

DL SERIES LED
HAZARDOUS AREA LIGHTING

Hazlux®



Thomas & Betts
A Member of the ABB Group

DL Series LED Hazardous Area Lighting

Thomas & Betts has taken the rugged, reliable design of Hazlux® lighting fixtures and introduced the availability of LED technology.

Tested and certified for use in hazardous locations and adverse environment conditions, the new LED technology offers easy retrofit, a field replaceable LED engine and driver, excellent performance, energy savings, and better T-Ratings.

Class I	Division 2, Groups A, B, C, and D Zone 2, Groups IIC, IIB, IIA
Class II	Division I and 2, Groups E, F, and G
Class III	
- UL1598A For Marine Locations	
- NEMA-4X	
- UL844	
- CSA C22.2 No. 137	



Contact your Thomas & Betts sales representative to verify classification.

Simultaneous Class I Division 2 and Class II

Designed for easy retrofit installation



- Simple to upgrade older technology by retrofitting existing luminaires using the same mounting style options as existing Hazlux® lighting
- Rated for extreme temperature (-40°C to 55°C) or (-35°C to 40°C) depending on model



- Straight-forward replacement of competitor's lighting luminaires without removing the top hat from the conduit system when used with the HazVertor® adapter ring

Field-replaceable LED engine and driver



- Easily replaceable using a connector, with no re-wiring required
- Strong fiberglass insulator protects the driver from the heat of the LED engine
- 5000K CCT and 70 CRI standard
- AC Input: 120 - 277 VAC 50/60 Hz (optional 347/480VAC 50/60 Hz driver) soft-start with 0.9 PF and over-voltage, over-temperature, and load short circuit protection built in

High-efficacy luminaire offers excellent performance and energy savings

Better T-Ratings and optimal thermal management extend led and driver life expectancy

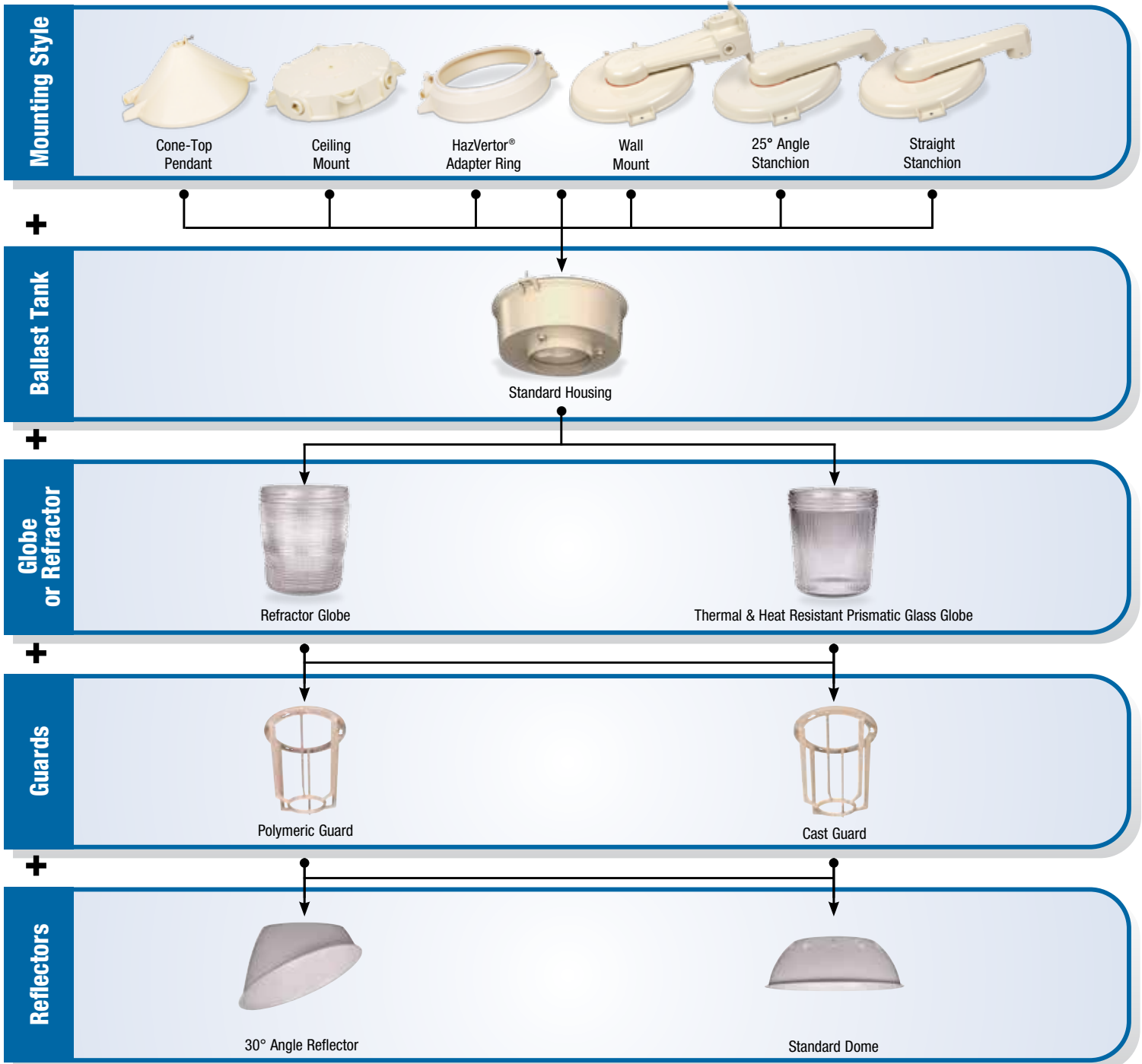
Model	Performance Rating			Temperature Code			
	AC Power (W)	Lumen	Lm/W	40°C		55°C	
				Class 1 Div 2	Class 1 Div 2 & Class II	Class 1 Div 2	Class 1 Div 2 & Class II
DL005	45	5,800	129	T5	T4A	T5	T4
DL007	58	7,100	122	T5	T4A	T5	T4
DL010	88	10,100	114	T4A	T4A	T4A	T4
DL015	122	15,600	128	T4	T3C	N.A.	N.A.
DL017	131	17,800	135	T4	T3C	N.A.	N.A.
DL020	166	20,400	123	T3C	T3C	N.A.	N.A.

Assembly Guide


Complete luminaire consists of:

A MOUNTING STYLE

- + BALLAST TANK
- + GLOBE OR REFRACTOR
- + OPTIONAL GUARD AND/OR REFLECTOR



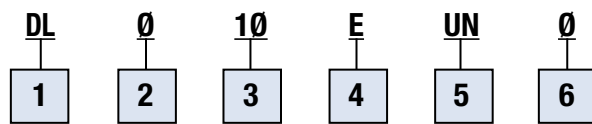
Catalog Numbering System

Class I	Division 2, Groups A, B, C, and D Zone 2, Groups IIC, IIB, IIA
Class II	Division I and 2, Groups E, F, and G
Class III	
<ul style="list-style-type: none"> - UL1598A For Marine Locations - NEMA-4X - UL844 - CSA C22.2 No. 137 	
	
<p>Contact your Thomas & Betts sales representative to verify classification.</p>	

Simultaneous Class I Division 2 and Class II

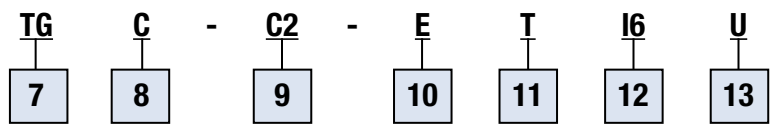
Hazlux DL Series Model	Equivalent HID Luminaire
DL005	100W
DL007	175W
DL010	250W
DL015	400W

LED Driver Tank



- 1 Fixture Series**
DL = Hazlux® 3 LED series
- 2 Fixture**
0 = Standard fixture
- 3 Lumen Output**
05 = 5,800 lumens, 45W
07 = 7,100 lumens, 58W
10 = 10,100 lumens, 88W
15 = 15,600 lumens, 122W
17 = 17,800 lumens, 131W
20 = 20,400 lumens, 166W
- 4 Driver Circuit**
E = Electronic LED driver
- 5 Voltage/Frequency**
UN = Universal 120 to 277VAC 50/60Hz
(voltage range includes 208V, 220V, 240V)
UN2 = Universal 347/480VAC 50/60Hz
(Not available for DL017 and DL020)
- 6 LED Driver Housing Style**
0 = Standard housing
S = Standard housing with stainless-steel insert
- 7 Order Assembly Options***
TG = Thermal & heat-resistant prismatic glass globe
R1 = Type I glass refractor globe
R3 = Type III glass refractor globe
R5 = Type V glass refractor globe

Optics & Mounting



- 8 Guard Option**
Blank = No guard
C = Cast aluminum guard
L = Polymeric guard
- 9 Fixture**
A2 = ¾ in. cone-top pendant
A3 = 1 in. cone-top pendant
B2 = ¾ in. wall mount
B3 = 1 in. wall mount
C2 = ¾ in. ceiling mount
C3 = 1 in. ceiling mount
HV2 = HazVertor® ring Class I Div. 2 Zone 2
L4 = 1¼ in. straight stanchion
L5 = 1½ in. straight stanchion
S4 = 1¼ in. 25° angle stanchion
S5 = 1½ in. 25° angle stanchion
Blank = No mounting (to replace existing fixture)
- 10 UNIPAK® Option**
E = UNIPAK® with LED light source
- 11 Special Options**
T = HazCote® custom anti-corrosion coating (Consult factory)
G = Gray color option
- 12 Light Distribution Options****
I3 = Internal reflector 35° beam angle
I4 = Internal reflector 45° beam angle
I6 = Internal reflector 65° beam angle
- 13 Rating Label**
U = Labeled for shipment to the United States

*Teflon® coating is available - contact technical support for additional information. Teflon is a registered trademark of du Pont de Nemours and Company or its affiliates.

**DL005, DL007 and DL010 only

Individual Components

Mounting Options



Cone-Top Pendant



Ceiling Mount



HazVerter®
Adapter Ring



Wall Mount



25° Angle
Stanchion



Straight Stanchion

CAT. NO.	DESCRIPTION	CONDUIT HUB SIZE
VA2	Cone-Top Pendant	3/4"
VA3		1"
VC2	Ceiling Mount	3/4"
VC3		1"
VB2-VIB	Wall Mount	3/4"
VB3-VIB		1"
VS4-VIB	25° Angle Stanchion	1 1/4"
VS5-VIB		1 1/2"
VL4-VIB	Straight Stanchion	1 1/4"
VL5-VIB		1 1/2"
HV2	HazVerter® Adapter Ring	N/A

Globes or Refractors



Refractor Globe



Heat-Resistant
Prismatic
Glass Globe

CAT. NO.	DESCRIPTION*
VGT15	Heat-Resistant Prismatic Glass Globe
VGL15R1	IES Type I Refractor Globe
VGL15R3	IES Type III Refractor Globe
VGL15R5	IES Type V Refractor Globe

*Teflon® coating is available - contact technical support for additional information.

Guards



Polymeric
Guard



Cast
Guard

CAT. NO.	DESCRIPTION
VGU22P	Polymeric Guard
VGU22	Cast Guard

Reflectors



30° Angle
Deflector



Standard
Dome

CAT. NO.	DESCRIPTION
VR15P	Standard Dome, Fiberglass-Reinforced Polyester
VRA15P	Angular Dome, Fiberglass-Reinforced Polyester

Individual Components *(continued)*

LED Engine Modules and Drivers



LED Engine
Module

Note: Only for models DL005, DL007 and DL010

** To include clamps for optional internal reflector, change the part # to 039525-H.*

HAZLUX® CAT. NO.	LED ENGINE CAT. NO.	DRIVER	
		120–277 VAC	347–480 VAC
DL005	039499-W*	183.0141-H	183.0151-H
DL007	039499-W*	183.0142-H	183.0152-H
DL010	039499-W*	183.0143-H	183.0161-H
DL015	039501-H	183.0145-H	183.0151-H
DL017	039502-H	183.0146-H	N/A
DL020	039502-H	183.0144-H	N/A

Internal Reflectors



Reflector



Reflector
(Actual Application)

Note: Only for models DL005, DL007 and DL010

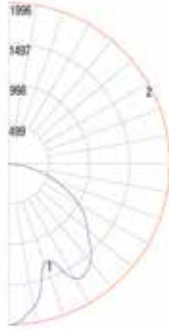
CAT. NO.	DESCRIPTION
145.0056-H	I3 Internal Reflector 35° Beam Angle
145.0057-H	I4 Internal Reflector 45° Beam Angle
145.0058-H	I6 Internal Reflector 65° Beam Angle

Dimensions & Globe Photometric Data

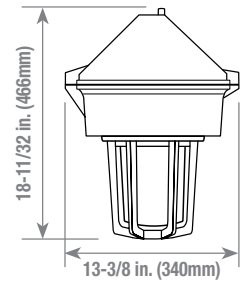
Photometry Reference Data Standard Ballast Housing with Globe and Guard — Ceiling Mount

Catalog No.	DL005EUNOTGC2EU
Luminaire Lumens	5,895
Luminaire Efficacy Rating (LER)	131
Input Watt	45.07
Spacing Criterion (0-180)	1.3
Spacing Criterion (90-270)	1.3
Spacing Criterion (Diagonal)	1.44

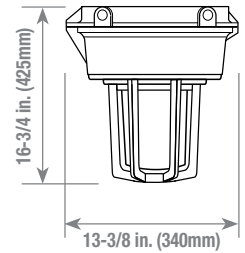
Candlepower Curve



Cone-Top Pendant

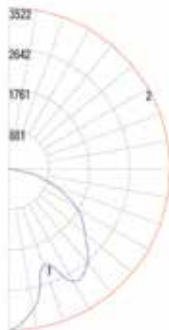


Ceiling Mount

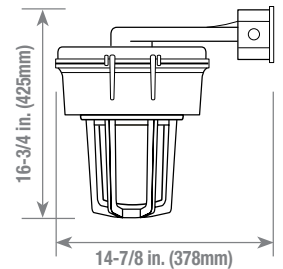


Catalog No.	DL010EUNOTGC2EU
Luminaire Lumens	10,123
Luminaire Efficacy Rating (LER)	115
Input Watt	88.19
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.4

Candlepower Curve

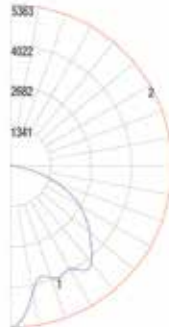


Wall Mount

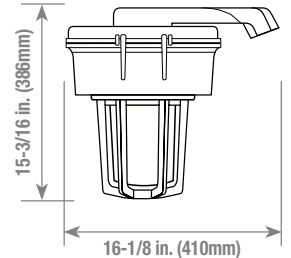


Catalog No.	DL015EUNOTGC2EU
Luminaire Lumens	15,605
Luminaire Efficacy Rating (LER)	128
Input Watt	121.8
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	1.42

Candlepower Curve

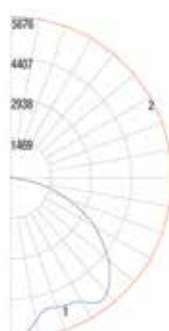


25° Angle Stanchion Mount

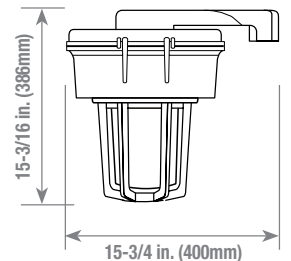


Catalog No.	DL020EUNOTGC2EU
Luminaire Lumens	20,476
Luminaire Efficacy Rating (LER)	123
Input Watt	166.1
Spacing Criterion (0-180)	1.46
Spacing Criterion (90-270)	1.46
Spacing Criterion (Diagonal)	1.58

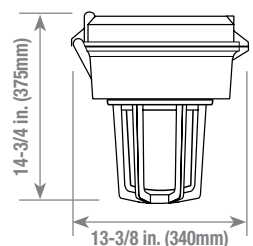
Candlepower Curve



Straight Stanchion



HazVector™ Ring



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Industry codes and specifications

All Thomas & Betts products meet or exceed applicable industry specifications or codes which are detailed in the appropriate T&B product literature.



Online CAD library

Thomas & Betts offers free download of two- and three-dimensional CAD models of many of its products in more than 90 native CAD formats at: www.tnb.com/cadlibrary

WARRANTY:

Thomas & Betts (“T&B”) sells this product with the understanding that the user will perform all necessary tests to determine the suitability of this product for the user’s intended application. Subject to the limitations set forth below, T&B warrants that the Hazlux LED luminaire, excluding the LED Driver, will be free from defects in material and workmanship for a period of **five (5) years** beginning on the date of installation or 90 days from the date of shipment, whichever date is earlier. Subject to the limitations set forth below, T&B warrants that the LED driver will be free from defects in material and workmanship for a period of **two (2) years** beginning on the date of installation or 90 days from the date of shipment, whichever date is earlier.

WARRANTY LIMITATIONS AND EXCLUSIONS:

The above warranty shall only apply when the product is installed in applications in which ambient temperatures are within the range of specified operating temperatures and is operated within the electrical values shown on the LED driver label. This warranty is also void if the product has been subjected to misuse, neglect, accident, fire, physical damage, improper installation, unauthorized modification, or use in violation of our instructions or any applicable laws, codes or ordinances. Upon prompt notification of a warranted defect, T&B will, at its option, repair or replace any products found to be defective under normal installation, use and service. T&B reserves the right to replace any warranted product with a substitute product of similar function if the warranted product is no longer available.

THE ABOVE WARRANTY IS THE SOLE WARRANTY CONCERNING THIS PRODUCT, AND IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE SPECIFICALLY DISCLAIMED. LIABILITY FOR BREACH OF THE ABOVE WARRANTY IS LIMITED TO COST OF REPAIR OR REPLACEMENT OF THE PRODUCT, AND UNDER NO CIRCUMSTANCES WILL THOMAS & BETTS BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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Please ask your Thomas & Betts sales representative for a complete catalog of quality Thomas & Betts electrical products or visit us at www.tnb.com. For customer service, call **1-800-816-7809**. For technical questions, call **1-888-862-3289**.

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