

# CUBE1+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.

**MOUNTING:**

- Pendant, surface and wall mount.

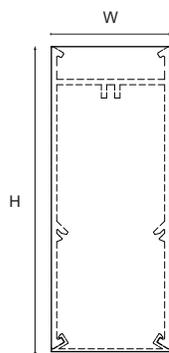
**FEATURES:**

- One piece extruded aluminum housing with die-cast aluminum end caps.
- Standard powder-coat textured white paint finish on exposed trim.
- One piece extruded snap-in polycarbonate lens up to 8' run.

**LISTING:**

- UL /cUL listed.
- Listed to UL 1598 and UL 8750
- UL listed for dry & damp location
- CEC Compliant EM (please contact for more information)
- ARRA compliant.
- Warranty:
  - 265K & -275K : 5 years limited warranty.
  - 3065K : 3 years limited warranty.
- **Power source:** 5 years limited warranty.

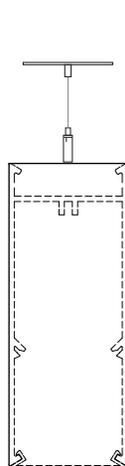
**- MOUNTING DETAILS**



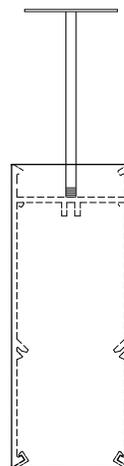
Specifications: CUBE1

Width: 1.75 (44.5)  
Height: 4.5 (114.3)

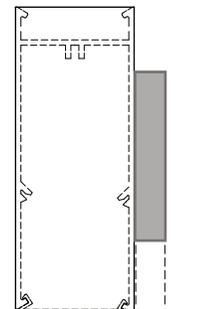
\* All dimensions are in inches (millimeters).



AC Cable



Stem



Wall

# ARCHITECTURAL TUNABLE WHITE LINEAR

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

**EXAMPLE:** CUBE1-IND-4-D27L-U18L-265K-ED560

MODEL	ROW <sup>1</sup>	SECTION <sup>2</sup>
<b>CUBE1-IND</b> (Individual Mount) <b>CUBE1-CON</b> (Continuous Row Mount)	<b>xx'</b> Specify nominal overall row length in 1' increments (Continuous runs)	<b>2</b> 2' Length <b>3</b> 3' Length <b>4</b> 4' Length <b>6</b> 6' Length <b>8</b> 8' Length <sup>3</sup>
<b>CUBE1-SQ</b> (Square)	<b>X'-Y'</b> Specify dimension in inches. (Minimum required dimension is 2'-2") Must provide a sketch on the last page	
<b>CUBE1-CM</b> (Custom)	Must provide a sketch on the last page	

**WIRED SOLUTION <sup>5</sup>**

LED Downlight (per/4ft)	LED Uplight (per/4ft)	SYSTEM	CRI	LED DRIVER
<b>D9L</b> 9W LED (312 lm/ft) <b>D18L</b> 18W LED (624 lm/ft) <b>D27L</b> 27W LED (936 lm/ft) <b>D36L</b> 36W LED (1248 lm/ft)	<b>(Blank)</b> No Uplight <b>U9L</b> 9W LED (312 lm/ft) <b>U18L</b> 18W LED (624 lm/ft) <b>U27L</b> 27W LED (936 lm/ft)	<b>-265K</b> Tunable White 2000-6500K <b>-275K</b> Tunable White 2700-5000K <b>-CCK</b> Tunable White custom CCT from 2000-6500K (Must specify the CCT range)	<b>(Blank)</b> 80+ CRI <b>C9</b> 90+ CRI <sup>12</sup>	<b>ED560</b> eldoLED LightShape DALI dim to dark, 0.1% ~ 100% <b>MU050 DUAL010</b> 0-10V dual channel, 1% ~ 100% <b>PSQ02U</b> T-Series 1% 2-channel tunable white driver <b>V010V VDALI</b> Bridgelux VESTA 0-10V Bridgelux VESTA Dali2 DT8
<b>Dxx-Uxx:</b> Custom lumen or Watt: ____ LM or ____ W * Max up to D4992lm-U3744lm or D36W-U27W.				

CONTROLS (OPTIONAL)	
<b>(BLANK) DUALSWT-WH</b>	None 2-1 Dual wall switch, 120v only, white finish <sup>5</sup> * Only available with MU050 or DUAL010.

**WIRELESS SOLUTION <sup>6</sup>**

LED Downlight	LED Uplight	SYSTEM	CRI	LED DRIVER	CONTROLS <sup>5, 6</sup>
<b>DLO</b> Low output, 6 W/ft, 512 lm/ft	<b>(Blank) ULO</b> No Uplight Low output, 6 W/ft, 512 lm/ft	<b>-3065K</b> Tunable White 3000-6500K With wireless solution <sup>4</sup>	<b>(Blank)</b> 90+ CRI <sup>12</sup>	<b>CV24</b> 24VDC power supply <b>2DMX</b> 2-channel DMX512 decoder	<b>MZ-TW</b> 4-zone RF remote, white finish <b>BLT</b> Bluetooth / Smartphone App <b>(Blank)</b> None
<b>D9L</b> 9W LED (312 lm/ft) <b>D18L</b> 18W LED (624 lm/ft) <b>D27L</b> 27W LED (936 lm/ft) <b>D36L</b> 36W LED (1248 lm/ft)	<b>(Blank) -9L</b> No Uplight 9W LED (312 lm/ft) <b>-U18L</b> 18W LED (624 lm/ft) <b>-U27L</b> 27W LED (936 lm/ft)	<b>-265K</b> Tunable White 2000-6500K <b>-275K</b> Tunable White 2700-5000K <b>-CCK</b> Tunable White custom CCT from 2000-6500K (Must specify the CCT range)	<b>(Blank) C9</b> 80+ CRI 90+ CRI <sup>12</sup>	<b>(Blank)</b> Bridgelux VESTA	<b>VWSC</b> Bridgelux VESTA <b>VWIZ</b> Wisilica Bluetooth <b>VSVR</b> Bridgelux VESTA WIZ-connected Wi-Fi <b>VCAS</b> Bridgelux VESTA Silvr Bluetooth Mesh Casambi Bluetooth Mesh
<b>Dxx-Uxx:</b> Custom lumen or Watt: ____ LM or ____ W * Max up to D4992lm-U3744lm or D36W-U27W.					

MOUNTING		VOLTAGE		FIXTURE FINISH		CORD FINISH (for pendnat)		CANOPY FINISH (for pendant)		CEILING TYPE (for pendant)	
<b>(Blank)</b> <b>S</b> <b>W</b>	Pendant Ceiling Surface Wall	<b>UNV</b> <b>120</b> <b>277</b>	120-277V 120V 277V	<b>(Blank)</b> <b>*BK</b> <b>*SV</b> <b>**CC</b> <b>*CSS</b> <b>*AMB</b>	Matte White RAL #9003 (Std.) Black RAL #9011 Silver RAL #9022 Custom Color Custom Canopy Color (White is Std.) Anti-Microbial Coating (Matte Skye White)	<b>(Blank)</b> <b>*BKC</b>	White (Std.) Black <sup>8</sup>	<b>(Blank)</b> <b>*BC</b> <b>*SC</b> <b>*CSS</b>	White (Std.) Black Canopy Silver Canopy Custom Canopy Color	<b>X1</b> <b>X2</b> <b>X3</b> <b>X4</b> <b>X5</b>	15/16" grid T-bar ceiling Hard ceiling Sloped Hard ceiling 9/16" T-bar ceiling 9/16" Screw Slot ceiling
<small>* Non-standard finish with extra charge. ** Additional charge &amp; set up fee.</small>											

# CUBE1+TW

SUSPENSION LENGTH (for pendant)		OPTIONS	
<b>AC48</b>	Adjustable Aircraft Cable Canopy 48"L	<b>EMG8</b>	8W EM Battery Backup <sup>7, 9, 10</sup>
<b>AC96</b>	Adjustable Aircraft Cable Canopy 96"L	<b>EMG15</b>	15W EM Battery Backup <sup>7, 9, 10</sup>
<b>ST24</b>	Stem Canopy 24"L	<b>EMG20</b>	20W EM Battery Backup <sup>7, 9, 10</sup>
<b>ST48</b>	Stem Canopy 48"L	<b>ELCU-200</b>	Fail-to-on Emergency lighting, UL924 <sup>11</sup>
		<b>COC</b>	Separated EM feed for City of Chicago code compliance Up and Down separate control
		<b>UDSC</b>	

\* Contact factory for custom length.  
1 pair (2 aircraft cables) standard for up to 8' length.  
\* Add "FC" at the end of stem length for field cuttable stem kit (ex) ST48FC))

**NOTES:**

1. Specify only when Continuous Row Mount.
2. No need to select, if same as row length and section length.
3. Comes with 1pc 8ft lens.
4. Custom wattage or lumen is not available.
5. Refer to Table1 to find more information.
6. Refer to Table2 to find more information.
7. EM is installed in the last 4' of luminaire sections. Separate section required & voltage must be specified.
8. Not available with the EM option.
9. Contact factory for other emergency ballast options.
10. With -2762K system: EM will operate on a fixed white LED.
11. Shipped separately.
12. Lumen per watt is approximately 15% fewer than CRI 80.

# CUBE1+TW

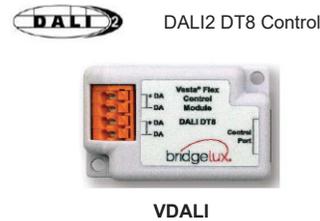
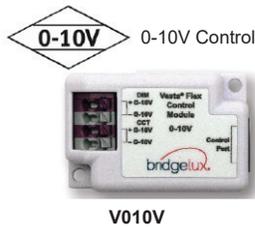
**WIRED SOLUTION (TABLE1)**

**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	

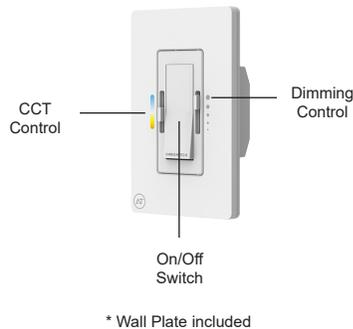
**COMPATIBLE DIMMER SWITCH CHART**

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



**DUALSWT-WH**

Input	120VAC, ~60Hz
Max Load	600W
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

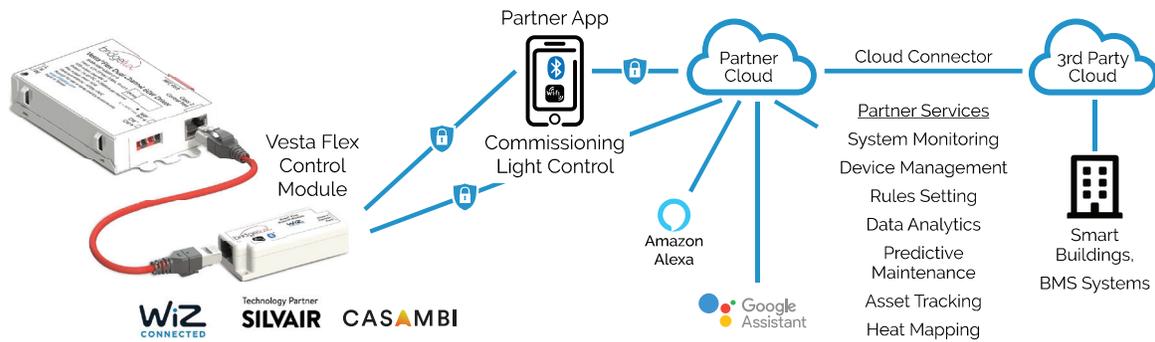


# CUBE1+TW

**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+
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, Silvoir, Casambi		Wireless remote, Bluetooth (Smartphone / APP)
Warranty	5 years limited warranty		3 years limited warranty

**-265K & -275K (CONTROLS)**



**WISILICA BLE Control**



**VVSC**

- 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 Wi-Fi Control**



**VVWIZ**

- Connect lighting fixture 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.



**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.



# CUBE1+TW

-3065K (CONTROLS)



**WL-MZ-WH (Wireless Wall remote)**

Dimensions	L 4.3" x W 2" x D 0.85"
Weight	0.1 lbs
Signal Type	RF (Radio Frequency) 2.4GHz
Zone	4 zone
Range	98ft from fixture
Working Temp.	-4°F to 131°F (-20°C to 55°C)
* Battery	2 x AAA battery

\* Not included.



Smart Life



Tuya Smart

**BLT (Bluetooth / Smartphone App)**

Bluetooth	
Software	IOS 8.0 and up, Android 4.4 and up
App	Smart Life or Tuya Smart supported
Features	Group, Scenes
Bluetooth Distance	> 49ft in open area
Additional Feature	Home Management / Third party control -> Alexa, Google Assistant (by others)

2DMX



**2DMX (2-channel DMX decoder)**

Dimensions	L 7" x W 1.8" x D 1.2"
Output Current	8A / channel
Input Voltage	12-24V DC
Output Power	384W @ 24V
Frequency	PWM

# ARCHITECTURAL TUNABLE WHITE LINEAR

## CUBE 1 LIT CONNECTOR PATTERNS

The lit connector system allows continuous illumination all the way through the corner section.

**Instruction:**

- Please provide sketches illustrating corner types, overall dimensions including corner dimensions, and locations required.
- HC90, TC, and XC connectors are 90 degree corners (overall, outside dimension).

