



NHL-HDCVT1

L70
25°C **187,000 Hours**

Hazardous Location 12" Linear LED Die Cast

The NHL-HDCVT1 Class 1, Division 2 Hazardous Location series wall and ceiling mount luminaire is available with clear or LumaLens lenses, and open, vertical half or horizontal half door frames designed to replace HID lighting systems from 70w to 175w MH or HPS. Typical lighting applications include industrial facilities, oil, gas, painting facilities, and auto service facilities. Mounting heights of 8 to 18 feet can be used based on light level and uniformity requirements.

Specifications and Features:

Housing:

Heavy-Duty Die Cast Aluminum Housing and Top Frame, with 1/2" Tapped Coin Plug Openings for Wiring Entrance Conduits.

Listing & Ratings:

ETL Listed for Hazardous Locations Per UL844 as Follows:
Class 1, Division 2 Groups A, B, C, D; T4 Temperature Rating
Suitable for Wet Locations, IP66 Sealed LED Compartment

Finish:

Platinum Powdercoat Finish Over a Chromate Conversion Coating.

Lens:

Clear Polycarbonate or SoftLED LumaLens Opal Polycarbonate Vandal-Resistant Lens

Mounting Options:

Mount with Stainless Steel Adjustable Bracket or Yoke. Rated for 6 #12 AWG 90°C for Through Wiring.

Wattage:

22w: Array: 22w, System: 26.4w; (70w HID Equivalent)
37w: Array: 37.2w, System: 43.4w; (175w HID Equivalent)

Driver:

Electronic Driver, 120-277V, 50/60Hz; Less Than 20% THD and PF>0.90. Standard Internal Surge Protection is 2kV for 22w, 6kV for 37w. 0-10V Dimming Standard for a Dimming Range of 100% to 10%; Dimming Source Current is 150 Microamps.

Warranty:

5-Year Warranty for -25°C to +40°C Environment.

See Page 3 for Projected Lumen Maintenance Table.



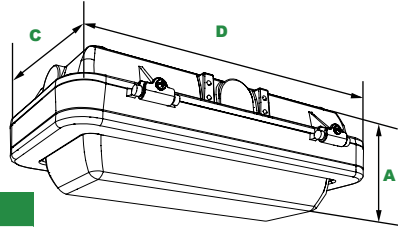
NHL-HDCVT1-H



NHL-HDCVT1-V



NHL-HDCVT1-O



Dimensions

Width (D)	12 1/4" (309mm)
Length (C)	7" (178mm)
Height (A)	NHL-HDCVT1-O: 4" (102mm) NHL-HDCVT1-(H or V): 4 1/4" (107mm)

Order Information Example:

NHL-HDCVT1-H-F-37W-50K-UNV-C-P

Model	F	Wattage	CCT	U	Lens	P
NHL-HDCVT1-O= Open Frame 12" Linear LED Die Cast NHL-HDCVT1-H= Horizontal Hood 12" Linear LED Die Cast NHL-HDCVT1-V= Vertical Hood 12" Linear LED Die Cast	F=Wide	22W=22w 37W=37w	40K=4000K 50K=5000K	UNV=120-277V	C=Clear Polycarbonate Vandal-Resistant Lens L=SoftLED LumaLens Opal Polycarbonate Vandal-Resistant Lens	P=Platinum

Project Information:

Project Name: _____ Fixture Type: _____
 Complete Catalog #: _____ Date: _____
 Comments: _____

Certification & Listings:



Class 1, Division 2
Groups A, B, C, D
T4 Temperature Rating



SoftLED

Specifications subject to change without notice. Rev. 112618



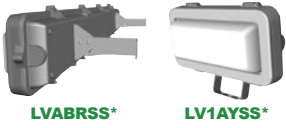
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Accessories & Replacement Parts:



Mounting Accessories (Order Separately, Field Installed)

LVABRSS Stainless Steel Adjustable Bracket, Set of Two

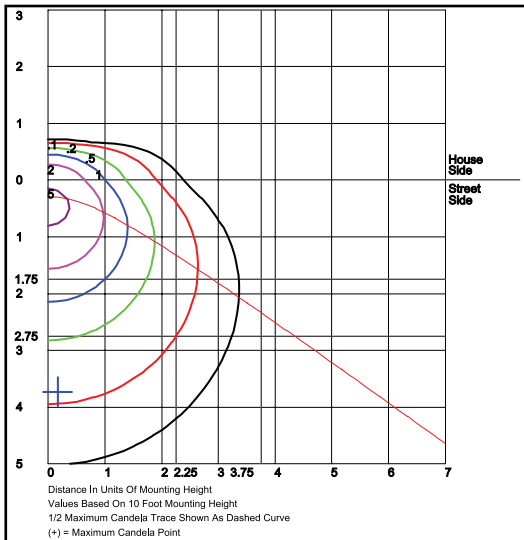
LV1AYSS Stainless Steel Yokes for HLV1A, Includes Hardware.

Replacement Parts (Order Separately, Field Installed)

LV1ALL SoftLED LumaLens Opal Polycarbonate Vandal-Resistant Lens

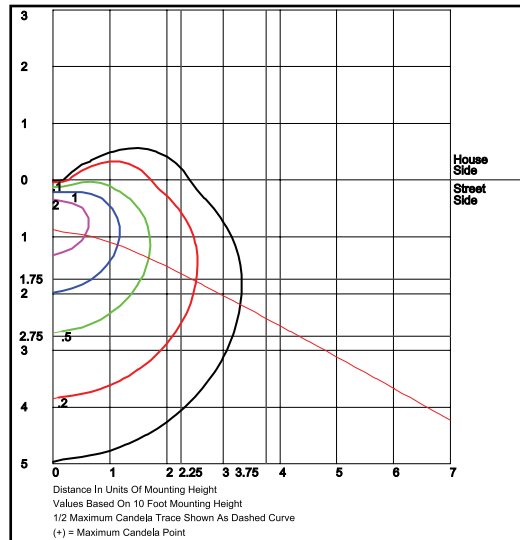
*Shown Mounted

Photometric Data for Wall Light Applications



NHL-HDCVT1-H-F-37W-50K-UNV-L
LumaLens

Grid in MH
MH=10 Feet



NHL-HDCVT1-V-F-37W-50K-UNV-L
LumaLens

Grid in MH
MH=10 Feet

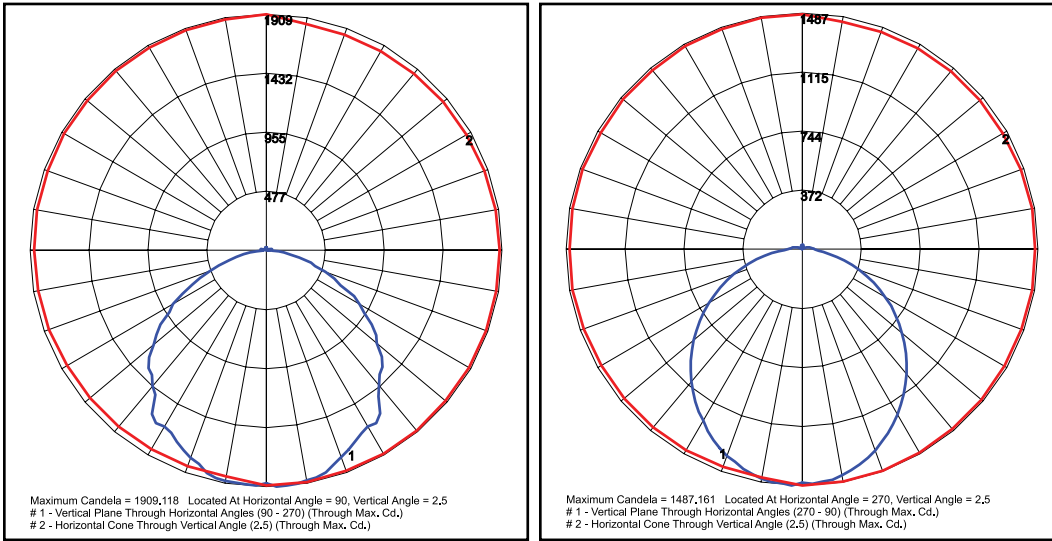
Photometric Performance for Wall Light Applications

LED Board Watts	Drive Current (mA)	Input Watts	Optics	5000 CCT 80 CRI					4000 CCT 80 CRI				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
22w (Clear Lens)	116	26	Horizontal Frame -Type III	3,126	120	1	2	1	3,001	115	1	2	1
22w (LumaLens)			Horizontal Frame -Type IV	2,369	91	1	3	2	2,274	88	1	3	1
22w (Clear Lens)			Vertical Frame -Type III	3,305	127	1	2	1	3,172	122	1	2	1
22w (LumaLens)			Vertical Frame -Type III	2,705	104	1	3	1	2,597	100	1	3	1
37w (Clear Lens)		43	Horizontal Frame -Type III	4,879	114	2	3	2	4,684	109	2	3	2
37w (LumaLens)			Horizontal Frame -Type IV	4,071	95	1	3	2	3,908	91	1	3	2
37w (Clear Lens)			Vertical Frame -Type II	5,292	123	2	3	1	5,081	118	2	3	1
37w (LumaLens)			Vertical Frame -Type II	4,399	102	2	3	2	4,223	98	1	3	2

Specifications subject to change without notice. Rev. 071618



Photometric Data for Canopy/Ceiling Light Applications



NHL-HDCVT1-O-F-37W-50K-UNV-C
Clear Lens

NHL-HDCVT1-O-F-37W-50K-UNV-L
LumaLens

Photometric Performance for Canopy/Ceiling Light Applications

LED Board Watts	Drive Current (mA)	Input Watts	Optics	Spacing Criteria	5000 CCT 80 CRI		4000 CCT 80 CRI	
					Lumens	LPW	Lumens	LPW
22w (Clear Lens)	116	26	Open Frame (110° x 110°)	1.34	3,332	128	3,199	123
22w (LumaLens)			Open Frame (110° x 120°)	1.26	2,945	113	2,828	109
37w (Clear Lens)		43	Open Frame (110° x 110°)	1.26	5,538	129	5,316	124
37w (LumaLens)			Open Frame (110° x 120°)	1.26	4,948	115	4,750	111

Projected Lumen Maintenance

Data shown for 5000 CCT			Compare to MH			
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@ 25°C
L70 Lumen Maintenance @ 25°C / 77°F	26	1.00	0.96	0.92	0.84	187,000
L70 Lumen Maintenance @ 25°C / 77°F	43	1.00	0.96	0.92	0.84	187,000
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L80@ 40°C
L80 Lumen Maintenance @ 40°C / 104°F	26	1.00	0.95	0.89	0.79	94,000
L80 Lumen Maintenance @ 40°C / 104°F	43	1.00	0.94	0.88	0.79	84,000

NOTES:

- Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 116mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.
- Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.

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