

Hazlux® 3 Large Housing

Assembly Guide

Complete luminaire consists of :

A MOUNTING STYLE

+ BALLAST TANK

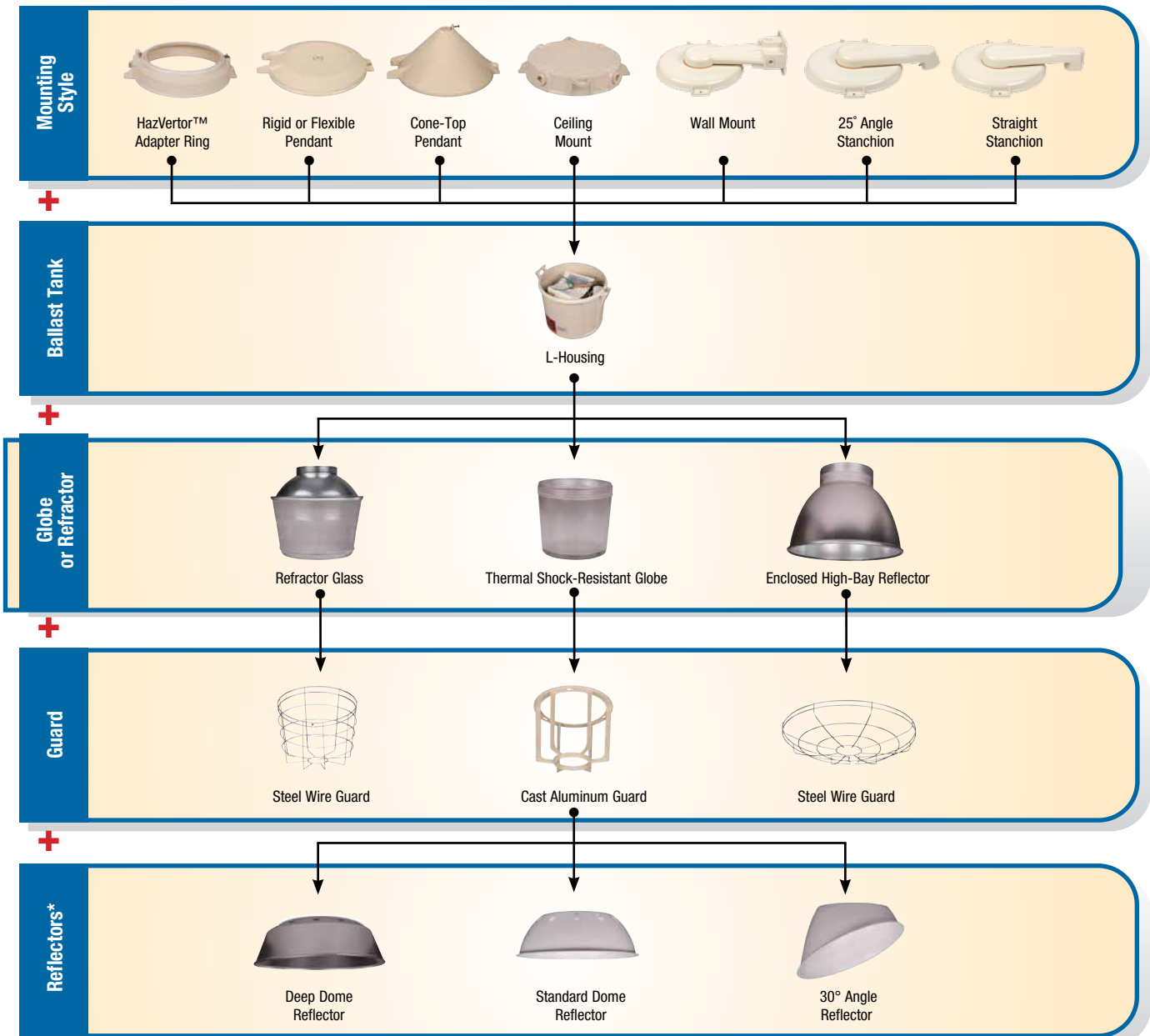
+ GLOBE OR REFRACTOR

+ OPTIONAL GUARD AND/OR REFRACTOR



To order a **UNIPAK™** fixture, see [page 29](#).

To order **separate components**, order **BALLAST TANK** on [page 29](#) and **INDIVIDUAL COMPONENTS** on [page 30](#).



* Reflectors are sold separately. See page 30 for ordering number.

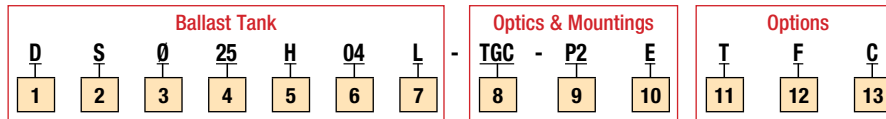
Hazlux® 3 Large Housing

Catalog Numbering System



UNIPAK™ =

Ballast Tank +
Optics & Mountings +
Options (if necessary)



BALLAST TANK

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)

4 Lamp Wattage

Metal Halide Lamps

20 = 200W ED28PS

25 = 250W ED28

32 = 320W ED28PS

35 = 350W ED37PS

40 = 400W ED37

High Pressure Sodium

20 = 200W ED18

25 = 250W ED18

40 = 400W ED18

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

OPTICS & MOUNTINGS

8 Optics and Guards

R2 = 12" Refractor Glass, Type II

R5 = 12" Refractor Glass, Type V

R2G = R2 with Steel Wire Guard

R5G = R5 with Steel Wire Guard

RCB = Enclosed High-Bay Reflector

RCG = RCB with Steel Wire Guard

TG = 7/8" 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 = 3/4" Cone-Top Pendant

A3 = 1" Cone-Top Pendant

B2 = 3/4" Wall Mount

B3 = 1" Wall Mount

C2 = 3/4" Ceiling Mount

C3 = 1" Ceiling Mount

F2 = 3/4" Flexible Pendant

F3 = 1" Flexible Pendant

HV1 = HazVertor™ Ring — Class I, Div. 2, Zone 2

HV2 = HazVertor™ Ring — Class II, Div. 1, Zone 2

L4 = 1/4" Straight Stanchion

L5 = 1/2" Straight Stanchion

P2 = 3/4" Rigid Pendant

P3 = 1" Rigid Pendant

S4 = 1/4" 25° Angle Stanchion

S5 = 1/2" 25° Angle Stanchion

10 UNIPAK™ Options

E = UNIPAK™ with Clear Lamp

D = UNIPAK™ with Dual Arc Lamp

U = UNIPAK™, No Lamp

OPTIONS

11 Special Options

T = HazCote® Custom Corrosion Coating (Consult Factory)

12 Fusing Options

F = Fuse Blocks with Fuses

13 Certification

C = Canadian Market

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
- CSA C22.2 No. 137



Contact your Thomas & Betts sales representative to verify classification.

* For more information on lamp selection, see p.99

Hazlux® 3 Large Housing

INDIVIDUAL COMPONENTS (to be used with ballast tank, see page 29)

Mounting Options



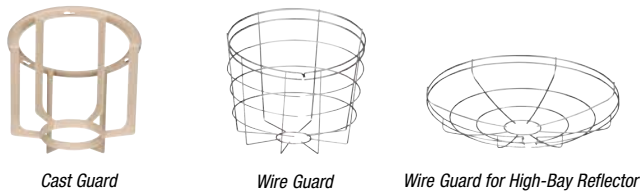
CAT. NO.	DESCRIPTION	CONDUIT HUB SIZE
VP2	Rigid Pendant	¾"
VP3	Rigid Pendant	1"
VA2	Cone-Top Pendant	¾"
VA3	Cone-Top Pendant	1"
VF2	Flexible Pendant	¾"
VF3	Flexible Pendant	1"
VC2	Ceiling Mount	¾"
VC3	Ceiling Mount	1"
VB2-VIB	Wall Mount	¾"
VB3-VIB	Wall Mount	1"
VS4-VIB	25° Angle Stanchion	1¼"
VS5-VIB	25° Angle Stanchion	1½"
VL4-VIB	Straight Stanchion	1¼"
VL5-VIB	Straight Stanchion	1½"
HV1	HazVerter™ Adapter Ring	N/A
HV2	HazVerter™ 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®
VRF31C2	12" dia. IES Type II Refractor, 7¾" Thread
VRF31C5	12" dia. IES Type V Refractor, 7¾" Thread
VR31CB	Enclosed High-Bay, Anodized Aluminum with Lens

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

Optional Components

Reflectors



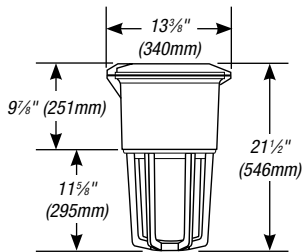
CAT. NO.	DESCRIPTION
VR31P	Standard Dome, Fiberglass-Reinforced Polyester
VRD31	Deep Dome, Anodized Aluminum
VRA31P	30° Angle Reflector, Fiberglass-Reinforced Polyester

Note: Reflectors are shipped bulk unless specified

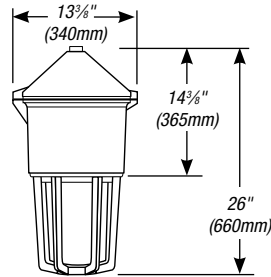
Tuff-Skin is a registered trademark of Thomas Manufacturing Corp.

Hazlux® 3 Large Housing

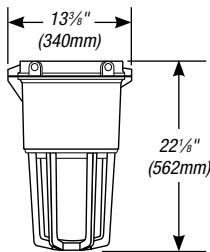
Dimensions — Large Housing with Globe and Guard



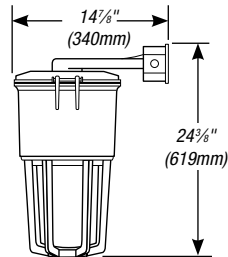
Rigid Pendant



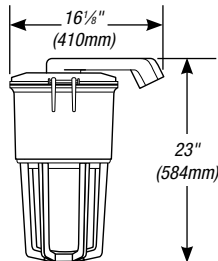
Cone-Top Pendant



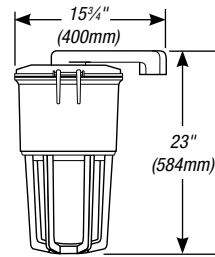
Ceiling Mount



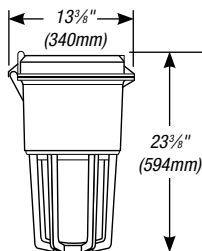
Wall Mount



25° Angle Stanchion Mount



Straight Stanchion



HazVector™ Ring

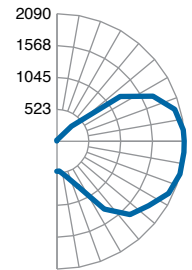
Photometry — Large Housing with Globe and Guard

Ceiling Mount

Reference Data

Catalogue No.	DS020C09L-TGCA3E
Lamp	200W HPS ED18
Lamp Lumens	22000
Input Watt	255
Luminaire Lumens	18415
Efficiency	84%
Efficacy Rating (LER)	72.2
Spacing Criterion (0-180)	NA
Spacing Criterion (90-270)	NA
Spacing Criterion (diagonal)	NA

Candlepower Curve

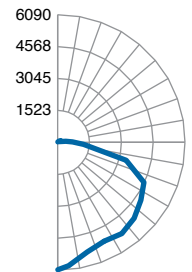


Ceiling Mount

Reference Data

Catalogue No.	DH035C09L-TGCA3E
Lamp	350W MH ED37PS
Lamp Lumens	34000
Input Watt	400
Luminaire Lumens	26392
Efficiency	78%
Efficacy Rating (LER)	66.0
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.36
Spacing Criterion (diagonal)	1.58

Candlepower Curve

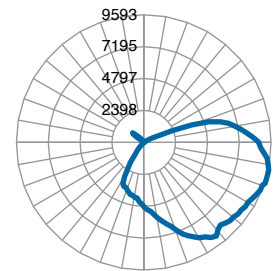


Ceiling Mount

Reference Data

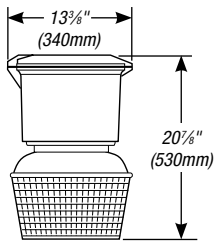
Catalogue No.	DHP40C04L-TG-P2V & VRA31P
Lamp	400W MH ED37PS
Lamp Lumens	44000
Input Watt	400
Luminaire Lumens	30407
Efficiency	69%
Efficacy Rating (LER)	76
Spacing Criterion (0-180)	2.32
Spacing Criterion (90-270)	1.72
Spacing Criterion (diagonal)	1.58

Candlepower Curve

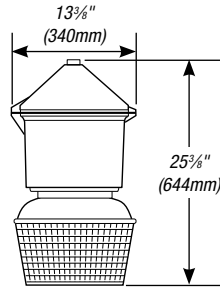


Hazlux® 3 Large Housing

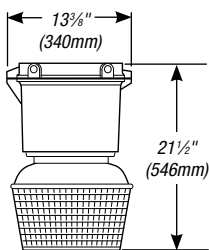
Dimensions — Large Housing with 12" Refractor



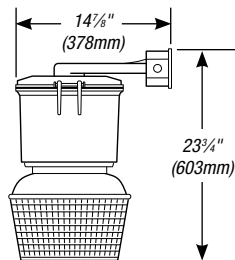
Flexible Pendant



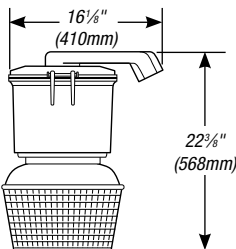
Cone-Top Pendant



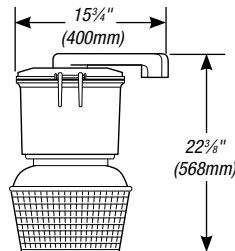
Ceiling Mount



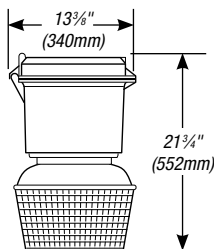
Wall Mount



25° Angle Stanchion Mount



Straight Stanchion



HazVector™ Ring

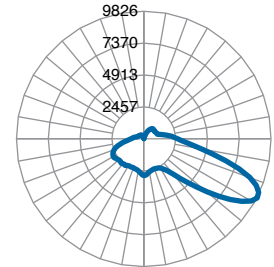
Photometry — Large Housing with 12" Refractor

Ceiling Mount

Reference Data

Catalogue No.	DHP32C04L-R2-P2E
Lamp	320W MH ED28PS
Lamp Lumens	30000
Input Watt	352
Luminaire Lumens	21773
Efficiency	73%
Efficacy Rating (LER)	62
Spacing Criterion (0-180)	1.56
Spacing Criterion (90-270)	1.50
Spacing Criterion (diagonal)	1.90

Candlepower Curve

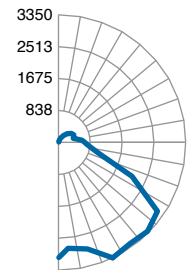


Ceiling Mount

Reference Data

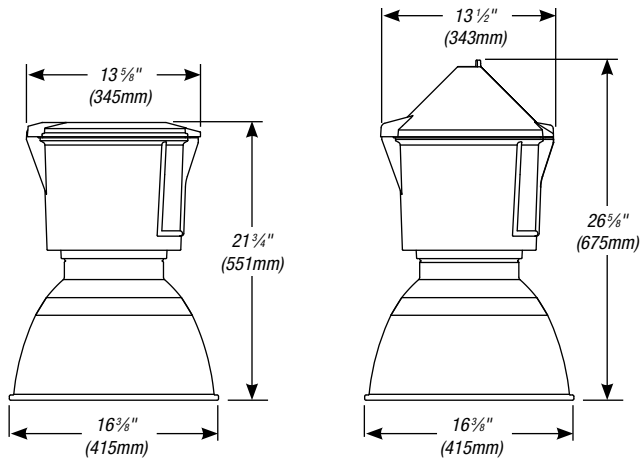
Catalogue No.	DS020C04L-R5-P2E
Lamp	200W HPS ED18
Lamp Lumens	22000
Input Watt	240
Luminaire Lumens	16414
Efficiency	75%
Efficacy Rating (LER)	68
Spacing Criterion (0-180)	1.66
Spacing Criterion (90-270)	1.66
Spacing Criterion (diagonal)	1.80

Candlepower Curve

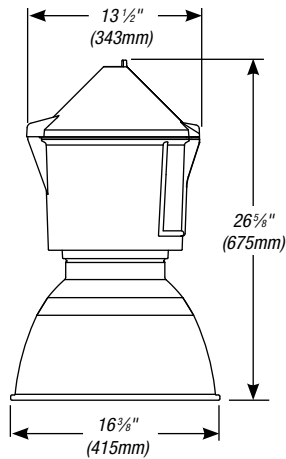


Hazlux® 3 Large Housing

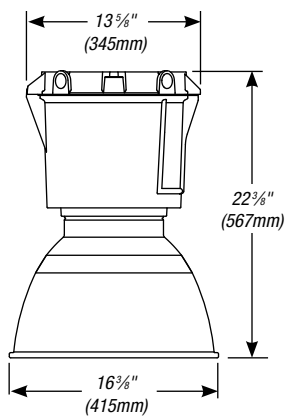
Dimensions — Large Housing with High Bay Reflector



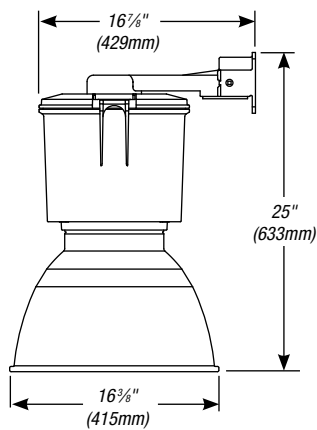
Rigid & Flexible Pendant



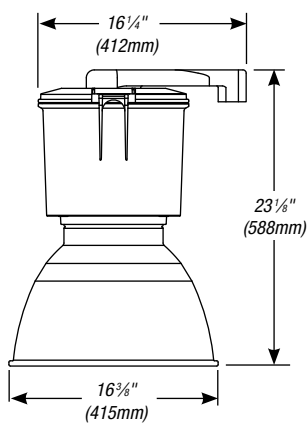
Cone-Top Pendant



Ceiling Mount



Wall Mount



Straight Stanchion

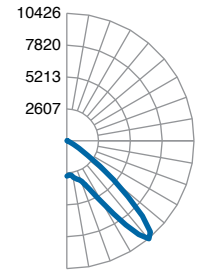
Photometry — Large Housing with High Bay Reflector

Ceiling Mount

Reference Data

Catalogue No.	DHP25C04-RCB-A3E
Lamp	250W MH ED28PS
Lamp Lumens	25000
Input Watt	250
Luminaire Lumens	17383
Efficiency	70%
Efficacy Rating (LER)	70
Spacing Criterion (0-180)	2.36
Spacing Criterion (90-270)	2.36
Spacing Criterion (diagonal)	1.86

Candlepower Curve



Ceiling Mount

Reference Data

Catalogue No.	DS020C04L-RCB-A3E
Lamp	200W HPS ED18
Lamp Lumens	22000
Input Watt	240
Luminaire Lumens	12810
Efficiency	58%
Efficacy Rating (LER)	53
Spacing Criterion (0-180)	1.70
Spacing Criterion (90-270)	1.70
Spacing Criterion (diagonal)	1.38

Candlepower Curve

