VR8 LED

Project Name:	
Type:	

APPLICATION

The heavy-duty turret industrial channel is a strip with reflectors to focus the majority or all of the illumination downward. The series incorporate sturdy reflectors that precisely direct and effectively control light. It is a durable, efficient solution for both task and general lighting needs. Its functionality and economy make it an ideal choice for large storage areas, institutions, industrial and retail applications.

FEATURES:

- Heavy-duty design for demanding industrial environments.
- Die-formed CRS housing with rolled symmetric reflector and driver cover.
- Die-formed steel reflectors, painted white.
- Knock-outs for versatile configuration and simple mounting.
- Easily assembled with snap together components and no extra tools required.
- Acrylic diffuser.
- Finish in highly reflective post painted finish.
- Optional wire guards with snap-on clips available.
- Paint after fabrication.

MOUNTING:

- For surface, pendant, chain, swivel stem, unit or row installation.
- For mounting heights up to 25' that require high light levels.

LED:

- High quality array LEDs.
- Color Temperature: 3000/3500/4000/5000 (K)
- Color Rendering Index: > 82.8 (optional >90).
- Calculated L70: 122,000 hours
- Reported L70: +60,000 hours

ELECTRICAL:

- High power factor electronic driver, operate from a 120 ~ 277 Vac input range, 50 / 60 Hz.
- Features included over voltage protection, surge, short circuit protection and over load protection.
- Power Factor: typical > 0.95, THD <20, meets Class1 or Class2 circuit.
- Philips Xitanium: 0-10V Dim to 1%(PH).
- Osram Optotronic: 0-10V Dim to 1%(OS1) or 10%(OS).
- Generic : 0-10V 10% dim. (GR)
- Operating temperature: -4°F (-20°C) ~ 122°F (50°C).

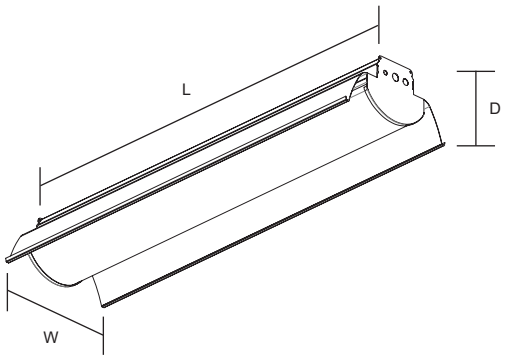
- <ELCU-200>
- Guarantees emergency lighting remains ON or is turned on when power to the control device is lost.
- Interfaces with fire alarm panel or security system.
- "Watchdog" feature allows emergency loads to be controlled in tandem with normal power loads.
- UL listed for use in emergency circuits.

LISTING:

- UL/CUL listed.
- DLC listed. [12]
- Listed to UL 1598 and UL 8750.
- Suitable for damp locations.
- Optional ARRA compliant.
- 5 years warranty.
- 7 or 10 years limited warranty. (optional) [6]
- Bluetooth Mesh System available, please contact factory for more information.

CONFIGURATIONS

Series	Size	Model#	AC Input	Lumen Output	Lumen Efficiency
VR8	4FT	25LED	25W	3386.5 lm	135.46 lm/W
		36LED	36W	4876.6 lm	
		45LED	45W	6095.7 lm	
		54LED	54W	7314.8 lm	
		72LED	72W	9753.1 lm	



Specifications: VR8

Length: 48 (1219)
Width: 14-5/8 (371)
Depth: 7 (178)

All dimensions are in inches (millimeters).

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VR8 LED

ORDERING INFORMATION ***EXAMPLE:*** *VR8-4-45LED-50K-UNV*

MODEL	LENGTH		LED		COLOR TEMP.		EFFICACY		CRI		REFLECTOR	
VR8	**4**	4' Length	**25LED**	25W LED	**-30K**	3000K	**(Blank)**	Standard	**(Blank)**	80+ CRI	**(Blank)**	Solid Top Reflector
			36LED	36W LED	**-35K**	3500K	**HE**	High Efficacy 10%	**C9**	90+ CRI		
			45LED	45W LED	**-40K**	4000K (Std.)						
			54LED	54W LED	**-50K**	5000K						
			72LED	72W LED								

VOLTAGE		MOUNTING		LED DRIVER			
UNV	120-277V	**(Blank)**	Ceiling Surface Mount	**GR**	Generic, 0-10V 10% dim (Std.) [7]	**ES566**	eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim
120	120V	**SH-1/2-xx**	1/2" IPS STEM w/ Canopy (* xx = 18, 24, 36, 48 inches)	**DM1**	Generic 0-10V 1% dim	**LDE1**	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim
277	277V			**PH**	Philips Xitanium, 0-10V 1% dim [7]	**ELV**	ELV compatible (reverse-phase or trailing-edge), (120V only)
347	347V			**OS**	Osram Optotronic, 0-10V 10% dim [7]	**PHSR**	Philips Xitanium Sensor-Ready, Dali 5%~100% dim
				OS1	Osram Optotronic, 0-10V 1% dim [7]	**PHDL**	Philips Xitanium DALI driver, Dim to 5%
				SD40	40% / 100% Bi-Level Step dim (PH only)	**TRIOT**	Tridonic IoT ready, 1-100% dim via Smart Module Interface (SMI), automated dimming/lighting controls via Enlighted Sensor Interface
				SDXX	XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%) (PH only)	**ED560**	eldoLED LightShape DALI dim to dark, 0.1% ~ 100%
				TDM	Triac Dim. (120V only)	**MU050**	0-10V dual channel, 0.1% ~ 100%
				TD30/70	30% / 70% / 100% Tri-Level Step dim (PH only)	**ND**	Driver prewired for non-dimming applications
				TDXX/YY	XX% / YY% / 100% Tri-Level Step dim (Specify XX, YY : 10% ~ 70%) (PH only)		
				LTEA2W	Hi-lume 1% 2-wire LED driver (120V forward phase only)	**BLT**	Bluetooth Mesh System (contact factory for more information)

OPTIONS			
EMG8	1296 LUMEN EM Battery Backup (CEC Compliant EM) [2, 8]	**O7W**	Optional 7 Years Limited Warranty [6]
EMG15	2430 LUMEN EM Battery Backup (CEC Compliant EM) [2, 8]	**O10W**	Optional 10 Years Limited Warranty [6]
EMG20	3240 LUMEN EM Battery Backup (CEC Compliant EM) [2]	**ELCU-200**	Fail-to-on Emergency lighting, UL924 [9]
EMG25	4050 LUMEN EM Battery Backup (CEC Compliant EM) [2, 8]	**DPMS**	Daylight Dimming Photosensor (0-10 VDC Control) [4]
EMSD	Self-Diagnostic Emergency Battery [1, 2]	**AMS**	Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming [4]
GTD	Bodine Generator Transfer Device	**LSR-301-S**	Setup Remote Control for DPMS
GTD10DIM	Bodine Generator Transfer Device (0-10VDC Dimmer Override)	**LSR-301-P**	Occupant Remote Control for DPMS
GLR	Fast Blow Fuse [3]	**MS**	Motion Sensor
WGT	Wireguard	**ARRA**	Assembled in USA for Buy American Act
SSH	Swivel Stem Hanger [4]	**AMB**	Anti-Microbial Coating (Matte Skye White)
CH	Chain Hanger [4, 5]	**HT**	High Temperature (-31°F (-35°C) ~ 140°F (60°C))
		HC403	Microwave bi-level Occupancy Sensor, adjustable via DIP switch [11]

LIGHTING CONTROL SYSTEM	
PPA102S	<Bluetooth> Bluetooth Powerpack (Consult factory for installation location)

NOTES:
1. Emergency Ballast options, specify voltage.
2. Check with factory for more details. Must specify voltage, not available with 347V.
3. Must specify voltage, not available with 347V.
4. Standard length 24", specify length in inches. (24, 36, 48, 60, 72, 96"L)
5. Chain hangers come with V hook.
6. 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 not included)
7. To find an approved dimmer switch, please see table 1.
8. For 2' length, only EMG5 and EMG8 are available.
9. Shipped separately.
10. Not available with Non Lens option (NLE).
11. See Table2 to find factory setting.
12. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified.
    Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

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COMPATIBLE DIMMER SWITCH (TABLE 1)

Model #	Brand	Compatible Dimmer Switch	
PH	Philips Xitanium	<Leviton>	IP710-LFZ
		<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 w/EcoSystem: QSGRJ-XE, QSGR-XE, plus GRX-TVI 0-10V interface PowPak: RMJ-5T
OS, OS1	Osram Optotronic	<Osram>	ZBHA-CLM DIM (NAMED: 45678), 45561 - LC-SL3W-TVWBX/UNV
		<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, FD-301, FSP-202
		<Synergy>	ISD BC
ES566	eldoLED SOLOdrive	<Busch-Jaeger>	2112U-101
		<Jung>	240-10
		<Leviton>	IllumaTech - IP710-DLX
		<Lightoller Controls>	ZP600FAM120
		<Merten>	5729
		<Pass & Seymour>	CD4FB-W
		<Wattstopper>	DCLV1
		<Sensor Switch>	nIO EZ
		<Synergy>	ISD BC
		<ABB>	SD/S 2.16.1
		<Lutron>	Nova T: NTFTV Diva - DVTV-xx, NFTV GRAFIK Eye: GRX-TVI w GRX3503 Energy Savr Node: QSN-4T16-S TVM2 Module
		<Crestron>	GLX-DIMFLV8, GLXP-DIMFLV8, GLPAC-DIMFLV4-*, GLPAC-DIMFLVV8-*, GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, DIN-AO8, DIN-4DIMFLV4, CLS-EXP-DIMFLV, CLCI-1DIMFLV2EX
LDE1	Lutron 5-Series EcoSystem	<Lutron>	PowPak Dimming Modules: RMJ-ECO32-DV-B, FCJ/FCJS-ECO [1, 2] Energi Savr Node (120V only): QSN-1EC0-S, QSN-2ECO-S GRAFIK Eye QS/Homeworks QS control unit (120V only): QSGRJ-_E(wireless) QSGR-_E Quantum Hub (120V only): QP2-_ _2C/4C/6C/8C Homeworks QS/myRoom Plus power module (120V only): LQSE-2ECO-D
MU050	Moons Intelligent Indoor	<Lutron>	Diva - DVTV-xx, DVSTV-xx
PHSR [3]	Philips Xitanium Sen-sor-Ready	<Illumra>	Single Rocker Self-Powered Light Switch (on/off, dim-up/down) Illumra# ZBT-S1AWH Digi-Key# 1082-1033-ND Dual Rocker Self-Powered Light Switch (on/off, dim-up/down, scene1,2) Illumra# ZBT-S2AWH Digi-Key# 1082-1034-ND
TDM	KEYSTONE	<Lutron>	Diva DV-600P, SkyLark S-600P, Ariadni AY-600P, Ariadni TG-603P, Maestro MA-600 (Digital), Diva CFL/LED DVCL-153P, Satin Colors DVSC-600P-SW
		<Leviton>	6641, IllumaTech IPI06-1LX, ToggleTouch TGI06-1LW (Digital)
ELV	KEYSTONE	<Lutron>	MAELV-600BL (Digital), DVELV-300P, SkyLark SELV-300P
LTEA2W	Lutron Hi-lume 2-wire (120V forward voltage only)	<Lutron>	Visit http://www.lutron.com/TechnicalDocumentLibrary/369543_ENG.pdf for a list of compatible dimmer switches.

NOTES:
1. All devices connected to one FCJ/FCJS-ECO will be controlled together. Devices will dim to the same level as the result of a control command.
   For more detail on adjusting low-end light level refer to Application Note#556 at www.lutron.com.
2. For the Line/Hot (L/H) terminal on the driver, it is preferred not to use the switched hot (red) wire from the control but rather the hot wire directly from the power source.
3. Recommended for EasySense System.

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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VR8-25LED

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	286 fc	4.5 ft	5.5 ft
3.3ft	75.8 fc	8.8 ft	10.7 ft
5.0ft	33.0 fc	13.3 ft	16.3 ft
6.7ft	18.4 fc	17.9 ft	21.8 ft
8.3ft	12.0 fc	22.1 ft	27.0 ft
10.0ft	8.26 fc	26.7 ft	32.5 ft

Vert. Spread: 106.3°
Horiz. Spread: 116.9°

VR8-36LED

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	411 fc	4.5 ft	5.5 ft
3.3ft	109 fc	8.8 ft	10.7 ft
5.0ft	47.6 fc	13.3 ft	16.3 ft
6.7ft	26.5 fc	17.9 ft	21.8 ft
8.3ft	17.3 fc	22.1 ft	27.0 ft
10.0ft	11.9 fc	26.7 ft	32.5 ft

Vert. Spread: 106.3°
Horiz. Spread: 116.9°

VR8-44LED

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	503 fc	4.5 ft	5.5 ft
3.3ft	133 fc	8.8 ft	10.7 ft
5.0ft	58.1 fc	13.3 ft	16.3 ft
6.7ft	32.4 fc	17.9 ft	21.8 ft
8.3ft	21.1 fc	22.1 ft	27.0 ft
10.0ft	14.5 fc	26.7 ft	32.5 ft

Vert. Spread: 106.3°
Horiz. Spread: 116.9°

VR8-54LED

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	617 fc	4.5 ft	5.5 ft
3.3ft	164 fc	8.8 ft	10.7 ft
5.0ft	71.4 fc	13.3 ft	16.3 ft
6.7ft	39.7 fc	17.9 ft	21.8 ft
8.3ft	25.9 fc	22.1 ft	27.0 ft
10.0ft	17.8 fc	26.7 ft	32.5 ft

Vert. Spread: 106.3°
Horiz. Spread: 116.9°

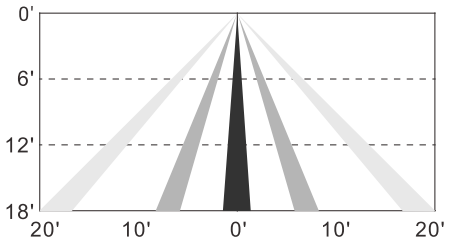
VR8-72LED

Illuminance at a Distance

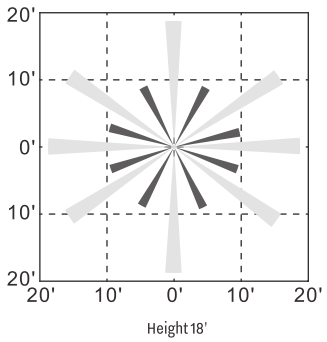
	Center Beam fc	Beam Width	
1.7ft	823 fc	4.5 ft	5.5 ft
3.3ft	218 fc	8.8 ft	10.7 ft
5.0ft	95.1 fc	13.3 ft	16.3 ft
6.7ft	53.0 fc	17.9 ft	21.8 ft
8.3ft	34.5 fc	22.1 ft	27.0 ft
10.0ft	23.8 fc	26.7 ft	32.5 ft

Vert. Spread: 106.3°
Horiz. Spread: 116.9°

SIDE VIEW



TOP VIEW



AMS coverage pattern

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