Hazlux® H3 LED Series

A safe, dependable and rugged luminaire with an exclusive design that maximizes heat dissipation, offers excellent performance and energy efficiency.

CERTIFICATION

CLASS I	
Division 2	Group A, B, C, D
Zone 2	Groups IIC, IIB, IIA
CLASS II	
Division 1	Group E, F, G[1]
Division 2	Group F, G[2]
CLASS III	

[1]Optics: CUT reflector not suitable for Class II, Div 1.
Classification may vary depending on the product configuration. Please follow catalogue information and exceptions.

APPROVALS

Not all DL series are DLC qualified. For all qualified products, please visit: www.designlights.org/qpl

NEMA 4X

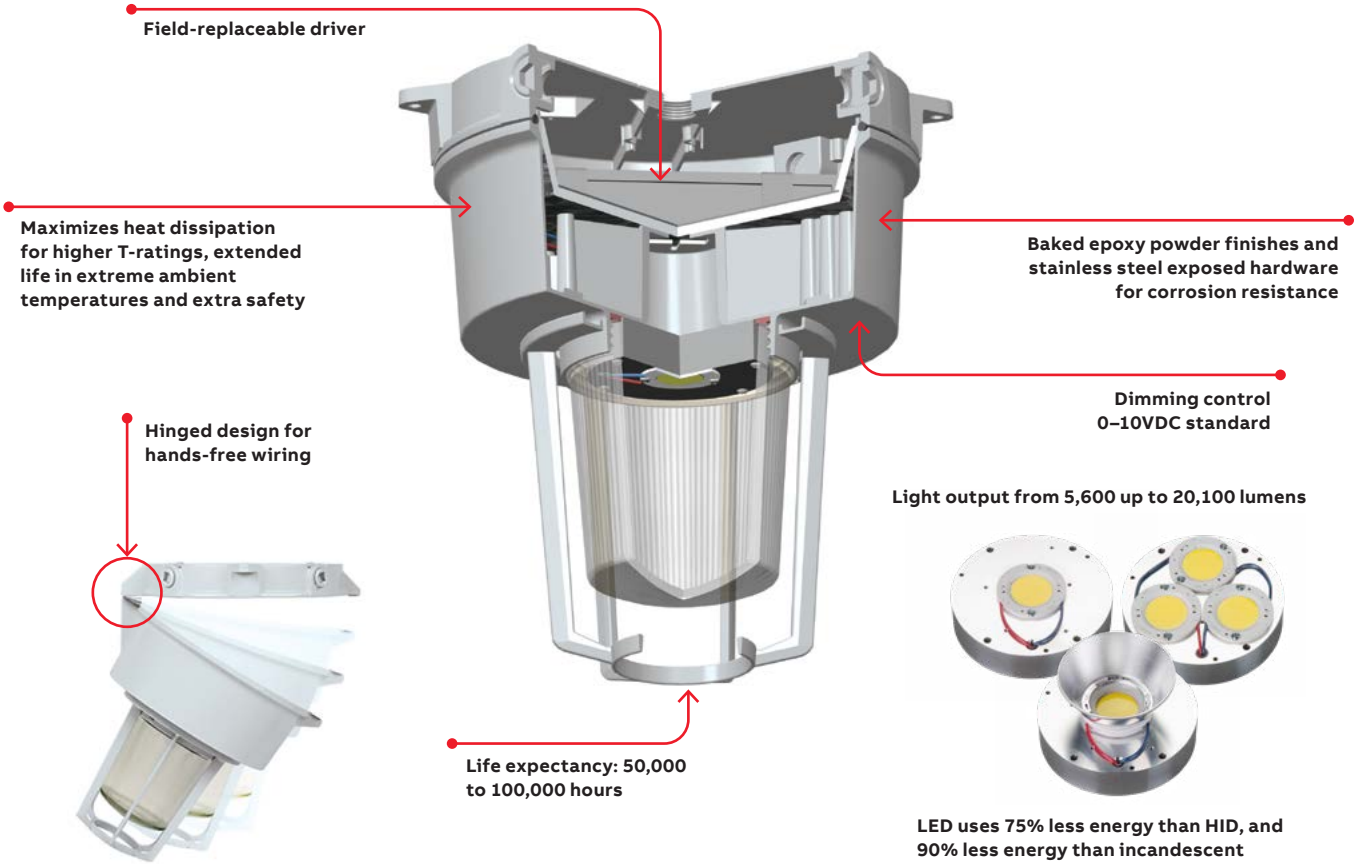
US

c UL us LISTED E65285

UL844
UL1598
UL8750

APPLICATIONS

- High mast
- Parking lots
- Tunnels
- Swimming pools
- High bay
- Coolers and freezers
- Inspection
- Quality control areas
- Packaging areas
- Hangars
- Storage facilities
- Oil and gas processing
- Agricultural
- Chemical/industrial facilities



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Hazlux® H3 LED Series

Key features and information

FEATURES

- Operating temperature: -40°F to 131°F (-40°C to 55°C)
- Field-replaceable driver
- Higher T-ratings, extended life in extreme ambient temperatures and extra safety
- Versatile optics include internal reflector options with 35°, 45° and 65° beam angles

HOUSING

- Baked epoxy powder finishes and stainless steel exposed hardware for corrosion resistance
- Hinged design for hands-free wiring
- Borosilicate glass globes and polycarbonate CUT lens available
- Available with multiple distribution patterns
- Housing made of copper-free aluminum
- Gray color option and special black anti-corrosion coating available (Hazcote)
- Glass Teflon coating option available (TG globe only)

LED

- Efficacy: up to 151Lm/W
- Lumen output: from 5,600 lumens to 20,100 lumens
- Bridgelux LED's
- CRI Ra>70
- Correlated Color Temperature (CCT): 5,000K (standard), 3,000K, 3,500K, 4,000K (optional)

ELECTRICAL

- 0-10VAC dimming
- Operating voltage: universal 120-277VAC (voltage range includes 208VAC, 220VAC, 240VAC, etc.), 347-480VAC (50/60Hz)
- Power factor 0.9
- Driver efficiency 90%
- THD <20%

MOUNTING

- Cone-top pendant mount
- Ceiling and pendant mount
- Wall mount
- Pendant mount
- 25° angle stanchion mount
- 90° stanchion mount
- HazVertor™ ring

APPROVALS

- UL844
- CSA C22.2 No. 137
- UL 1598 wet locations
- UL 8750 LED safety
- cUL approved to CSA 22.2 No. 137, CSA 22.2 No. 250.0-08, CSA 22.2 No. 250.13
- DLC: not all product variations listed on this page are DLC qualified. Visit www.designlights.org/search to confirm qualification.
- NEMA 4X

WARRANTY

- 5 year limited warranty

T-code chart

	Class I Zone 2 Groups IIC, IIB, IIA	Class I Division 2 Groups A, B, C, D	Class II Groups E, F, G	Simultaneous Class I Division 2 and Class II
Glass globe DL005, DL007, DL010				
Ambient temp. -40° to 104°F (-40 to 40˚C)	T5	T5	T6	T5
Ambient temp. -40° to 131°F (-40° to 55°C)	T4	T4A	T6	T4A
Glass globe DL005, DL007, DL010 with internal reflector I3, I4, I6				
Ambient temp. -40° to 104°F (-40° to 40°C)	T4	T4A	T6	T4A
Glass globe DL015, DL017, DL020				
Ambient temp. -40° to 104°F (-40° to 40°C)	T4	T4A	T4A	T4A
Optic type CUT DL005, DL007, DL010				
Ambient temp. -40° to 104°F (-40 to 40˚C)	T5	T5	T5[1]	T5[1]
Ambient temp. -40° to 131°F (-40° to 55°C)	T4	T4A	T4A[1]	T4A[1]
Optic type CUT DL015, DL017, DL020				
Ambient temp. -40° to 104°F (-40° to 40°C)	T4	T4A	T4A[1]	T4A[1]

[1]Cut reflector: Class II, Division 2, Groups F, G only

Surge suppression rating

ANSI C82.77-5 CAT C low compliant – no external surge suppression device required.

ANSI surge type	Differential mode (L-N)	Common mode (L-G, N-G, L and N-G)
1.2/50 µs combination wave (w/t 2 Ω)	6kV	6kV

Hazlux® H3 LED Series

ELECTRICAL SPECIFICATIONS

Design Lights Consortium (DLC): summary of test results

	Electrical, 120-277VAC			Photometry, 120-277VAC		Photometry, 120-277VAC	
				TG globe		CUT reflector	
Model	Power (W)	Power factor	THD	Lumens	Lm/W	Lumens	Lm/W
DL010	71.9	0.97	10.1%	10,706	147.8	9,814	135.4
DL015	103.0	0.97	11.0%	16,063	155	14,564	140.7
DL020	137	0.97	12.3%	20,468	147.2	18,782	135.3

	Electrical, 347VAC			Photometry, 347VAC		Photometry, 347VAC	
				TG globe		CUT reflector	
Model	Power (W)	Power factor	THD	Lumens	Lm/W	Lumens	Lm/W
DL010	70.2	0.99	7.1%	10,582	147.7	9,659	134.9
DL015	104.9	0.99	7.6%	-	-	-	-
DL020	141.2	0.99	7.8%	21,284	149.6	19,065	134.1

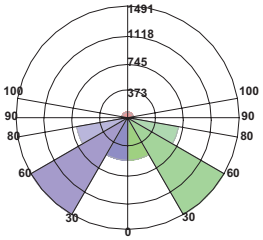
Summary of test results: Certified for optics TG globe and CUT reflector, and for AC input 120VAC, 277VAC and 347VAC

Hazlux® H3 LED Series

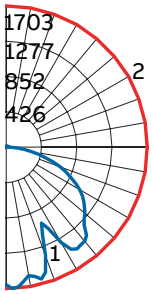
PHOTOMETRY

Standard globe	
Catalog number	**DL005EUN0-TGC2**
Luminaire lumens	5,764
Luminaire efficacy rating (LER)	156
Input watts	37.01
Spacing criterion	0.88
Spacing criterion (90–270)	0.88
Spacing criterion (diagonal)	1.52

Luminaire classification system



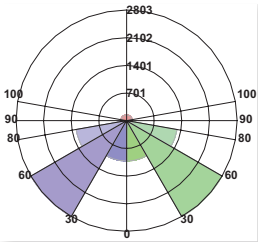
Candlepower curve



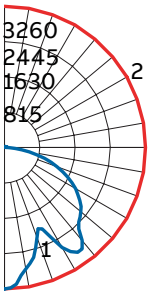
BUG rating : B2-U3-G1

Standard globe	
Catalog number	**DL010EUN0-TGC2**
Luminaire lumens	10,739
Luminaire efficacy rating (LER)	148
Input watts	72.44
Spacing criterion	0.82
Spacing criterion (90–270)	0.82
Spacing criterion (diagonal)	1.46

Luminaire classification system



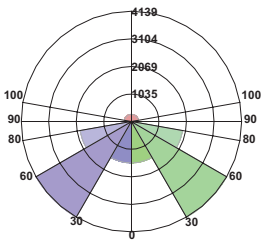
Candlepower curve



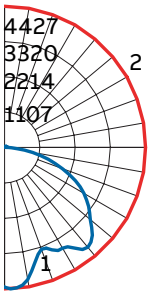
BUG rating : B3-U3-G2

Standard globe	
Catalog number	**DL015EUN0-TGC2**
Luminaire lumens	16,110
Luminaire efficacy rating (LER)	155
Input watts	103.66
Spacing criterion	1.32
Spacing criterion (90–270)	1.32
Spacing criterion (diagonal)	1.58

Luminaire classification system



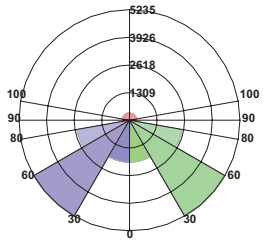
Candlepower curve



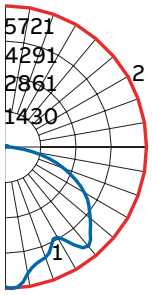
BUG rating : B3-U3-G3

Standard globe	
Catalog number	**DL020EUN0-TGC2**
Luminaire lumens	20,530
Luminaire efficacy rating (LER)	148
Input watts	139.02
Spacing criterion	1.10
Spacing criterion (90–270)	1.10
Spacing criterion (diagonal)	1.56

Luminaire classification system



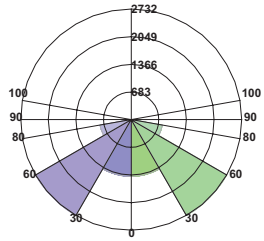
Candlepower curve



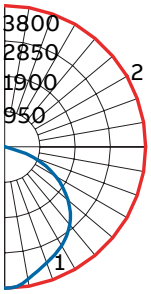
BUG rating : B4-U3-G3

CUT reflector	
Catalog number	**DL010EUN0-CUTC2**
Luminaire lumens	9,846
Luminaire efficacy rating (LER)	136
Input watts	72.47
Spacing criterion	1.22
Spacing criterion (90–270)	1.22
Spacing criterion (diagonal)	1.38

Luminaire classification system



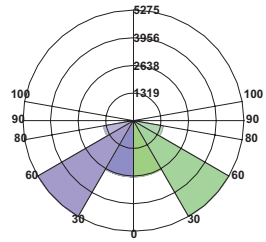
Candlepower curve



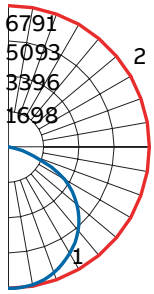
BUG rating : B3-U0-G1

CUT reflector	
Catalog number	**DL020EUN0-CUTC2**
Luminaire lumens	18,841
Luminaire efficacy rating (LER)	136
Input watts	138.8
Spacing criterion	1.30
Spacing criterion (90–270)	1.30
Spacing criterion (diagonal)	1.42

Luminaire classification system



Candlepower curve



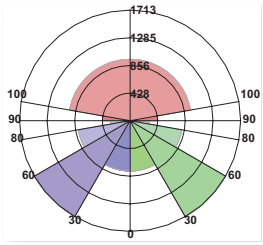
BUG rating : B4-U0-G1

Hazlux® H3 LED

PHOTOMETRY

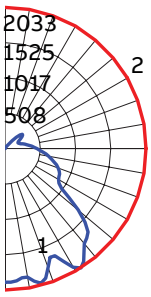
R5 globe	
Catalog number	**DL010-R5**
Luminaire lumens	9,763
Luminaire efficacy rating (LER)	132
Input watts	75
Spacing criterion	1.42
Spacing criterion (90–270)	1.42
Spacing criterion (diagonal)	1.54

Luminaire classification system



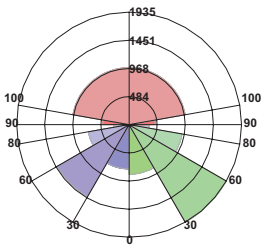
BUG rating : B2-U4-G3

Candlepower curve



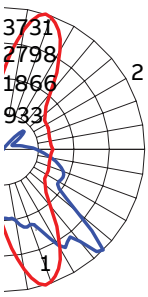
R3 globe	
Catalog number	**DL010-R3**
Luminaire lumens	9,851
Luminaire efficacy rating (LER)	133
Input watts	75
Spacing criterion	1.40
Spacing criterion (90–270)	1.82
Spacing criterion (diagonal)	1.46

Luminaire classification system



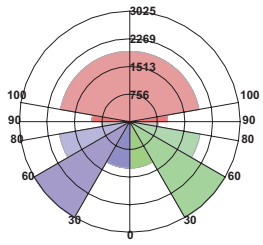
BUG rating : B2-U4-G3

Candlepower curve



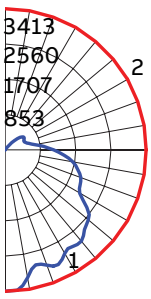
R5 globe	
Catalog number	**DL020-R5**
Luminaire lumens	18,767
Luminaire efficacy rating (LER)	137
Input watts	137
Spacing criterion	1.44
Spacing criterion (90–270)	1.44
Spacing criterion (diagonal)	1.62

Luminaire classification system



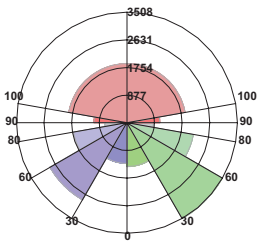
BUG rating : B2-U5-G5

Candlepower curve



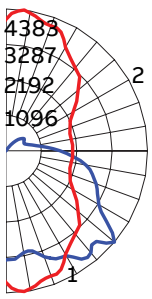
R3 globe	
Catalog number	**DL020-R3**
Luminaire lumens	18,764
Luminaire efficacy rating (LER)	137
Input watts	137
Spacing criterion	1.40
Spacing criterion (90–270)	1.90
Spacing criterion (diagonal)	1.58

Luminaire classification system



BUG rating : B3-U5-G5

Candlepower curve



Hazlux® H3 LED Series

MOUNTING AND OPTIONAL ACCESSORIES (sold separately)

Fixture assembly guide

1 **Mounting options**

Cone-top pendant | Ceiling and pendant mount | Wall mount | Pendant | HazVertor™ ring | 25˚ Angle stanchion | Straight stanchion

2 **LED driver tank**

3 **Globe or reflector**

Heat-resistant globe | Refractor globe R1 | Refractor globe R3 | Refractor globe R5 | CUT

4 **Guard** (N/A for CUT)

Cast guard

Mounting accessories

Part number	Description	Conduit hub size
VA2	Cone-top pendant[1]	3/4"
VA3		1"
VC2	Ceiling & pendant mount[1]	3/4"
VC3		1"
VB2-VIB	Wall mount[1]	3/4"
VB3-VIB		1"
VP2	3/4" Rigid pendant[1]	3/4"
VS4-VIB	25° Angle stanchion[1]	1-1/4"
VS5-VIB		1-1/2"
VL4-VIB	Straight stanchion[1]	1-1/4"
VL5-VIB		1-1/2"
HV3*	HazVertor™ adaptor ring Crouse-Hinds ceiling, pendant[2] & straight stanchion top hats[1,3]	
HV4*	HazVertor™ adaptor ring stanchion angle mount[1,3]	
HV5*	HazVertor™ adaptor ring wall mount[1,3]	

*HV3, HV4 and HV5 HazVertors™ are CSA/CSAus certified
For gray finish, please add "G" to the part number
Note: • For Canadian market, please add "-CA" to the part no. (ex: VA2-CA)
• For US, ex: VA2G. For Canada, ex: VA2G-CA

Globes or refractors

Part number	Description
VGT15	Heat-resistant prismatic glass globe[4]
VGL15R1	IES type I refractor globe[4]
VGL15R3	IES type III refractor globe[4]
VGL15R5	IES type V refractor globe[4]
CUT	Dark sky cut-off reflector with polycarbonate flat lens[4]

Note: For Canadian market, please add "-CA" to the part no. (ex: VGT15-CA).

Guards

Part number	Description
VGU22	Cast guard

[1] For stainless steel inserts, please add "SI" to part no. (ex: VA2SI)
[2] Not compatible with HPM2 crouse-hinds top hats
[3] Some installations may not be compatible
[4] Must be replaced by the same refractor
Note: • For Canadian market, please add "-CA" to the part no. (ex: VA2-CA)
• For gray finish, please add "G" to the part number
For US, ex: VA2G. For Canada, ex: VA2G-CA

HazVertor™ compatiblity

—
01

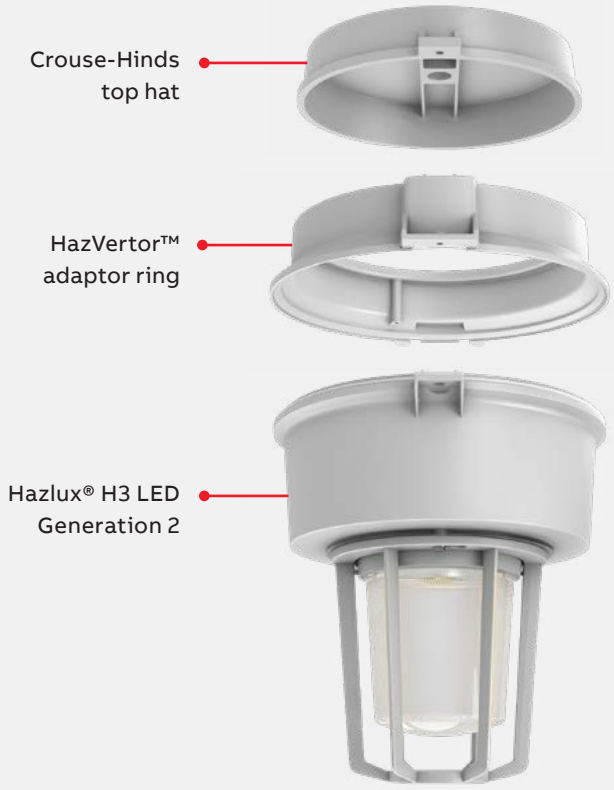
—
02

—
03

—
01 HazVertor™ adaptor ring, model HV3
—
02 HazVertor™ adaptor ring, angle machining, model HV4
—
03 HazVertor™ adaptor ring, wall mount machining, model HV5

The HazVertor™ adaptor ring is designed to let you quickly convert most Crouse-Hinds fixtures to Hazlux® H3 LED Generation 2 fixtures. It is available as an accessory or as an integral component to the Hazlux® H3 LED Generation 2 fixture.

Mounting	Crouse-Hinds model	Crouse-Hinds part number	HazVertor™ model
Pendant	APM2 3/4 in.	APM2	HV3
Ceiling	CM2 3/4 in.	CM2	HV3
	CM3 1 in.	CM3	HV3
Wall	TWM2 3/4 in.	TWM2	HV5
	TWM3 1 in.	TWM3	HV5
Stanchion	JM5 1-1/2 in.	JM5	HV4
	PM5 1-1/2 in.	PM5	HV3
Quad mount	QM25 3/4 in.	QM25	HV3

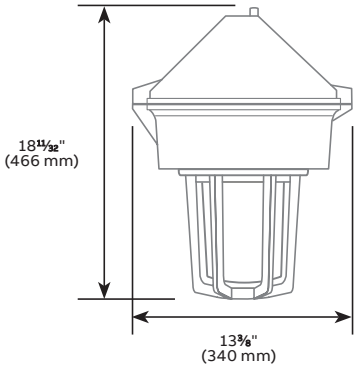


Hazlux® H3 LED Series

DIMENSIONS Dimensions are approximate and subject to change.

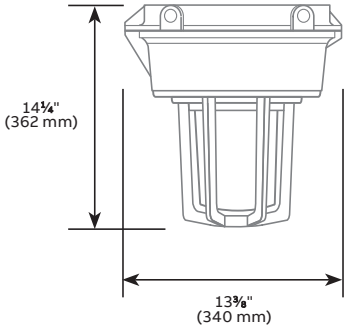
Cone-top pendant

7.3 kg | 16 lbs



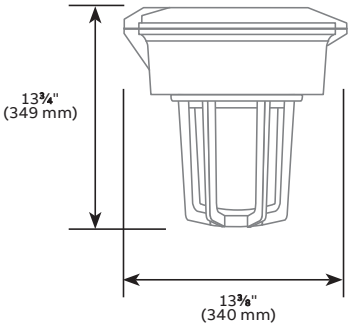
Ceiling and pendant mount

7.3 kg | 16 lbs



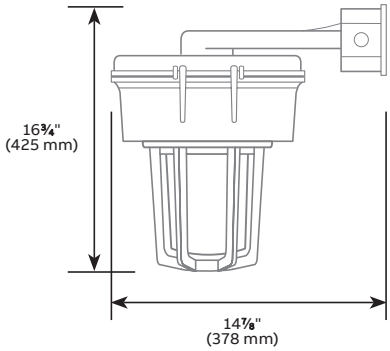
Pendant mount

6.8 kg | 15 lbs



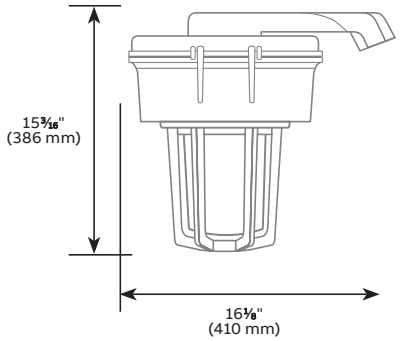
Wall mount

9.1 kg | 20 lbs



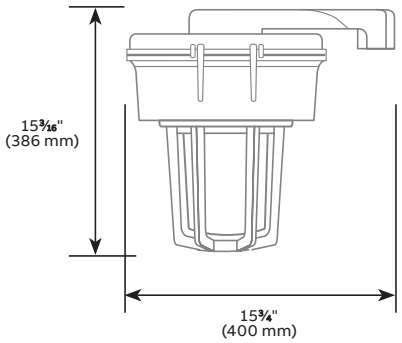
25˚ Angle stanchion

7.3 kg | 16 lbs



Straight stanchion

7.3 kg | 16 lbs



Hazlux® H3 LED Series

NUMBERING SYSTEM

Unipak™ = LED driver tank + optics and mountings + options (if necessary)

1	2	3	4	5	6	7	8	9	10	11	12	13
DL	010	E	UN	0	Blank	TG	C	C2	E	T	I6	U
Fixture series	Lumen output	Driver circuit	Voltage frequency	Housing style	Glass coating	Optic	Guard	Mounting style	Unipak	Finish	Light dist. options	Market

LED driver tank

Part	Part number	Description
1 Fixture series	DL	Hazlux H3 gen 2
2 Lumen output	005	5,600 lumens, 37W
	007	7,500 lumens, 48W
	010	10,500 lumens, 74W
	015	15,800 lumens, 103W
	017	17,300 lumens, 115W
	020	20,100 lumens, 138W
3 Driver circuit	E	Electronic LED driver with dimming 0–10VDC
4 Voltage / Frequency	UN	Universal 120–277VAC 50/60Hz (voltage range includes 208VAC, 220VAC, 240VAC etc.)
	UN2	Universal 347-480VAC 50/60Hz
5 LED driver housing style	0	Standard housing
	S	Standard housing with stainless-steel insert

Optics

Part	Part number	Description
6 Glass coating	Blank	No teflon coating
	S	Teflon coating (TG globe only)
7 Optic	TG	Thermal shock-resistant glass globe
	R1	Type I glass refractor globe
	R3	Type III glass refractor globe
	R5	Type V glass refractor globe
	CUT	Dark sky cut-off polycarbonate flat lens[1]
8 Guard option	Blank	No guard
	C	Cast aluminum guard[2]

[1] CUT optics: 3,000K < CCT for dark sky. Cannot be used with stanchion mount. Not suitable for Class II, Division 1

[2] Cannot be used with CUT

Mounting

Part	Part number	Description
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 / pendant
	C3	1" Ceiling mount / pendant
	HV3	HazVertor™ adaptor ring Crouse-Hinds® ceiling, pendant[2] and straight stanchion top hats[1]
	HV4	HazVertor™ adaptor ring stanchion angle mount[1]
	HV5	HazVertor™ adaptor ring wall mount[1]
	L4	1¼" Straight stanchion
	L5	1½" Straight stanchion
	P2	¾" Rigid pendant
	S4	1¼" 25° Angle stanchion
	S5	1½" 25° Angle stanchion
	Blank	No mounting (to replace existing fixt.)
10 Unipak	E	Standard, Unipak with LED lamp

[1] HV3, HV4 and HV5 HazVertors™ are CSA/CSAus certified

Options

Part	Part number	Description
11 Finish	Blank	Ivory
	G	Gray
	T	Hazcote® black custom anti-corrosion coating (consult ABB rep)[1]
12 Light distribution options	I3	Internal reflector 35° beam angle[2]
	I4	Internal reflector 45° beam angle[2]
	I6	Internal reflector 65° beam angle[2]
	Blank	5,000K
	K30	3,000K[1]
	K35	3,500K[1]
	K40	4,000K[1]
13 Market	U	U.S market
	Blank	Canadian market

[1] Option subject to extended lead time.

[2] DL005, DL007 and DL010 only, maximum 40°C (104°F) ambient temperature, cannot be combined with refractors and CUT. Cannot be added in the field.