HV LED

Project Name:	
Type:	

APPLICATION

Enclosed and gasket LED Hi-Bay is appropriate for damp and wet locations as well as for protection against dust and other non-hazardous contaminants. It is often used in food industry, cold storage, warehouses, parking garages, commercial kitchens, car washing, utility tunnels, laundries and industrial facilities.

FEATURES:

- Vaportite fixture that features fiber glass housing with white powder coated iron gear tray, hinge at both side with tool less stainless steel latch for easy of accessibility and maintenance.
- One piece impact resistant Acrylic, frosted ends and side linear prism diffuser.
- Stainless steel latches as standard.
- Fixtures provided with black end plug, 7/8” housing end holes (2) - Snaps and locks tight to maintain tight seal of unused end holes.
- 86% minimum average reflective white power coated high gloss white reflectors or specular aluminum reflector.
- Housing utilizes off the shelf 1/2” fittings.
- Poured in place gasket helps seal the enclosures form most hostile environments.
- Optional Tamper resistance available.

MOUNTING:

- Compatible with chain, cable, dual pendant mount (by others)

LED:

- Color Temperature: 3000/3500/4000/5000 (K).
- LED Module: High efficency up to 173 LPW.
- Calculated L70: 122,000 hours
- Reported L70: >54,000 hours
- Poke in wire connectors.
- Color variation within 3 MacAdam steps.
- LM80

ELECTRICAL:

- High power factor electronic driver, operate from a 120~277 Vac input range, 50 / 60 Hz.
- Philips Xitanium: 0-10V Dim to 1%(PH).
- Universal Lighting Everline : 0-10V Dim to 1%(ULT)
- Osram Optotronic: 0-10V Dim to 1%(OS1) or 10%(OS).
- Generic: 0-10V Dim to 10%(GR).
- Power Factor: +0.9
- Efficiency: +85%
- Ambient Operating Temperature:
  -4°F (-20°C) ~ 122°F (50°C) (Std.).
  -40°F (-40°C) ~ 122°F (50°C) (with LT option)
  -31°F (-35°C) ~ 140°F (60°C) (with HT option)
- Constant Current, Class 2

- <ELCU-200>
- Guarantees emergency lighting remains ON or is turned on when power to the control device is lost.
- Interfaces with fire alarm panel or security system.
- “Watchdog” feature allows emergency loads to be controlled in tandem with normal power loads.
- UL listed for use in emergency circuits.

LISTING:

- UL/CUL listed and labeled.
- Listed to UL 1598 and UL 8750.
- NSF International certified.
- NEMA 4X certified.
- Suitable for damp and wet locations.
- CEC Compliant EM
  (please contact for more information)
- Assembled in USA.
- ARRA and BAA compliant.
- IP 67 rated.
- 5 years limited warranty.
- 7 or 10 years limited warranty. (optional) [4]
- Bluetooth Mesh System available, please contact factory for more information.

CONFIGURATIONS

	LED Watts	AC Input	Lumen Output	Lumen Efficiency
2FT	18LED	18W	2093 lm	116.3 lm/W
	27LED	27W	3140 lm	
	36LED	36W	4187 lm	
	54LED	54W	6280 lm	
	66LED	66W	7676 lm	
	72LED	72W	8374 lm	
	80LED	80W	9304 lm	
4FT	66LED	66W	9268 lm	140 lm/W
	72LED	72W	9923 lm	137.8 lm/W
	80LED	80W	10796 lm	134.5 lm/W
	107LED	107W	13744 lm	128 lm/W
	134LED	134W	16692 lm	124.5 lm/W
	162LED	162W	19748 lm	121.9 lm/W
	194LED	194W	23242 lm	119.8 lm/W
	225LED	225W	26627 lm	118 lm/W
	250LED	250W	29584 lm	118 lm/W
	290LED	290W	34318 lm	118 lm/W

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ORDERING INFORMATION

EXAMPLE: *HV-4-66LED-50K-HE-UNV-GR-VH*

MODEL	LENGTH		LED		COLOR TEMP.		EFFICACY		VOLTAGE		DIFFUSER TYPE	
HV-2G	2	2' Length	18LED	18W LED	-30K	3000K	HE	High Efficacy (Std.) 10%	UNV	120-277V	(Blank)	Clear impact resistant acrylic with frosted ends
			27LED	27W LED	-35K	3500K			120	120V	PL	Clear Polycarbonate with frosted ends
			36LED	36W LED	-40K	4000K			277	277V	FT	Frosted impact resistant acrylic
			54LED	54W LED	-50K	5000K (Std.)			347	347V		
			66LED	66W LED					480	480V		
			72LED	72W LED [1]								
			80LED	80W LED								
	4	4' Length	66LED	66W LED								
			72LED	72W LED [1]								
			80LED	80W LED								
			107LED	107W LED								
			134LED	134W LED								
			162LED	162W LED								
			194LED	194W LED								
			225LED	225W LED								
			250LED	250W LED								
			290LED	290W LED								

* Contact factory for custom wattage or lumen requirement.

LED DRIVER		MOUNTING		CONTROLS	
GR	Generic, 0-10V 10% dim (Std.) [5]	VH	316 Stainless Steel V-Hook (Std.)	(Blank)	No sensor
PH	Philips Xitanium, 0-10V 1% dim [5]	CM	316 Stainless Steel Ceiling Mount	MS	Occupancy Sensor (Wet location)
ULT	Universal Everline 0-10V 1% dim [5]	RGD	Rigid Pendant Mount	RS-LRD	Remote programmer for LRD-509S and LRS-509S
OS	Osram Optotronic, 0-10V 10% dim [5]	ACxx	Highbay Aircraft Cable Y-Hook (Pair) Specify Cable Length: 60 inches, 120 inches	LOS-502S-x	Fixture external mount PIR occupancy sensor, no dimming support, 120/277V with DIP switch setting, Fail on
OS1	Osram Optotronic, 0-10V 1% dim [5]		* Contact factory for more sensor options.	LRD-509S-x	Fixture external mount 0-10V SmartDIM or multi-level high/low dim control occupancy sensor, Fail on (*IR remote programmable)
SD40	40% / 100% Bi-Level Step dim (PH only)			LRS-509S-x	Fixture external mount Occupancy sensor control on/off daylight feature designed for all-purposes energy efficient lighting control, 120-277V, Fail on (*IR remote programmable)
SDXX	XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%) (PH only)			HC403	Hytronik Daylight Harvesting Occupancy Sensor, adjustable via DIP switch
TD30/70	30% / 70% / 100% Tri-Level Step dim (PH only)			HRC-05	Remote control for HC403 sensor
TDXX/YY	XX% / YY% / 100% Tri-Level Step dim (Specify XX, YY : 10% ~ 70%) (PH only)			IMS	Integrated Occupancy Sensor (up to 20ft mounting height)
ES566	eldo SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim				
EC	eldoLED ECOdrive 0-10V natural dim to 1% (Hybrid HydraDrive)				
LDE1	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim				
BLT	Bluetooth Mesh System (contact factory for more information)				

OPTIONS			
EMG8	1296 LUMEN EM Battery Backup (CEC Compliant EM) [2,3]	TR	Tamper-Proof Latch
EMG15	2430 LUMEN EM Battery Backup (CEC Compliant EM) [2,3]	TRDT	Tamper-Proof Driver Tool
EMG20	3240 LUMEN EM Battery Backup (CEC Compliant EM) [2,3]	CS16/3	# 16/3 STW Cord and Plug set (Length and Plug NEMA type : consult with factory)
CWEM8	Cold Weather 8W EM (-20°C to 55°C)	O7W	Optional 7 Years Limited Warranty [4]
CWEM13	Cold Weather 13W EM (-20°C to 55°C)	O10W	Optional 10 Years Limited Warranty [4]
CWEM20	Cold Weather 20W EM (-20°C to 55°C)	LT	Low Temperature for freezer (-40°F (-40°C) ~ 122°F (50°C))
ELCU-200	Fail-to-on Emergency lighting, UL924 [6]	HT	High Temperature (-31°F (-35°C) ~ 140°F (60°C))
GTD	Bodine Generator Transfer Device	AMB	Anti-Microbial Coating (Matte Skye White)
GTD10DIM	Bodine Generator Transfer Device (0-10VDC Dimmer Override)	HC403	Microwave bi-level Occupancy Sensor, adjustable via DIP switch [7]
AB	AB Switch		
MR4	MIRO4 Reflector (Gear Tray Reflector)		
F1	Single Fuse for 120/277/347V [3]		
F2	Double Fuse for 208/240/480V [3]		

NOTES:
1. Economic version : 100 lumen / Watt
2. Contact factory for other emergency ballast options.
3. Must specify voltage.
4. This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation. (EM battery backup does not included)
5. To find an approved dimmer switch, please see table 1.
6. Shipped separately.
7. See Table2 to find factory setting.

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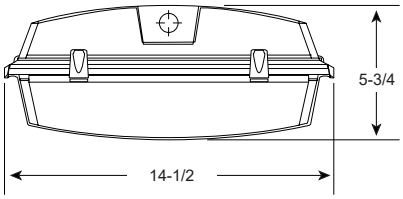

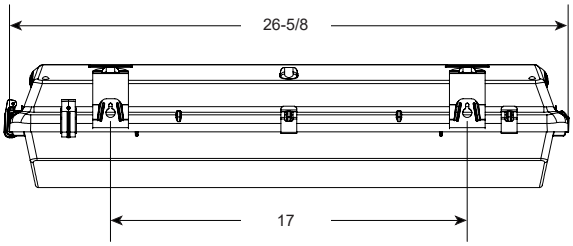

Specifications: HV-4FT
Length: 52-1/8 (1323)
Width: 14-1/2 (368)
Depth: 5-3/4 (146)

All dimensions are inches (millimeters).

Specifications: HV-2FT
Length: 26-5/8 (676)
Width: 14-1/2 (368)
Depth: 5-3/4 (146)

OUTPUT CURRENT

		Bi-Level		Tri-Level (Default)	
SW1	SW2	Config Range	Default	Config Range	Default
Close	Open	10% - 70%	40%	10% - 70%	30%
Open	Close	10% - 70%	40%	10% - 70%	70%
Close	Close	100%	100%	100%	100%
Open	Open	0%	0%	0%	0%

APPROVED DIMMER SWITCH (TABLE 1)

	Manufacturer	Manufacturer Part #
GR	LUTRON	NTSTV-DV
	LEVITON	IP710-DLZ
PH	LUTRON	Nova: NFTV- dimmer plus PP-DV relay pack(s) Nova T: NTSTV-DV-dimmer Diva: DVTV-dimmer, DVSCTV-dimmer, plus PP-DV relay pack(s), DVSTV-dimmer, DVSCSTV-dimmer GRAFIK Eye QS: QSGRJ-XP, plus GRX-TVI 0-10V interface GRAFIK Eye QS with EcoSystem: QSGRJ-XE, QSGR-XE, plus GRX-TVI 0-10V interface PowPak: RMJ-5T
	LEVITON	Leviton: IP710-LFZ
	PHILIPS	Sunrise - SR1200ZTUNV
OS, OS1	OSRAM	ZBHA-CLM DIM (NAED:45678)
	ENCELIUM EMS	EN-LCM-1R10V-GB2-BK, EN-LCM-1R10V-GB2-BK/DR, EN-ALC-1R10V-GB2-BK, EN-ALC-1R10V-GB2-BK-DR
	LEVITON	IP710-DLX
	LUTRON	DVTV-XX
	WATTSTOPPER	ADF-120277
	SYNERGY LIGHTING CONTROLS	ISD BC
	WATTSTOPPER	FD-301
	WATTSTOPPER	FSP-202
	ENLIGHTED INC.	SU-3E-00 (Enlighted Compact Sensor)

* If you want other specific kind, please contact us.

HC403 FACTORY SETTING (TABLE 2)

Detection Area	100%
Hold-time	5 sec
Daylight sensor	Disable
Stand-by period (tri-level control)	10 sec
Stand-by dimming level	10%

* See a separate attachment to find more setting options.

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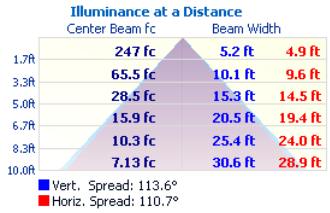
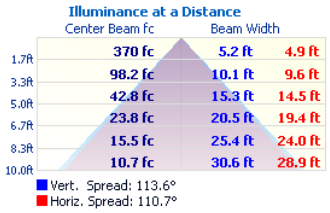
HV-2-18LED



HV-2-27LED



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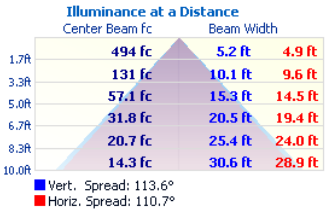

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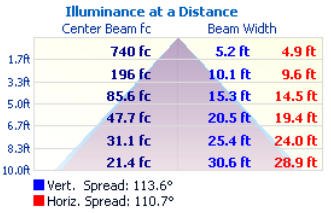

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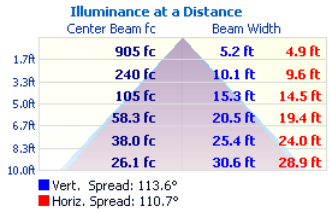

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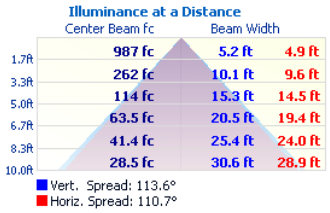

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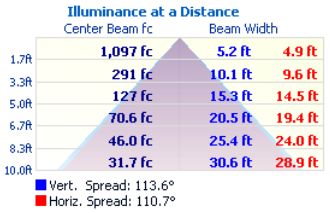

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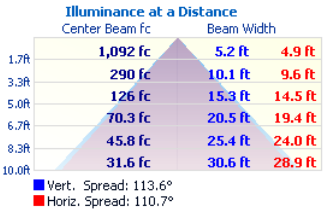
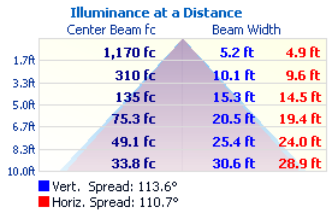
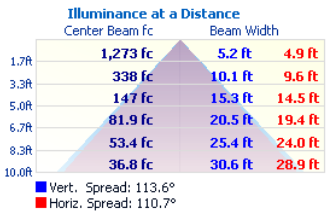


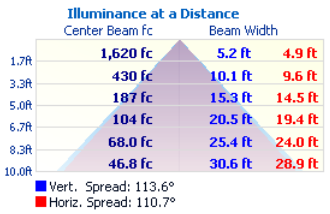
HV-4-72LED



HV-4-80LED



HV-4-107LED



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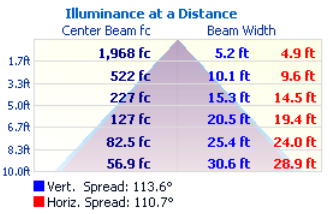

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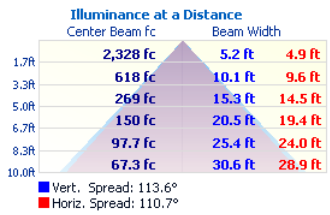

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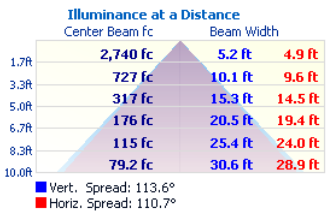

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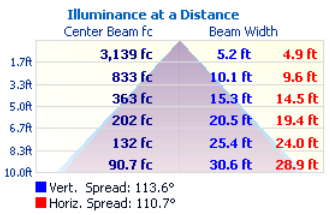

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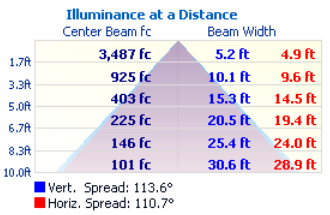
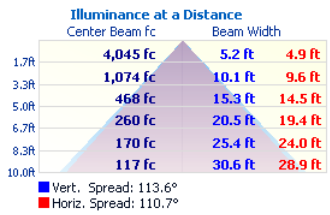


HV-4-290LED



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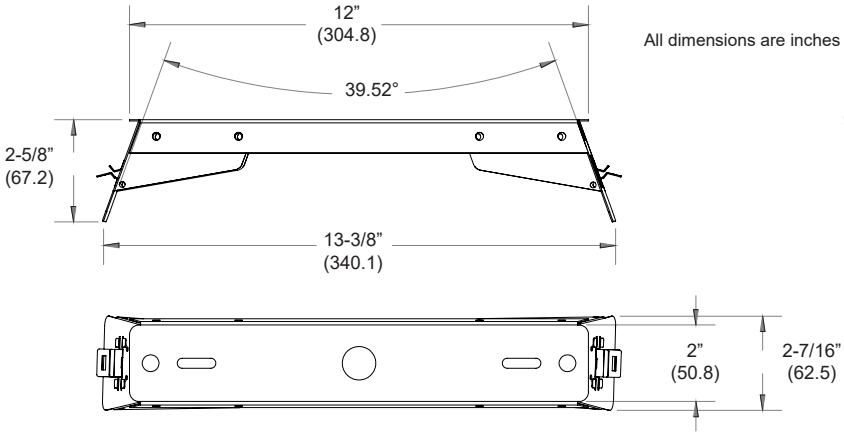
RGD : Rigid Pendant Mount



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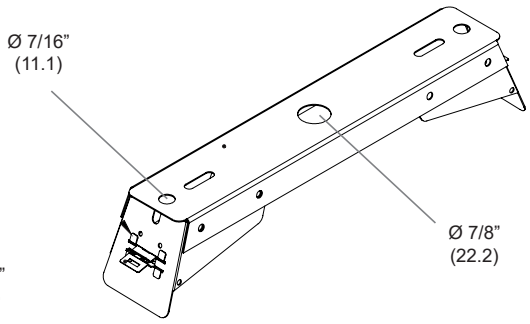

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