

Project Name:	
Type:	















APPLICATION

Specification troffer design with hi-transmission acrylic, high performance static luminaires provide excellent visual control and subtle soft indirect illumination. It is high efficiency, great performance and value make it an ideal choice for commercial and institutional environments.

FEATURES:

- Die formed, cold-rolled, 20-gauge steel construction provides durability and strength.
- Finish in high-gloss baked white enamel over rust inhibiting phosphate coating for maximum corrosion resistance.
- High reflectance white reflector distributes light through both optical elements.
- Unique door frame design delivers a premium extruded appearance.
- Door latches and hinges from either side as standard.

SHIELDING:

 Two slope panels of the units are high transmission acrylic that provide a low-brightness glow.

MOUNTING:

- Recessed mounted in expose T-bar ceilings, Internal T-bar safety clips.
- Field installed flange kits are available.

LED:

- High quality array LEDs.
- LM80
- Color Temperature: 2700/3000/3500/4000/5000 (K)
- Color Rendering Index: > 82.8
- 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.
- 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)
- Power Factor: +0.9
- Efficiency: +85%
- Ambient Operating Temperature:
 -22°F (-20°C) ~ 122°F (50°C).
- 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.
- · Suitable for damp locations.
- CEC Compliant EM (please contact for more information)
- · ARRA compliant.
- BAA compliant (optional)
- Made in USA.
- 7 or 10 years limited warranty. (optional) ³
- Bluetooth Mesh System available, please contact factory for more information.

CONFIGURATIONS

Series	Size	Model #	AC Input	Lumen Output	Lumen Efficiency
		25LED	24.24W	2498.6 lm	
	1' x 4'	41LED	40.67W	4193.08 lm	103.1 lm/W
		54LED	54.2W	5588.02 lm	
TRV		28LED	27.73W	3327.5 lm	
	2' x 2'	36LED	36.5W	4380 lm	120 lm/W
		44LED	44.2W	5304 lm	
		28LED	27.73W	3668.67 lm	
		36LED	36.5W	4828.95 lm	
	2' x 4'	44LED	44.2W	5847.66 lm	132.3 lm/W
		56LED	56.4W	7461.72 lm	
		68LED	68.5W	9062.55 lm	

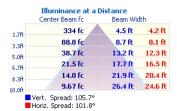
OUTPUT CURRENT

		Bi-Leve	el	Tri-Level (De	fault)
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%





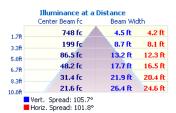
TRV-14-25LED



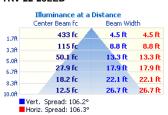
TRV-14-41LED

Center Beam fc	Beam Wid	lth
561 fc	4.5 ft	4.2 ft
149 fc	8.7 ft	8.1 ft
64.9 fc	13.2 ft	12.3 ft
36.1 fc	17.7 ft	16.5 ft
23.5 fc	21.9 ft	20.4 ft
/ 16.2 fc	26.4 ft	24.6 ft

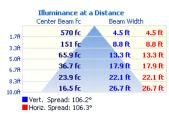
TRV-14-54LED



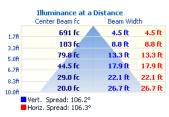
TRV-22-28LED



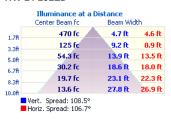
TRV-22-36LED



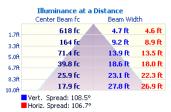
TRV-22-44LED



TRV-24-28LED



TRV-24-36LED



TRV-24-44LED

	Center Beam fc	Beam Wid	JULI
1.78	748 fc 🥒	4.7 ft	4.6 ft
3.38	199 fc	9.2 ft	8.9 ft
5.0ft	86,5 fc	13.9 ft	13.5 ft
6.78	48.2 fc	18.6 ft	18.0 ft
8.38	31.4 fc	23.1 ft	22.3 ft
10.0R	21.6 fc	27.8 ft	26.9 ft

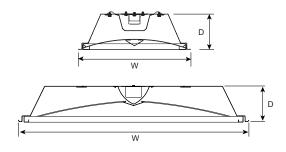
TRV-24-56LED

	Illuminance at a		
	Center Beam fc	Beam Wi	dth
1.7ft	955 fc	4.7 ft	4.6 ft
3.3A -	253 fc	9.2 ft	8.9 ft
5.0A	110 fc	13.9 ft	13.5 ft
6.7R	61.5 fc	18.6 ft	18.0 ft
8.3A	40.1 fc	23.1 ft	22.3 ft
0.08	27.6 fc	27.8 ft	26.9 ft
	Vert. Spread: 108.5° Horiz. Spread: 106.7°		

TRV-24-68LED

	Illuminance at a Center Beam fc	Distance Beam Wid	th
1,78	1,160 fc	4.7 ft	4.6 ft
3.38	308 fc	9.2 ft	8.9 ft
5.0A	134 fc	13.9 ft	13.5 ft
6.7R	74.7 fc	18.6 ft	18.0 ft
8.3A	48.7 fc	23.1 ft	22.3 ft
10.0R	33.5 fc	27.8 ft	26.9 ft
	Vert. Spread: 108.5° Horiz. Spread: 106.7°		



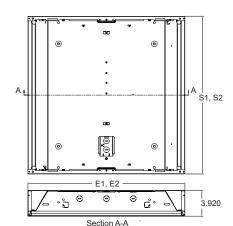


<u>Specifications: 1'x4'</u> Length: 47-3/4 (1213)

Width: 11-3/4 (298.4) Depth: 3-3/4 (95.3) Specifications: 2'x2' Length: 23-3/4 (603)

Length: 23-3/4 (603) Width: 23-15/16 (608) Depth: 3-3/4 (95.3) <u>Specifications: 2'x4'</u> Length: 47-3/4 (1213) Width: 23-15/16 (608) Depth: 3-3/4 (95.3)

All dimensions are in inches (millimeters).



EL Shroud Assembly Variation Length

Dimension	ELSM 1x4	ELSM 2x2	ELSM 2x4
E1, E2	E1 = 11.843"	E2 = 23.938"	E2 = 23.938"
S1, S2	S1 = 48.071"	S2 = 24.071"	S1 = 48.071"



ORDERING INFORMATION

EXAMPLE: TRV-24-36LED-40K-UNV

MODEL	S	IZE	LI	ED	COLO	R TEMP.	E	FFICACY	С	RI	TRIM	TYPE
TRV	14	1' x 4'	25LED 41LED 54LED	25W LED 41W LED 54W LED	-27K -30K -35K	2700K ⁴ 3000K 3500K	(Blank) HE	Standard High Efficacy	(Blank) C9	80+ CRI 90+ CRI ⁵	(Blank) FK SMK	Grid Flange ¹ Surface
	22	2' x 2'	28LED 36LED 44LED	28W LED 36W LED 44W LED	-40K -50K	4000K 5000K						Mount h
	24	2' x 4'	28LED 36LED 44LED 56LED 68LED	28W LED 36W LED 44W LED 56W LED 68W LED								

VC	LTAGE		LED DRIVER		
UNV	120-277V	GR	Generic, 0-10V 10% dim (Std.) 8	LDE1	Hi-lume 1% EcoSystem LED driver with Soft-on,
120	120V	PH	Philips Xitanium, 0-10V 1% dim 8		Fade-to-Black dimming technology, 100% ~ 1% dim
277	277V	os	Osram Optotronic, 0-10V 10% dim 8	ELV	ELV compatible (reverse-phase or trailing-edge), (120V only)
		OS1	Osram Optotronic, 0-10V 1% dim 8	PHSR	Philips Xitanium Sensor-Ready, Dali 5%~100% dim
		SD40	40% / 100% Bi-Level Step dim (PH only)	PHDL	Philips Xitanium DALI driver, Dim to 5%
		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)	DMX	DMX512 control system (Only available with RGB+W option)
		TD30/70	30% / 70% / 100% Tri-Level Step dim (PH only)	DLM	Wattstopper's DLM interface (Only available with RGB+W option)
		TDXX/YY	XX% / YY% / 100% Tri-Level Step dim	LTEA2W	Hi-lume 1% 2-wire LED driver (120V forward phase only)
			(Specify XX, YY : 10% ~ 70%) (PH only)	Ø DI T	Distant Mark Outer (and the first of the fir
		ES566	eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim	₿ BLT	Bluetooth Mesh System (contact factory for more information)

	OPTIONS		LIGHTING CONTROL SYSTEM
PW6	Pre-wired 6' Whip Flex #18/3		<lutron enabled="" system="" vive=""></lutron>
EMG8	1296 LUMEN EM Battery Backup (CEC Compliant EM) 2	VRF	Vive Integral fixture control (RF only), (Must be ordered with EcoSystem drivers or PHSR)
EMG15	2430 LUMEN EM Battery Backup (CEC Compliant EM) 2	FCJS0	Vive Attached fixture control (RF only for 0-10V drivers)
EMG20	3240 LUMEN EM Battery Backup (CEC Compliant EM) 2	FCJSE	Vive Attached fixture control (RF only for Lutron EcoSystem drivers)
EMG25	4050 LUMEN EM Battery Backup (CEC Compliant EM) 2	FCJS0EM	UL 924 Emergency PowPak wireless fixture control for 0-10V drivers
ELCU-200	Fail-to-on Emergency lighting, UL924 ⁶	FCJSEEM	UL 924 Emergency PowPak wireless fixture control for Ecosystem drivers
GTD	Bodine Generator Transfer Device	RMJS8T	Vive Attached fixture control (RF only for 0-10V drivers),
GTD10DIM	Bodine Generator Transfer Device		0-10V control module 8A switched controls up to 60mA.
	(0-10VDC Dimmer Override)	RMJS8TEM	UL924 Emergency PowPak wireless fixture control for RMJS8T
O7W	Optional 7 Years Limited Warranty 3	RMJSECO32	Vive Attached fixture control (RF only for EcoSystem drivers), ECO control module
O10W	Optional 10 Years Limited Warranty 3		< <u>EasySense</u> >
AMB	Anti-Microbial Coating (Matte Skye White)	SNS200C	EasySense Ceiling-mount occupancy sensing, daylight harvesting and task tuning in one device
HC403	Microwave bi-level Occupancy Sensor, adjustable via DIP switch 9		(Must be ordered with PHSR driver) 7
BAA	BAA(Buy American Act) and BABA(Build America Buy America)	RS-IR	IR dongle for EasySense control
	compliant		
			<bluetooth></bluetooth>
		PPA102S	Bluetooth Powerpack (Consult factory for installation location)

- NOTES:

 1. Flange kits are supplied in separate boxes, field installed.

 2. Contact factory for other emergency ballast options.

 3. This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation.

 4. Available with C9 only.
- 5. Lumen per watt is around 15% less than standard CRI (80+).
- 5. Cultimer per water a route 15% less train standard CR1 (604).
 6. Shipped separately.
 7. Please see Compatible Phone list in the separate attachment. If not listed, please order "RS-IR", and follow IR-Dongle user guide and NFC and IR app user's manual. Android users only.
 8. 10. To find an approved dimmer switch, please see table 1.
 9. See Table2 to find factory setting.





COMPATIBLE DIMMER SWITCH (TABLE 1)

Model #	Brand		Compatible Dimmer Switch
		<leviton></leviton>	IllumaTech IP7 series
(Blank)	-	<lutron></lutron>	Visit www.lutron.com/advance for a list of dimmers (Mark VII) that will work with this driver.
		<philips></philips>	Sunrise : SR1200ZTUNV
		<busch-jaeger></busch-jaeger>	2112U-101
		<jung></jung>	240-10
		<leviton></leviton>	IllumaTech - IP710-DLX
		<lightoller controls=""></lightoller>	ZP600FAM120
		<merten></merten>	5729
		<pass &="" seymour=""></pass>	CD4FB-W
		<wattstopper></wattstopper>	DCLV1
		<sensor switch=""></sensor>	nIO EZ
ES566	eldoLED SOLOdrive	<synergy></synergy>	ISD BC
		<abb></abb>	SD/S 2.16.1
		<lutron></lutron>	Nova T: NTFTV Diva - DVTV-xx, NFTV GRAFIK Eye: GRX-TVI w GRX3503 Energy Savr Node: QSN-4T16-S TVM2 Module
		<crestron></crestron>	GLX-DIMFLV8, GLXP-DIMFLV8, GLPAC-DIMFLV4.*, GLPAC-DIMFLVV8.*, GLPP-DIMFLVEX-PM, GLPP-1DIMFLV3EX-PM, DIN-AO8, DIN-4DIMFLV4, CLS-EXP-DIMFLV, CLCI-1DIMFLV2EX
ED560	eldoLED DUALdrive	<lunatone></lunatone>	SS-LUNAT PS2 30mA, SS-LUNAT Touch or BT, SS-LUNAT Comm
LDE1	Lutron Hi-lume 1% EcoSystem	<lutron></lutron>	PowPak Dimming Modules: RMJ-ECO32-DV-B, FCJ/FCJS-ECO ^{1, 2} Energi Savr Node (120V only): QSN-1ECO-S, QSN-2ECO-S GRAFIK Eye QS/Homeworks QS control unit (120V only): QSGRJE(wireless) QSGRE Quantum Hub (120V only): QP22C/4C/6C/8C Homeworks QS/myRoom Plus power module (120V only): LQSE-2ECO-D
TDM	KEYSTONE	<lutron></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></leviton>	6641, IllumaTech IPI06-1LX, ToggleTouch TGI06-1LW (Digital)
ELV	KEYSTONE	<lutron></lutron>	MAELV-600BL (Digital), DVELV-300P, SkyLark SELV-300P
LTEA2W	Lutron Hi-lume 2-wire (120V forward voltage only)	<lutron></lutron>	Visit http://www.lutron.com/TechnicalDocumentLibrary/369543_ENG.pdf for a list of compatible dimmer switches.

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.



^{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.