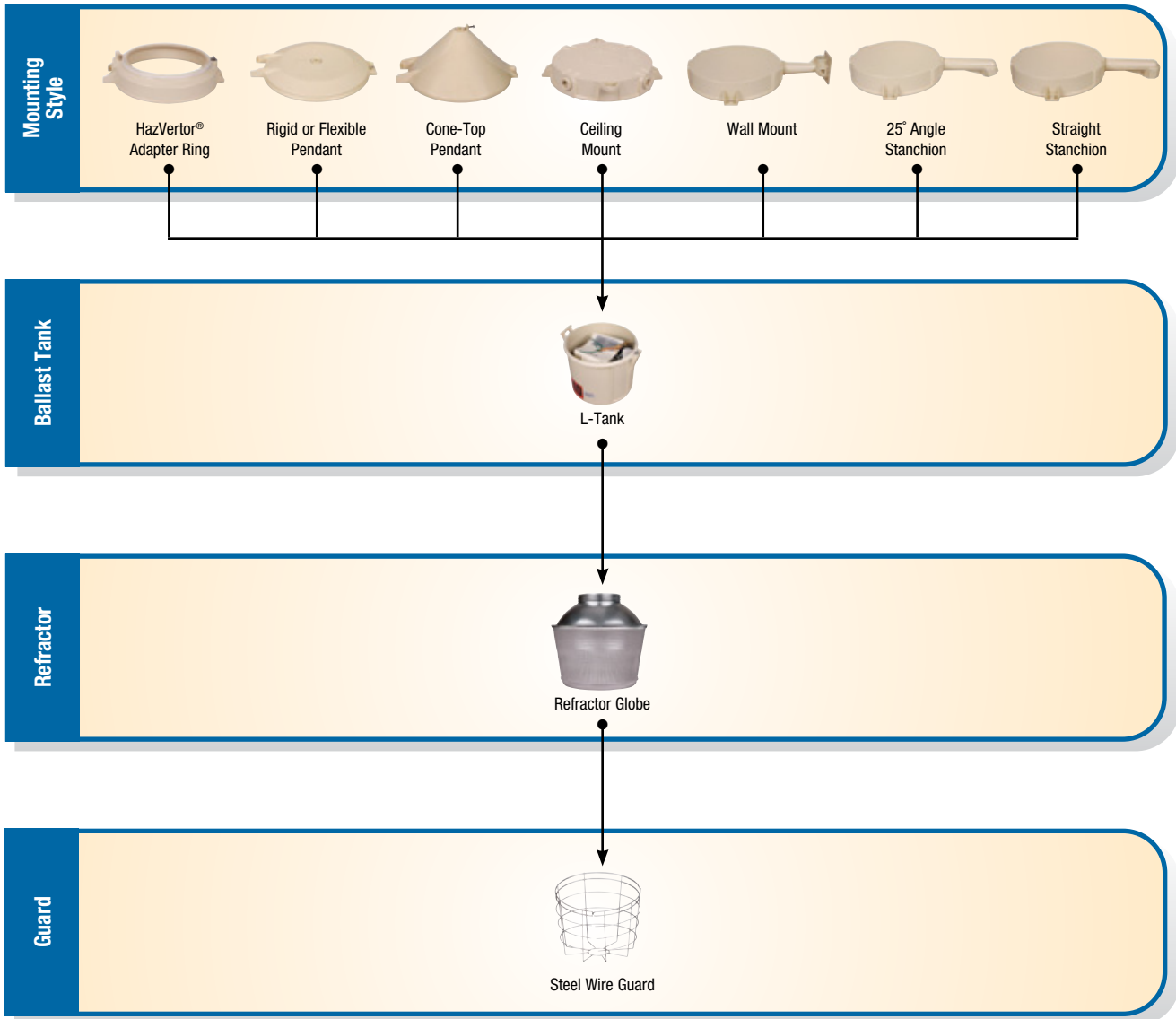
Hazlux® Induction Lighting reduces the cost of expensive maintenance of industrial lighting in hazardous locations.

Area Lighting — Hazlux® 3 Class I, Div 2

Hazlux® 3 Induction Lighting Fixture Assembly Guide

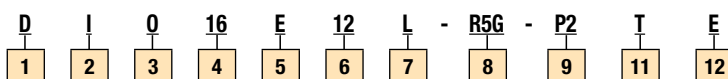


Lighting — Hazlux® Hazardous Location Lighting



Area Lighting — Hazlux® 3 Class I, Div 2

Hazlux® 3 Induction Lighting Fixtures Catalog Numbering System



1 Hazlux 3 HID Fixture

- D = Class I, Div. 2, Groups A, B, C and D
- D = Class I, Zone 2, Groups IIA, IIB, IIC
- D = Class II, Div. 1 & 2, Groups E, F and G
- D = Class III
 - UL 595 Marine Locations, Wet Locations, NEMA 4X

2 Lamp Type

- I = Induction Lighting

3 Starter Circuit/Quartz Options

- 0 = Standard Fixture

4 Lamp Wattage

- 16 = 165 Watt Induction System

5 Ballast Circuit

- E = Electronic Ballast (Induction Fixture)

6 Voltage

- 12 = 120V, 60 Hz
- 06 = 208/240/277V 50 or 60 Hz
- 34 = 347V 60 Hz (CSA)

7 Tank

- L = Large Tank
- M = Large Tank with Stainless Steel Inserts

8 Refractor

- R5G = Type V Refractor with Wire Guard
- R5 = Type V Refractor

9 Mounting Style

- A2 = ¾" Cone-Top Pendant
- A3 = 1" Cone-Top Pendant Mount
- B2 = ¾" Wall Mount
- B3 = 1" Wall Mount
- C2 = ¾" Ceiling Mount
- C3 = 1" Ceiling Mount
- F2 = ¾" Flexible Pendant
- F3 = 1" Flexible Pendant
- HV1 = HazVerter® Ring — Class I, Division 2
- HV2 = HazVerter® Ring — Class II, Division 1
- L4 = 1¼" Straight Stanchion
- L5 = 1½" Straight Stanchion
- P2 = ¾" Rigid Pendant
- P3 = 1" Rigid Pendant
- S4 = 1¼" 25° Angle Stanchion
- S5 = 1½" 25° Angle Stanchion

10 Coating

- T = HazCote® Custom Corrosion Coating
- G = Gray Color Option

11 UNIPAK® Options

- E = UNIPAK® with Induction Lamp

12 Fusing Options

- F = Fuse Block(s) with Fuse(s)

13 CSA Certification

- C = CSA Nameplate

- Class I — Zone 2, Groups IIC, IIB, IIA
- Division 2, Groups A, B, C and D
- Class II — Division 1 and 2, Groups E, F and G
- Class III
 - UL® Listed (UL1598A) for Marine Locations
 - UL844
 - NEMA 4X, IP66

Contact your Thomas & Betts sales representative to verify classification.

