Hazlux[®] Lighting Fixtures

Safe, durable and now available with LED technology for superior energy efficiency

Thomas & Betts **Hazlux**[®] luminaires are known as high quality industrial lighting fixtures designed, tested and certified for use in hazardous locations and adverse environment conditions. Specifiers rely on **Hazlux**[®] to safely provide light where it's needed — even under the harshest indoor and outdoor conditions.

Safe, dependable, durable **Hazlux**[®] luminaires are now available with LED technology to offer longer life, enhanced energy efficiency, reduced maintenance, and a smaller footprint.

All **Hazlux**[®] LED products are designed and assembled in Canada for exceptional service and support with reduced lead times. Experienced assembly operation easily accommodates both large and small production runs with a fast turnaround.





Hazlux[®] durability meets LED technology

Superior performance lighting for hazardous locations

High-efficacy luminaire offers excellent performance and energy savings

Thomas & Betts has taken the rugged, reliable design of Hazlux® lighting fixtures and introduced the capabilities of LED technology to create a high-performance luminaire with an impressive lumen output.

Hazlux Model	AC Power (W)	Lumens	Lm/W
DL005	45	5 800	129
DL007	58	7 100	122
DL010	88	10 000	114
DL015	122	15 600	128
DL017	131	17 800	135
DL020	166	20 400	123

Higher T-ratings and optimal thermal management extend LED and driver life expectancy

With an exclusive design that maximizes heat dissipation, Hazlux® LED fixtures lower internal temperature allow for higher T-rating and extended LED and driver life in extreme ambient temperatures.

With the entire luminaire acting as a heat sink, Hazlux[®] LED fixtures allow higher wattages for better performance.

Horlux	∎amb	= 40 °C T amb = 55 °C		T amb = $40 \degree C$ T amb = $55 \degree C$	
Model	Classe I Div 2	Classe I Div 2 et Classe II	Classe I Div 2	Classe I Div 2 et Classe II	
DL005	T5	T4A	T5	Т4	
DL007	T5	T4A	Т5	Т4	
DL010	T4A	T4A	Т4	Т4	
DL015	T4	тзс	s.o.	S.0	
DL017	Т4	тзс	s.o	S.0	
DL020	тзс	тзс	S. 0	S. 0	

Versatile optics include reflector options for diffuse light distribution

The Hazlux[®] LED fixture is available with a thermal-resistant globe and a variety of reflectors for the ideal beam angle from 35° to 65°.





Labor-saving installation and maintenance-friendly construction

Designed for easy retrofit installation

Using the same mounting style options as existing Hazlux[®] lighting fixtures, the new LED luminaires can easily be attached as retrofit fixtures.* The HazVertor[™] adapter ring makes it easy to replace Crouse-Hinds Champ[®] series lighting fixtures without removing the top hat from the conduit system.

Hinged design for hands-free wiring

Easy tank access allows Hazlux[®] lighting fixtures to be maintained quickly and safely. The hinged lid is designed to support the weight of the tank, leaving both the installer's hands free.

Field-replaceable LED engine and driver

The LED driver is designed in its own compartment so it can be easily replaced in the field using a connector, with no re-wiring required. A fiberglass insulator protects the driver from the heat of the LED engine.

Robust construction for long life expectancy

Cast, copper-free aluminum construction offers corrosion resistance in a strong, lightweight fixture for maximum life expectancy. Baked epoxy powder finishes and stainless steel exposed hardware provide additional corrosion resistance.

Certifications shown on external surface

An easily identifiable nameplate displays third party certification for all electrical and hazardous location ratings as required by the Canadian Electrical Code, OSHA regulations and CSA to provide peace of mind, confirming that the correct lighting fixture with the required certifications is in place.



Class I Division 2, Groups A, B, C and D Zone 2, Groups IIC, IIB, IIA			Catalogue
Class II Divisions I and 2, Groups E, F and G		numb	perina system
Class III			
- UL1598A for Marine Locations			
- NEMA-4X - UL844			
- CSA C22.2 No 137			
Contact your Thomas & Betts sales representative to verify classification	n		
Simultaneous Class I Division 2 and Class II			
LED Driver Tank		Optics & mounting	Options
1 2 3 4 5 6	7	8 9 10	11 12
DL O 10 E UN O	TG	C C2 E	Т 16
1 Fixture series	7 Ord	der assembly options	11 Special options
DL – Hazlux [®] 3 LED series	TG -	Thermal shock-resistant	T − HazCote [®] custom
		glass globe	anti-corrosion coating
	R1 =	Type I glass refractor globe	(Consult factory)
2 Fixture	R3 =	Type III glass refractor globe	G = Grey colour option
	R5 =	Type V glass refractor globe	
• = Standard fixture			12 Light distribution options
	8	Guard option	
3 Lumen output		-	I3 = Internal reflector
	Blank=	No guard	35 beam angle*
05 = 5,800 lumens, 45W	C =	Cast aluminum guard	45° beam angle*
07 = 7,100 lumens, 58W	L =	Polymeric guard	IG = Internal reflector
10 = 10,100 lumens, 88W			65 beam angle [*]
17 = 17,800 lumens, 122W	9	Mounting style	
20 = 20,400 lumens, 166W			* : DL005, DL007 and DL010 only
	A2 =	3/4 in. cone-top pendant	
	A3 =	1 in. cone-top pendant	
4 Driver circuit	- 62 = 83	1 in. wall mount	
= Electronic LED driver	C2 =	3/4 in. ceiling mount	
	C3 =	1 in. ceiling mount	
	HV1 =	HazVertor [™] adapter ring	
5 Voltage/Frequency	HV2 -	HazVertor [™] adapter ring	
		Class I Div. 2, Zone 2	
50/60Hz (voltage range includes		Class 2	
208V. 220V. 240V etc.)	L4 =	1-1/4 in. straight stanchion	
UN2 = Universal 347/480/AC	 	1-1/4 in. 25° angle stanchion	
50/60Hz (Not available for DL017	S5 =	1-1/2 in. 25° angle stanchion	
and DL020)	Blank=	No mounting	
		(to replace existing fixture)	
6 LED driver bousing style	10		
LED driver housing style		ONDAR Option	
• = Standard housing	E =	UNIPAK™	
S = Standard housing		with LED light source	
with stainless-steel insert			

Hazlux[®] 3 LED DL Series

Individual Components















Dimensions & globe photometric data

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

Catalogue No.	DL005EUN0TGC2E	Candlepower C
Luminaire Lumens	5,895	
Luminaire Efficacy Rating (LEF	R) 131	
Input Watt	45.07	
Spacing Criterion (0-180)	1.3	
Spacing Criterion (90-270)	1.3	
Spacing Criterion (Diagonal)	1.44	



Catalogue No.	DL010EUN0TGC2E	Candlepower (
Luminaire Lumens	10,123	
Luminaire Efficacy Rating (LEF	R) 115	
Input Watt	88.19	
Spacing Criterion (0-180)	1.24	
Spacing Criterion (90-270)	1.24	
Spacing Criterion (Diagonal)	1.4	

3027 2662 11767 2 88

Catalogue No.	DL015EUNOTGC2E	Candlepowe
Luminaire Lumens	15,605	
Luminaire Efficacy Rating (L	ER) 128	
Input Watt	121.8	
Spacing Criterion (0-180)	1.08	
Spacing Criterion (90-270)	1.08	
Spacing Criterion (Diagonal)	1.42	



Curv

Catalogue No.	DL020EUNOTGC2E	Candlepo
Luminaire Lumens	20,476	
Luminaire Efficacy Rating (LE	ER) 123	
Input Watt	166.1	
Spacing Criterion (0-180)	1.46	
Spacing Criterion (90-270)	1.46	
Spacing Criterion (Diagonal)	1.58	



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Hazlux[®] 3 LED DL Series

Refractor photometric data

Photometry reference data — Standard ballast housing with glass refractor — Ceiling mount

Catalogue No.	DL010EUN0	R1C2E Can	dlepowe
Luminaire lumens	8,047		
Luminaire efficacy rating (LER)	92		
Total luminaire watts	87		
Maximum Candela	2,890		
Maximum Candela (< 90° Vertical)	2,890		
Maximum Candela at 90° Vertical	887	(11.0% luminaire lume	ns)
Maximum Candela from 80 to < 90°	Vertical 1,463	(18.2% luminaire lume	ens)



DL010EUNOR3C2E	Candlepower
8,649	
87.27	
3,731	
3,731	
883 (10.2% lumin	aire lumens)
Vertical 1,308 (15.1% lumina	aire lumens)
	BLO10EUNOR3C2E 8,649 99 87.27 3,731 3,731 883 (10.2% lumin Vertical 1,308









Overview Hazardous locations

Hazardous Locations

A hazardous location is defined as an area where the possibility of explosion and fire is created by the presence of flammable gases, vapors, dust, fibers or flyings.

Class I — Gas

Class I locations are those in which flammable gases, flammable liquid-produced vapors or combustible liquid-produced vapors are or may be present in the air in quantities sufficient to produce explosive or ignitable mixtures.

Typical Class I Locations:

- Petroleum refineries and gasoline storage and dispensing areas
- Industrial firms that use flammable liquids in dip tanks for parts cleaning or other operations
- Detre chaming of other operations
- Petrochemical companies that manufacture chemicals from gas and oil
 Dry cleaning plants where vapors from cleaning fluids can be present
- Companies that have spraying areas where they coat products with paint or plastics
- Aircraft hangars and fuel serving areas
- Utility gas plants and operations involving storage and handling of liquified petroleum gas or natural gas

Class II — Dust

Class II locations are those that are hazardous because of the presence of combustible dust.

Typical Class II Locations:

- Grain elevators, flour and feed mills
- Plants that manufacture, use or store magnesium or aluminum powders
- Plants that have chemical or metallurgical processes:
- producers of plastics, medicines and fireworks, etc. <u>Producers</u> of starch or candies
- Spice-grinding plants, sugar plants and cocoa plants
- Coal preparation plants and other carbon handling or processing areas

Class III — Fibers

Class III locations are those that are hazardous because of the presence of easily ignitable fibers or where materials producing combustible flyings are handled, manufactured or used, but in which such fibers/flyings are not likely to be in suspension in the air in quantities sufficient to produce ignitable mixtures.

Typical Class III Locations:

- Textile mills, cotton gins, cotton seed mills and flax processing plants
- Any plant that shapes, pulverizes or cuts wood and creates sawdust or flyings

Note: Fibers and flyings are not likely to be suspended in the air but can collect around machinery or on lighting fixtures and where heat, a spark or hot metal can ignite them.



Division 1 — Normally Hazardous

Hazardous gases or dusts are present under normal operation conditions or during frequent repair and maintenance activity.

Division 2 — Not Normally Hazardous

Hazardous gases or dusts are not present under normal operating conditions.

Groups A, B, C, D

The gases and vapors of Class I locations are broken into four groups by the code A, B, C and D. These materials are grouped according to the ignition temperature of the substance, its explosion pressure and other flammable characteristics.

Groups E, F, G

Class II dust locations groups E, F and G are classified according to the ignition temperature and the conductivity of the hazardous substance.

Note: These are simplified definitions — complete data is in the Canadian Electicral Code (C.E.C)