Project		**Catalog #**		**Type**	
Prepared by		**Notes**		**Date**	

Decorative (-D) endcap shown

Fail-Safe

HVL | LD4 LED

8", 12" Width
Individual/Continuous
Vandal Resistant Linear LED

Typical Applications

Vandal Resistant • Healthcare • Education • Corridors • Public Restrooms • Dormitories • Transit Stations • Common Areas

Interactive Menu

- Order Information page 2
- Connectors and Accessories page 3
- Nominal Input Watts/Delivered Lumens page 4
- Product Warranty

Product Certification

CERTIFIED SAFETY • DLC • NSF • IP64 • BAA

Product Features

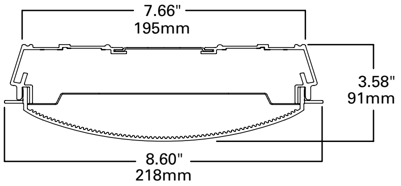
wet location

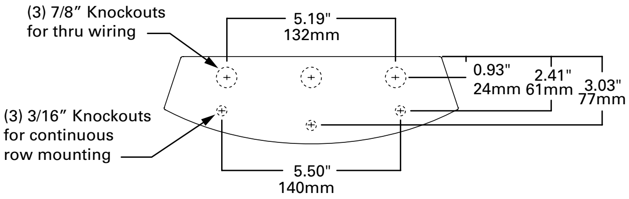
Top Product Features

- Aesthetically styled vandal resistant surface- or pendant-mount; Decorative end caps
- Individual or continuous runs for design flexibility; Pendants available
- Heavy duty extruded aluminum side rails for added protection; Die-Cast end caps
- Clear linear ribbed polycarbonate lens obscures lamp image, prisms inward; Opal optional
- 3000K, 3500K, 4000K and 5000K CCT; 80 CRI minimum
- Options to meet Buy American Act requirements

Dimensional and Mounting Details

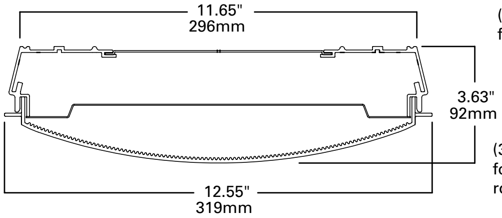
HVL8

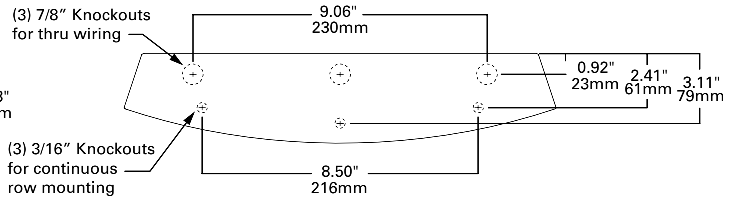

7.66"
195mm
3.58"
91mm
8.60"
218mm


(3) 7/8" Knockouts
for thru wiring
5.19"
132mm
0.93"
24mm
2.41"
61mm
3.03"
77mm
(3) 3/16" Knockouts
for continuous
row mounting
5.50"
140mm

HVL8 FLAT END CAP DETAIL

HVL12


11.65"
296mm
3.63"
92mm
12.55"
319mm


(3) 7/8" Knockouts
for thru wiring
9.06"
230mm
0.92"
23mm
2.41"
61mm
3.11"
79mm
(3) 3/16" Knockouts
for continuous
row mounting
8.50"
216mm

HVL12 FLAT END CAP DETAIL

Overall Length Dimensions

	Overall Length	
	Smooth End Caps	Decorative End Caps
1'	13.80"	15.6"
2'	25.20"	27.0"
4'	47.10"	48.9"
8'	94.17"	95.97"

COOPER Lighting Solutions

Order Information

SAMPLE ORDER NUMBER: **INDIVIDUAL: HVL8-4-LD4-2HI-40-UNV-O-EDD1-D**
CONTINUOUS: HVL12-BR-8-LD4-2LO-40-UNV-O-EDC1-D

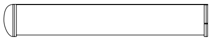
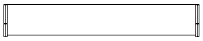
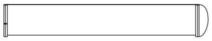
Domestic Preferences	Product Family	Row/Node Configuration	Length	LED Type	No. of LEDs	Illumination Level	Color Temperature	Voltage
Domestic Preferences (10)	**Product Family**	**Row/Node Configuration**	**Length**	**LED Type**	**No. of LEDs**	**Illumination Level**	**Color Temperature**	**Voltage**
[Blank]=Standard **BAA**=Buy American Act	**HVL8**=8" Harmony VR Linear **HVL12**=12" Harmony VR Linear	**Individual** Leave blank **Continuous Run** **BR**=Beginning of run **MR**=Middle of run (5) **ER**=End of run	**1**=1' Length (single circuit only) **2**=2' Length **4**=4' Length **8**=8' Length	**LD4**=LED Version 4.0	**1**=(1) LED Module in Cross-section **2**=(2) LED Modules in Cross-section **3**=(3) LED Modules in Cross-section	**STD**=Standard **LO**=Low **HI**=High	**30**=3000 Kelvin **35**=3500 Kelvin **40**=4000 Kelvin **50**=5000 Kelvin	**UNV**=120V-277V **347**=347V (Emergencies not available)
Notes (10) Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.		**Notes** (5) For MR (middle of run) luminaires, do not specify end cap style. Defaults to flat.						

Lens Type	Driver	No.of Circuits	End Caps	Options	Finish	Accessories
Lens Type	**Driver**	**No.of Circuits**	**End Caps**	**Options**	**Finish**	**Accessories (Order Separately) (11)**
O=Opal Polycarbonate, (ribbed inside) **C**=Clear Polycarbonate, (ribbed inside)	**EDC**=Electronic Driver, Non-Dimming **EDD**=Electronic Driver, 0-10V Dimming, 10% **ED1D**=Electronic Driver, 0-10V Dimming, 1% **5LTD**=Fifth Light Dali Driver (10%-100% dimming) (9)	**1**=1 Circuit **2**=2 Circuits **3**=3 Circuits **4**=4 Circuits	**D**=Decorative, End Caps, Sculpted **S**=Smooth End Caps, Flat	**PM**=Pendant Mount (Damp location rated only) (1) **NSF**=Certified NSF Rating for Food Industry (not available with IP64 option) **TILW**=Tandem In-Line Wiring (8' fixture only) **PI1BLK-6PP-WG=**Single circuit harness, hot conductor black and white neutral connected to driver(s), with ground (3), (4) **PI2BLK-6PP-WG**=Dual circuit harness, hot black conductor and white neutral connected to driver(s), with ground (3), (4) **PI2BLU-6PP-WG**=Dual circuit harness, hot blue conductor and white neutral connected to driver(s), with ground (3), (4) **IB/OB**=Inboard/outboard wiring (only necessary for 8T) **OS1**=Integrated Motion/Occupancy Sensor (within lens) connected to 1 LED module. Specify 120v or 277v only. (2), (7) **OS2**=Integrated Motion/Occupancy Sensor (within lens) connected to 2 LED modules. Specify 120v or 277v only. (2), (7) **EL7W**=7W Emergency Battery Pack. (347V emergency not available) (6), (8) **EL10W**=10W Emergency Battery Pack, (347V emergency not available) (6), (8) **EL14W**=14W Emergency Battery Pack, (347V emergency not available) (6), (8) **IP64**=IP64 compliant (water: 2.6 GPM, 11.6 PSI minimum, spray all directions, 20 minutes. Dust: no internal accumulation, 20 minutes in dust chamber). IP64 not available with PM option. (not available with NSF option). **NAT**=Natatorium Finish, Aluminum Components, Stainless Steel Hardware **90**=90CRI	**[Blank]**=Architectural White **BK**=Architectural Black **DP**=Dark Platinum	**VRSD**=T20 Center Pin Tamperproof TORX®-head bit **SCF-XX-B**=Fixed Stem Set XX= Length (6, 8, 12, 24, 36, 48, 60, 72), One set consists of one stem assembly. Minimum of two sets required per fixture.
	Notes (9) Available in 4' or 8' lengths, and 2' length minimum 2 rows leds.			**Notes** (1) Stems (see accessories) must be ordered separately. Damp location only. IP64 not available with PM option (not available in 1' length). (2) Two module cross-section max with OS option. Specify 120v or 277v in ordering logic. (3) Consult factory for additional configurations. (4) Black conductor connected to outboard lamp - default at factory with inboard/outboard wiring. (6) Consult factory for manufacturer/catalog number of EM pack. Not available in 1 ft. or 2 ft. length. (7) The FM105 occupancy sensor operates at 5.8GHz which may interfere with wireless network signals if they are operating on that same frequency. (8) HVL8 3HI option not available with emergency battery pack.		**Notes** (11) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

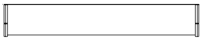
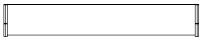
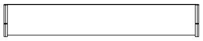
Ordering Information Example: (3) 8' Fixtures, 24' Run

Decorative End Caps
Beginning: (1) H V L 8 -BR-8-LD4-2STD-40- UNV-O-EDC1-D Middle: (1) H V L 8 -MR-8-LD4-2STD-40-UNV-O-EDC1 End: (1) H V L 8 -ER-8-LD4-2STD-40-UNV-O-EDC1-D
Flat (Smooth) End Caps
Beginning: (1) H V L 8 -BR-8-LD4-2STD-40- UNV-O-EDC1-S Middle: (1) H V L 8 -MR-8-LD4-2STD-40-UNV-O-EDC1 End: (1) H V L 8 -ER-8-LD4-2STD-40-UNV-O-EDC1-S

Decorative End Caps - Continuous Run (-D)

BR (Beginning Run)	MR (Middle Run)	ER (End Run)
 Decorative endcaps on left, flat endcap on right, to attach to MR fixture.	 Flat endcaps on both ends, by default.	 Decorative endcaps on right, flat endcap on left, to attach to MR fixture.

Flat (Smooth) End Caps - Continuous Run (-S)

BR (Beginning Run)	MR (Middle Run)	ER (End Run)
 Flat endcaps on both ends to attach to MR fixture.	 Flat endcaps on both ends, by default.	 Flat endcaps on both ends to attach to MR fixture.

Corner Mount Bracket Accessories

8” CORNER MOUNT BRACKET [1]
HVL8-2LEDCM=8”, 2Ft. LED Corner Mount
HVL8-4LEDCM=8”, 4Ft. LED Corner Mount
12” CORNER MOUNT BRACKET [1]
HVL12-2LEDCM=12”, 2Ft. LED Corner Mount
HVL12-4LEDCM=12”, 4Ft. LED Corner Mount

Note: (1) Requires 90-degree offset 1/4” driver and VRSB bit for installation.

PENDANT MOUNT: Suspension Sets - Stem Sets
XX=Length (6, 8, 12, 24, 36, 48, 60, 72)
SCF-XX-B=Fixed Stem Set
Used with all surface fixtures as stem sets. One set consists of one stem assembly. Minimum of two sets required per fixture. Not rated WL under covered ceiling.

Note: Coupler, 3/8” IPS Pipe Coupler to join lengths. Coupler is standard baked white enamel or special order of black. Must specify pedant mount (PM) option on luminaire.

Product Specifications

Application

- Vandal resistant luminaire suitable for use complex environments for protection from vandalism including:
  - Schools
  - Dormitories
  - Hospitals
  - Public restrooms
  - Common areas
  - Corridors
  - Transit stations

Housing

- Heavy duty extruded aluminum rails
- Electrostatically applied, Matte White powder coat finish
- Black and Dark Platinum available
- Custom colors available (supply RAL number, paint chips, or paint manufacturer catalog number)

End Caps

- One piece, die-cast aluminum
- Flat or sculpted decorative styles
- Flat end caps have 3 knockouts (7/8") for thru-wiring and 3 knockouts (1/4") to attach/secure fixture and ensure ultra-straight rows for continuous run applications

Fasteners

- Stainless steel tamper-resistant T20 TORX® screws with center pin reject standard
- Allen head set screws provided
- Screws are mounted along the fixture side, concealed by polycarbonate lens

Lens

- One-piece extruded UV stabilized polycarbonate
- Unique linear ribbed design provides uniform light distribution while obscuring lamp image and direct glare
- Internal ribs reduce dirt build-up and facilitates cleaning
- Nominal thickness 0.135"

Reflector

- Heavy gauge steel construction
- Serves as a wireway cover and driver tray
- Electrostatically applied, Gloss White power coat finish

LEDs

- Available in 3000K, 3500K, 4000K and 5000K; 80 CRI minimum

Electrical

- Electronic driver 120-277V, dimming driver standard
- 0-10V dimming down to 1% or 10%
- Non-dimming available

Compliances

- cULus listed for wet locations under covered ceiling standard.
- IP64 rating available
- Optional NSF2 listed (non-food, splash zone)
- DesignLight Consortium qualified and DCL classified standard (refer to www.designlight.org for details)

Warranty

- Five year limited warranty on LEDs and Electrical, consult website for details. www.cooperlighting.com/legal

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Nominal Input Watts/Nominal Delivered Lumens

View IES files

HVL8				Clear Lens		Opal Lens	
Length	No of Modules	Illumination Level	Input Watts	Delivered Lumens	LPW	Delivered Lumens	LPW
1	1	LO	5.8	720	124	652	112
	1	STD	8.2	928	113	840	102
	1	HI	10.7	1194	112	1081	101
	2	LO	11.5	1368	119	1239	108
	2	STD	16.3	1762	108	1596	98
	2	HI	21.5	2268	105	2054	96
	3	LO	16.8	2158	128	1954	116
	3	STD	23.9	2779	116	2517	105
	3	HI	31.5	3577	114	3239	103
2	1	LO	11.5	1441	125	1096	95
	1	STD	16.3	1856	114	1412	87
	1	HI	21.5	2389	111	1817	85
	2	LO	23.1	2736	118	2082	90
	2	STD	32.7	3525	108	2682	82
	2	HI	43.1	4536	105	3451	80
	3	LO	33.7	4315	128	3283	97
	3	STD	47.8	5559	116	4229	89
	3	HI	63	7153	114	5442	86
4	1	LO	23	2882	125	2192	95
	1	STD	32.6	3712	114	2824	87
	1	HI	43	4777	111	3634	85
	2	LO	46.1	5473	119	4164	90
	2	STD	65.4	7050	108	5363	82
	2	HI	86.1	9072	105	6902	80
	3	LO	67.4	8630	128	6566	97
	3	STD	95.5	11117	116	8458	89
	3	HI	125.9	14307	114	10885	87
8	1	LO	46	4843	105	4385	95
	1	STD	65.2	6238	96	5648	87
	1	HI	86	8028	93	7269	85
	2	LO	92.2	9197	100	8327	90
	2	STD	130.7	11847	91	10727	82
	2	HI	172.3	15245	89	13804	80
	3	LO	134.8	14503	108	13132	97
	3	STD	191	18682	98	16916	89
	3	HI	251.8	24042	96	21769	87

* Nominal input wattage values include LED voltage, drive current, and typical driver efficiency. Refer to LM79 data/photometric files for exact delivered lumen and input wattage values. Values in table are nominal values only.

Nominal Input Watts/Nominal Delivered Lumens

View IES files

HVL12				Clear Lens		Opal Lens	
Length	No of Modules	Illumination Level	Input Watts	Delivered Lumens	LPW	Delivered Lumens	LPW
1	2	LO	11.8	1428	121	1293	110
	2	STD	16.8	1840	110	1666	99
	2	HI	22.1	2368	107	2144	97
	3	LO	17.3	2253	130	2040	118
	3	STD	24.5	2902	118	2627	107
	3	HI	32.3	3734	116	3381	105
2	2	LO	23.7	2857	121	2174	92
	2	STD	33.6	3680	110	2800	83
	2	HI	44.2	4736	107	3603	82
	3	LO	34.6	4505	130	3428	99
	3	STD	49.1	5804	118	4415	90
	3	HI	64.7	7468	115	5682	88
4	2	LO	47.4	5714	121	4347	92
	2	STD	67.1	7360	110	5600	84
	2	HI	88.5	9472	107	7206	81
	3	LO	69.2	9011	130	6855	99
	3	STD	98.1	11607	118	8831	90
	3	HI	129.3	14937	116	11364	88
8	2	LO	94.7	9602	101	8694	92
	2	STD	134.3	12368	92	11199	83
	2	HI	176.9	15917	90	14412	82
	3	LO	138.4	15142	109	13711	99
	3	STD	196.2	19505	99	17661	90
	3	HI	258.6	25101	97	22728	88

* Nominal input wattage values include LED voltage, drive current, and typical driver efficiency. Refer to LM79 data/photometric files for exact delivered lumen and input wattage values. Values in table are nominal values only.

Energy Data

For Energy Management related technical data to support the performance of this fixture series, refer to the ordering information for input wattage.

Ratings

cULus listed
Wet Location rated - standard
IP64 - available
NSF - available
NAT - available

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Specifications and dimensions
subject to change without notice.