ELT+TW

Project Name:	
Type:	



APPLICATION

Tunable White technology can mimic the natural daylight to support Circadian Rhythm - the biological clock, innate in the human body affected by the color temperatures. Ability to adjust color temperature and the light source intensity can enhance synchronization of bodies and minds, essential to ensure maximum productivity during the course of the day.
This tunable technologies can provide the ultimate solution to optimize the needs from residential to commercial, healthcare, education, retails, entertainment, office, and more.

FEATURES:

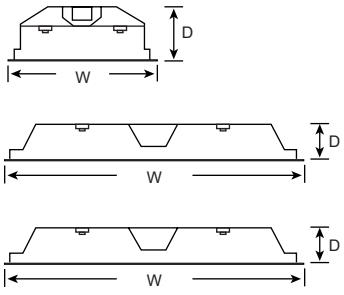
- Die formed, cold-rolled, heavy gauge steel housing construction provides durability and strength.
- Standard steel door frame allows easy lens replacement without tool. Unique door frame design delivers a premium extruded appearance. Smooth edges for easy handling. Powder-painted, door steel latches provide easy, secure door closure.
- Painted parts finished with high-gloss baked white enamel over rust inhibiting phosphate coating.
- PAF (Painted After Fabrication) finish is standard for\ corrosion resistance and efficiency.

MOUNTING:

- Recessed ceiling mount.
- Compatible with most ceiling types.
- Field installed flange kit. (available as option)

LISTING:

- UL/CUL listed and labeled.
- Listed to UL 1598 and UL 8750.
- Recessed Luminaires, Type IC
- Suitable for damp locations.
- ARRA compliant.
- Warranty:
  Power Supply: 5 years limited warranty.
  -265K & 275K: 5 years limited warranty.
  -3065K : 3 years limited warranty.



Specifications: 1'x4'
Length: 47-3/4 (1213)
Width: 11-15/16 (303)
Depth: 4-1/2 (115)
Weight: 16.16 lbs (7.33 kg)

Specifications: 2'x2'
Length: 23-3/4 (603)
Width: 23-15/16 (608)
Depth: 3-1/2 (88.9)
Weight: 13.07 lbs (5.93 kg)

Specifications: 2'x4'
Length: 47-3/4 (1213)
Width: 23-15/16 (608)
Depth: 3-1/2 (88.9)
Weight: 21.01 lbs (9.53 kg)

All dimensions are in inches (millimeters).

CEILING OPENING

Series	Size	Width	Length
FK	1' x 2'	12-3/8"	24-3/8"
	1' x 4'	12-3/8"	48-3/8"
	2' x 2'	24-3/8"	24-3/8"
	2' x 4'	24-3/8"	48-3/8"
FTSH	1' x 4'	12-3/16"	48-3/4"
	2' x 2'	23-15/16"	24-7/8"
	2' x 4'	24-5/8"	48-3/4"

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LED TUNABLE WHITE RECESSED TROFFER

ORDERING INFORMATION

* These custom products are non-cancellable, non-returnable, and non-refundable with the exception of manufacturer defects or damages.

EXAMPLE: *ELT22-2G-36LED-275K-MU050*

MODEL	
ELT14-2G	1' x 4'
ELT22-2G	2' x 2'
ELT24-2G	2' x 4'

WIRED SOLUTION [1]

LED		SYSTEM		CRI		LED DRIVER	
27LED	27W LED	**-265K**	Tunable White 2000-6500K	**(Blank)**	80+ CRI	**ED560**	eldoLED LightShape DALI dim to dark, 0.1% ~ 100%
36LED	36W LED	**-275K**	Tunable White 2700-5000K	**C9**	90+ CRI [5]	**MU050**	0-10V dual channel, 1% ~ 100%
44LED	44W LED	**-CCK**	Tunable White custom CCT from 2000-6500K (Must specify the CCT range)			**PSQ02U**	T-Series 1% 2-channel tunable white driver
54LED	54W LED					**V010V**	Bridgelux VESTA 0-10V
72LED	72W LED					**VDALI**	Bridgelux VESTA Dali2 DT8
108LED	108W LED						

* Contact factory for custom wattage or lumen requirement.

CONTROLS	
DUALSWT-WH	2-1 Dual wall switch,120v only, white finish [2]
	* Only with "MU050" driver.

WIRELESS SOLUTION [3]

LED			SYSTEM		CRI		LED DRIVER		CONTROLS [2, 3]	
1x4	**MO**	Medium output, 48W	**-3065K**	Tunable White 3000-6500K With wireless solution [4]	**(Blank)**	90+ CRI [5]	**CV24**	24VDC power supply	**MZ-TW**	4-zone RF remote, white finish
	HO	High output, 96W							**BLT**	Bluetooth / Smartphone App
2x2	**MO**	Medium output, 24W								
	HO	High output, 48W								
2x4	**MO**	Medium output, 48W								
	HO	High output, 96W					**2DMX**	2-channel DMX512 decoder	**(Blank)**	None
27LED		18W LED	**-265K**	Tunable White 2000-6500K	**(Blank)**	80+ CRI	**(Blank)**	Bridgelux VESTA	**VWSC**	Bridgelux VESTA Wisilica Bluetooth
36LED		27W LED	**-275K**	Tunable White 2700-5000K	**C9**	90+ CRI [5]			**VWIZ**	Bridgelux VESTA WIZ-connected Wi-Fi
44LED		36W LED	**-CCK**	Tunable White custom CCT from 2000-6500K (Must specify the CCT range)					**VSVR**	Bridgelux VESTA Silvair Bluetooth Mesh
54LED		54W LED							**VCAS**	Bridgelux VESTA Casambi Bluetooth Mesh
72LED		72W LED								
108LED		108W LED								

* Contact factory for custom wattage or lumen requirement.

DIFFUSER		TRIM TYPE		DIFFUSER		VOLTAGE		POWER FEED LOCATION	
(Blank)	Flush Steel, White	**(Blank)**	Grid	**(Blank)**	Pattern #12 Acrylic Lens 0.1" Thick	**UNV**	120-277V	**EMG8**	8W EM battery backup (CEC compliant EM) [8,9]
SB	Flush Steel, Black	**FK**	Flange [6]	**A12125**	Pattern #12 Acrylic Lens 0.125" Thick			**EMG15**	15W EM battery backup (CEC compliant EM) [8,9]
FB	Flush Aluminum, Black	**FTSH**	Flanged Trim [7]	**P12125**	Pattern #12 Polycarbonate Lens 0.125" Thick			**EMG20**	20W EM battery backup (CEC compliant EM) [8,9]
FN	Flush Aluminum, Natural			**WA8**	Lumieo white Acrylic 0.080" Thick			**EMG25**	25W EM battery backup (CEC compliant EM) [8,9]
FW	Flush Aluminum, White			**A19**	Pattern #19 Acrylic Lens 0.156" Thick			**PW6**	Pre-wired 6' Whip Flex #18/3
RB	Regressed Aluminum, Black			**P1**	5/8"x5/8"x7/16" Deep Specular Plastic Louver			**MS11**	Master Slave w/11' Whip
RN	Regressed Aluminum, Natural			**FR**	Frosted Acrylic Lens, Pattern#12 0.100" Thick			**WT**	Wet Location [10]
RW	Regressed Aluminum, White			**FR12**	Frosted Acrylic Lens, Pattern#12 0.125" Thick			**GS1**	Single Gasketing
AMB	Anti-Microbial Coating (Matte Skye White)			**P5OL**	3/4" x 3/4" x 3/8" Deep Specular Plastic Louver with overlay			**GS2**	Double Gasketing
								GS3	Triple Gasketing

NOTES:
1. Refer to Table1 to find more information.
2. Refer to Table1 to find more information.
3. Refer to Table2 to find more information.
4. Custom wattage or lumen is not available.
5. Lumen per watt is approximately 15% less than standard CRI 80+.
6. Supplied in separate boxes, field installed.
7. Flanged trims are supplied with swing gate hanger.
8. Contact factory for other emergency ballast options.
9. Must specify voltage; 120V, 277V
10. Closed cell gasket between housing and door frame, and between lens and door frame (additional gasket between housing and ceiling grid available with GS3 option). FW door and Grid Ceiling only.

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WIRED SOLUTION (TABLE1)

SPECIFICATION CHART

	-265K	-275K
Tunable Range	2000 - 6500K	2700 - 5000K
Lumen Efficiency	2500 lm/ft (at 3500K), >115 lm/W	
CRI	80+ (90+ optional)	
Dimming	0.1% - 100%	
Color Consistency	3-step MacAdam binning	
Lumen Maintenance	> 50,000 hours	
Control Options	DALI (#ED560), 0-10V (#MU050), Lutron T-Series (#PSQ02U), V010, VDALI	
Warranty	5 years limited warranty	

COMPATIBLE DIMMER SWITCH CHART

Model #	Brand	Compatible Dimmer Switch	
ED560	eldoLED DUALdrive	<Lunatone>	SS-LUNAT PS2 30mA SS-LUNAT Touch or BT SS-LUNAT Comm
MU050	Moons Intelligent indoor	<Lutron>	Diva - DVTV-xx, DVSTV-xx
PSQ02U	Lutron	<Lutron>	Quantum System Network
V010V	Bridgelux	Industry standard 0-10V dimmer switch	
VDALI	Bridgelux	Industry standard DALI2 DT8 devices	

0-10V Control



V010V

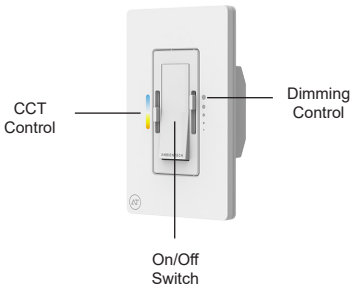
- 0-10V control protocol.
- Two channel control of color temperature and intensity.
- Compatible with industry standard 0-10V current sourcing or 10V current sinking wired control devices

DALI2 DT8 Control



VDALI

- DALI2 DT8 certified.
- Two channel control of color temperature and intensity.
- Compatible with industry standard DALI2 DT8 devices.
- Commission and manage lighting fi xtures via any DALI2 certified controller.



* Wall Plate included

DUALSWT-WH

Input	120VAC, ~60Hz
Max Load	500W
Dimming Curve	Linear, PWM
Compatibility	eldoLED DUALdrive, Moon's 0-10V Dual Series
Features	Field adjustable low-end trim, Built-in Relay
UL listed	UL 1472 / CSA C22.2 184.1
FCC	Class B Part 15

Tunable White

Dimmable

DIMMER
E507432

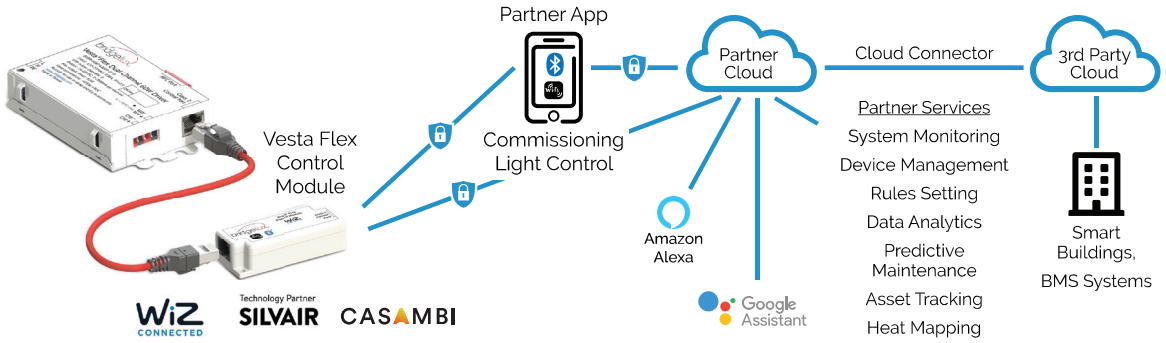
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WIRELESS SOLUTION (TABLE 2)

	-265K	-275K	-3065K
Tunable Range	2000 - 6500K	2700 - 5000K	3000 - 6500K
Lumen Efficiency	2500 lm/ft (at 3500K), >115 lm/W		512 lm/ft , up to 87.5 lm/W
CRI	80+ (90+ optional)		90+
Dimming	0.1% - 100%		PWM
Color Consistency	3-step MacAdam binning		-
Lumen Maintenance	> 50,000 hours		> 50,000 hours
Control Options	Bridgelux VESTA Bluetooth Mesh & Wi-Fi. Wisilica, WIZ, Silvair, Casambi		Wireless remote, Bluetooth (Smartphone / APP)
Warranty	5 years limited warranty		3 years limited warranty

-265K & -275K (CONTROLS)



WISILICA BLE Control



VWSC

- Connect lighting fixtures to an intelligent non-flooding BLE mesh network
- Commission and manage lighting fixtures via iOS and Android apps or web portal.
- Interoperates with beacons and sensors via BLE.
- Large ecosystem of compatible sensors, switches, gateways, 3rd party clouds.
- Cloud services such as system monitoring, device management, predictive maintenance, asset tracking, data analytics.

WiZ CONNECTED Wi-Fi Control



VWIZ

- Connect lighting fi xture to the internet via Wi-Fi; no hub needed.
- Interoperates with sensors via BLE.
- Commission and manage lighting fixtures via iOS and Android apps or web portal.
- Large ecosystem of compatible sensors, switches, gateways, cloud platform.
- Cloud services such as system monitoring, device management, predictive maintenance, asset tracking, data analytics.

Technology Partner SILVAIR BLE Control



VSVR

- Interoperability with standard BLE mesh lighting ecosystem.
- IOS app and web portal interface options.
- Seamless device commissioning.
- Rules setting and supervision, energy usage monitoring.
- Data gathering on usage, locations, users, time of day.
- Automation based on users and sensors.
- Ecosystem with sensors, switches.
- Firmware updates over the air.
- Customizable and integration-ready APIs.

CASAMBI BLE Control



VCAS

- Casambi proprietary Bluetooth Low Energy mesh protocol.
- IOS app and Android app interface options.
- Seamless device commissioning.
- Rules setting and supervision, predictive maintenance.
- Data gathering on usage, locations, users, time of day.
- Automation based on users and sensors.
- Firmware updates over the air.
- Customizable and integration-ready APIs.
- Ecosystem with sensors and switches, and luminaires.
- Multi level security.

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-2762K (CONTROLS)



WL-x (Wireless Wall remote)

	Wall
Dimensions	L 4-3/8" x W 3-1/4" x D 1-3/4"
Weight	0.35 lbs
Dimming Type	PWM
Signal Type	RF (Radio Frequency) 434MHz/868MHz
Range	100ft from fixture
Working Temp.	-20°F to 140°F (-28°C to 60°C)
* Battery	3V (CR2032 Battery)

* Included.

Light Mesh

BLT (Bluetooth / Smartphone App)

Bluetooth	
Software	IOS 8.0 and up, Android 4.4 and up
Connection	Bluetooth V4.0 and up, with mesh features
Dynamic Mode	42 modes
Features	Group, Set Scences
Bluetooth Distance	> 49ft in open area
PWM Frequency	1000 Hz (1KHz)
PWM Grade	4000 steps
IP Rating	IP68 Waterproof

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