

## Area Lighting

### Hazlux® 3 Series

Designed, tested and certified for use in hazardous locations and adverse environments. New labor-saving features for Hazlux® 3 fixtures.

#### Hazlux® UNIPAK™ Packaging

- UNIPAK™ is the Hazlux customized packaging system that is designed to save money for all concerned
- UNIPAK™ fixtures are normally assembled and can include globes, guards, reflectors, lamps, fuses and other options
- Outlet boxes are normally shipped separately; consult factory regarding outlet boxes to be assembled to UNIPAK™ fixtures
- Assembled UNIPAK™ fixtures are shipped in one carton with the fixture foam packed in place

*Refer to the "Catalog Numbering System" for each individual Hazlux® fixture series for ordering information*

#### UNIPAK™ saves six ways:

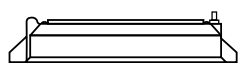
1. Fewer cartons to receive, count, move, open and dispose fewer storage problems
2. Reduces inventory expense
3. Eliminates lost or back-ordered parts
4. Eliminates mismatched fixtures or lamps
5. Significantly reduces labor costs
6. Reduces total installed cost per fixture

#### HazVertor™ Adapter Ring

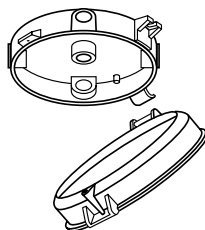
#### Replace other brand fixtures without removing the top hat

The HazVertor™ adapter ring gives you the freedom to replace Crouse-Hinds Champ® series lighting fixtures (VMV, DMV or LMV types) with Hazlux® 3 lighting fixtures without removing the Crouse-Hinds top hat from the conduit system, eliminating the need to replace conduit and wiring.

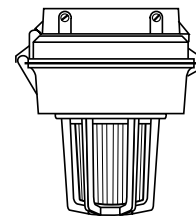
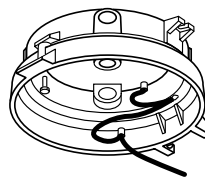
Save time and increase efficiency. The HazVertor™ can be ordered as a separate item or as part of a Hazlux® 3 fixture assembly. Look for the HV1 or HV2 mounting style options and switch to increased efficiency, wider suitability for hazardous locations, improved light distribution and improved T-numbers.



**Competitive  
Top Hat**



**Hazverter**



## Area Lighting

Hazlux® 3 Series

Fixtures for Class I, Division 2; Class II; wet and marine locations.



### Applications

- Chemical Plants
- Oil Refineries
- Paint, Rubber Manufacturing
- Offshore Platforms
- Oil Drilling Rigs
- Oil, Gas Transmission
- Waste Treatment Facilities
- Airplane, Aerospace Facilities
- Electronics Manufacturing
- Pharmaceutical Plants
- Aircraft Manufacturing
- Vehicle Maintenance Facilities
- Grain Handling, Food Processing
- Coal Handling and Processing
- Flour, Sugar, Starch Processing
- Ammunition Manufacturing
- Coal, Gold and Copper Mining
- Pulp and Paper Manufacturing
- Copper, Aluminum Smelting
- Breweries, Malt Plants
- Shipyards, Shipbuilding Facilities
- Automobile Manufacturing
- Marine and Coastal Facilities
- Utility Power Plants
- Steel Mills, Foundries
- General Manufacturing Plants

## Fixtures for Class I, Division 2; Class II; wet and marine locations.

### Features

- Modular fixture components enable hundreds of easy-to-assemble combinations
- Cast copper-free aluminum housings and mounting covers are lightweight and resist corrosion
- Electrostatically applied powder-coat finish for added corrosion resistance
- Thermal shock-resistant glass globes and refractors protect lamps in wet, marine and outdoor applications
- All glass globes and refractors are fully threaded and provide a dust-tight, watertight seal with silicone rubber gaskets
- Standard globe guards are made from rugged polycarbonate plastic or cast aluminum with keyhole slots for ease of installation and do not interfere with globe threads
- All exposed hardware is stainless steel for corrosion resistance and screws are slotted, hex head style to further ease installation
- Comprehensive UL Listings for Class I, Division 2; Class I, Zone 2; and Class II
- Available for use with high-pressure sodium and metal halide lamps up to 400 watts
- Eight different mounting styles – rigid pendant, flexible pendant, cone pendant, ceiling, wall, 25° angle stanchion, straight stanchion and HazVertor™ Adapter Ring
- Three ballast housing choices - standard housing, R-housing and large housing
- Heat sinks in ballast housings enable ballasts to operate cooler, provide longer life and improve temperature performance
- Bright white FRP (fiberglass-reinforced polyester) angle or dome reflectors resist corrosion while maximizing lighting effectiveness
- Many optical choices - standard globes, threaded refractor globes, 7-3/4" globes, 12" refractors, enclosed high-bay reflectors and more
- All mounting covers provided with dual-lead ground wire for connection to field and fixture grounds
- Optional HazCote® coating for extremely corrosive applications
- Optional stainless steel inserts for guard screws and ballast tank closure screw for enhanced corrosion resistance
- Optional silicone coating on glass optics contains fragments if glass is broken (for food processing)
- Optional instant restrike starter for HPS lamps up to 150 watts restarts hot HPS lamp after momentary power failure

### Materials and Finishes

- Ballast Housings - Copper-free aluminum, powder finish
- Mounting Covers - Copper-free aluminum, powder finish
- Guards - Polycarbonate, copper-free aluminum or steel
- Globes - Tempered glass or borosilicate glass
- Refractor Globes - Borosilicate glass
- Refractors (12") - Borosilicate glass
- Hardware - Stainless steel
- Reflectors - Fiberglass-reinforced polyester (standard dome, angle); anodized aluminum (deep dome, high bay enclosed)
- Gaskets - High-temperature silicone rubber



#### Certifications/Compliances\*

- UL® Listed (UL844) and CSA certified (CSA C22.2 no. 137) for:
  - Class I, Division 2, Groups A, B, C, D
  - Class I, Zone 2, Groups IIA, IIB, IIC
  - Class II, Divisions 1 & 2, Groups E, F, G
  - Class III
  - Wet locations

UL® Listed (UL1598A) for (only H3 Standard Tank):

- Marine Locations
- NEMA 4X, IP66

\* Classification may vary upon light source and wattage. For details, see Thermal Performance Chart on P.40.

#### Approvals/Characteristics



## Area lighting

Hazlux® 3 Standard housing

Assembly guide

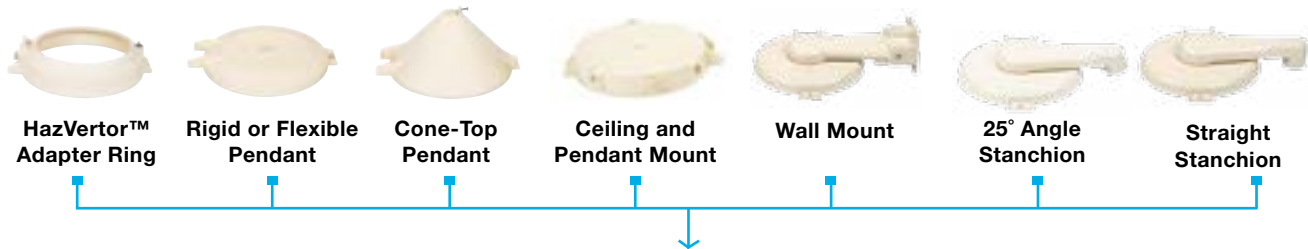
### Complete luminaire consists of:

- A mounting style
- Ballast Tank
- Globe or Refractor
- Optional Guard and/or Reflector



### Hazlux® 3 Standard Housing - Assembly Guide

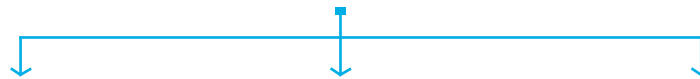
#### Mounting Style



#### Ballast Tank



Standard Housing



#### Globe or Refractor



Heat-Resistant Globe



Type V Refractor



Low-Bay Refractor



#### Guard



Polymeric Guard



Cast Guard



Wire Guard



#### Reflectors\*



Standard Dome



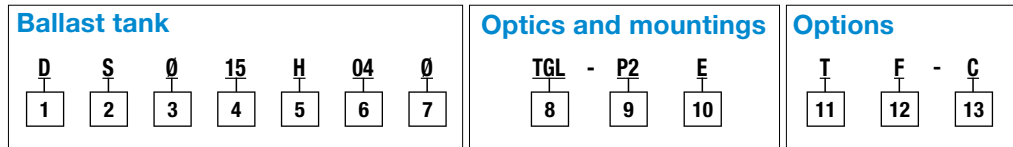
30° Angle Reflector

\*Reflectors are sold separately

## 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	
	C	150-Watt HPS 100V Only	
3. Starter Circuit/ Quartz Option	Ø	Standard Fixture (Without Options)	
	P	Pulse Start (MH Only)*	
	Q	Quartz Auxiliary Option (Not Hazardous Rated)	
	R	Instant Restart (50 - 150W HPS)	
	J	Auto Shutoff Starter (HPS Only)	
	4. Lamp Wattage	<b>Metal Halide Lamps</b>	
07		70W ED28	
10		100W ED28	
17		175W ED28 20	
20		200W ED28PS	
25		250W ED28	
<b>High Pressure Sodium Lamps</b>			
05		50W ED23 1/2	
07		70W ED23 1/2	
10		100W ED23 1/2	
15		150W ED23 1/2	
5. Ballast Circuit		H	High Reactance
		C	Constant Wattage Autotransformer (CWA)
		I	Constant Wattage Isolated Transformer (ICWI)
		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	
	20	208V, 60 Hz	
	24	240V, 60 Hz	
	27	277V, 60 Hz	
	34	347V, 60 Hz	
	48	480V, 60 Hz	
	225	220V, 50 Hz	
245	240V, 50 Hz		
7. Ballast Housing Style	Ø	Standard Housing	
	S	Standard Housing with Stainless Steel Inserts	

Optics & Mountings		
8. Optical Assembly Options*	TG	Thermal Shock-Resistant Globe
	TGC	Thermal Shock-Resistant Globe with Cast Guard
	TGL	Thermal Shock-Resistant Globe with PolymericGuard
	R2	12-in. Glass Refractor, Type II
	R5	12-in. Glass Refractor, Type V
	R2G	R2 with Wire Guard
	R5G	R5 with Wire Guard
	CBDL	Closed Bottom Refractor with Polycarbonate Lens
<i>*For silicone coating, please add suffix "S" before the first digit (ex. STG)</i>		
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	HazVektor™ Ring - Class I, Div. 2, Zone 2
	HV2	HazVektor™ Ring Class I Div. 2, Zone 2, Class II
	L4	1-1/4" Straight Stanchion
	L5	1-1/2" Straight Stanchion
	P2	3/4" Rigid Pendant
	P3	1" Rigid Pendant
	S4	1-1/4" 25° Angle Stanchion
S5	1-1/2" 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® black custom anti-corrosion coating (Consult factory)
12. Fusing Options	F	Fuse Block with Fuse*
13. Certification	C	Canadian Market

\*Fuse Block are not available for Marine Locations

### Certifications & Standards\*

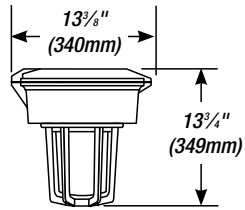
### Approvals/Characteristics

- 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

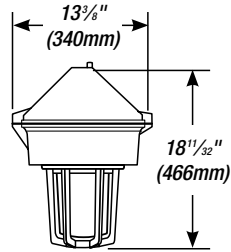


\*Classification may vary upon light source and wattage. For details, see Thermal Performance Chart on P.40.

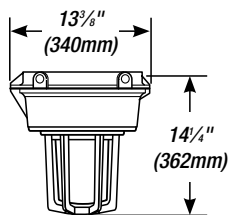
## Dimensions Standard housing with globe and guard



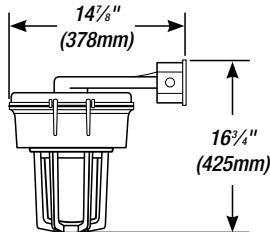
**Rigid and Flexible  
Pendant**



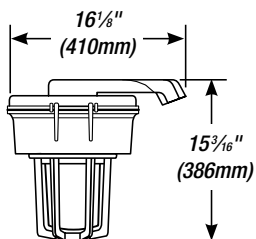
**Cone-Top Pendant**



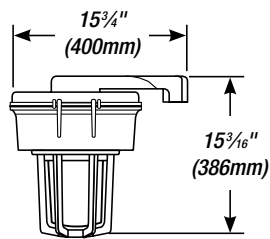
**Ceiling Mount**



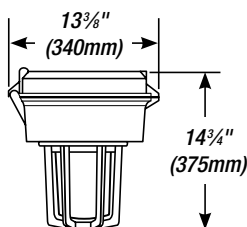
**Wall Mount**



**25° Angle Stanchion**



**Straight Stanchion**



**HazVector™ Ring**

## Photometry Standard housing with globe and guard

Ceiling Mount		Candlepower Curve
Reference Data		
Catalogue No.	DSO10H090-TGLA2E	
Lamp	100W HPS ED23 1/2	
Lamp Lumens	9500	
Input Watt	130	
Luminaire Lumens	8318	
Efficiency	88%	
Efficacy Rating (LER)	64.0	
Spacing Criterion (0-180)	3.56	
Spacing Criterion (90-270)	3.56	
Spacing Criterion (diagonal)	3.42	

Ceiling Mount		Candlepower Curve
Reference Data		
Catalogue No.	DHO17C090-TGLA3E	
Lamp	175W MH ED28	
Lamp Lumens	14000	
Input Watt	210	
Luminaire Lumens	12719	
Efficiency	91%	
Efficacy Rating (LER)	60.6	
Spacing Criterion (0-180)	2.38	
Spacing Criterion (90-270)	2.38	
Spacing Criterion (diagonal)	2.36	

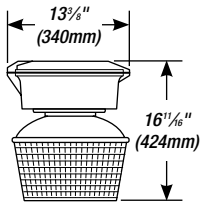
Ceiling Mount		Candlepower Curve
Reference Data		
Catalogue No.	DHO17C090-TGLA3E & VR22P	
Lamp	175W MH ED28	
Lamp Lumens	14000	
Input Watt	210	
Luminaire Lumens	10006	
Efficiency	71%	
Efficacy Rating (LER)	47.7	
Spacing Criterion (0-180)	1.52	
Spacing Criterion (90-270)	1.52	
Spacing Criterion (diagonal)	1.68	

## Area lighting

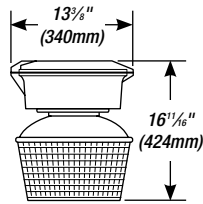
Hazlux® 3 Standard housing

### Dimensions

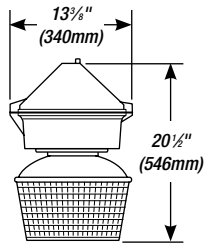
#### Standard housing with 12" refractor and guard



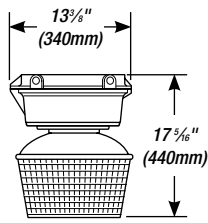
**Rigid Pendant**



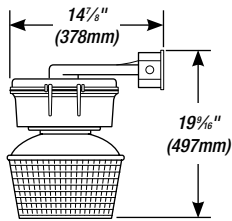
**Flexible Pendant**



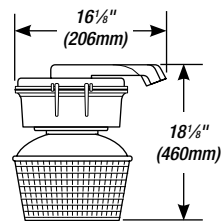
**Cone-Top Pendant**



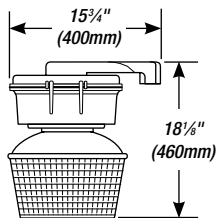
**Ceiling Mount**



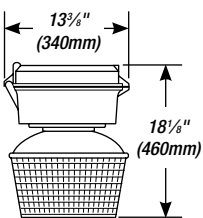
**Wall Mount**



**25° Angle Stanchion Mount**



**Straight Stanchion**



**HazVertor™ Ring**

### Photometry

#### Standard housing with 12" refractor and guard

Ceiling Mount		Candlepower Curve
Reference Data		
Catalogue No.	DHO17C090-R5A2E	
Lamp	175W MH ED28	
Lamp Lumens	14000	
Input Watt	210	
Luminaire Lumens	11 690	
Efficiency	84%	
Efficacy Rating (LER)	55.7	
Spacing Criterion (0-180)	1.46	
Spacing Criterion (90-270)	1.46	
Spacing Criterion (diagonal)	1.74	