

# CUBE4-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:**

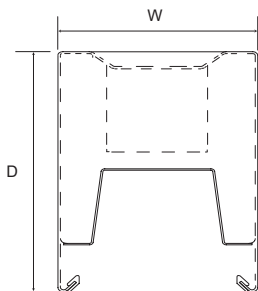
- Pendant, surface and wall mount.
- Recessed mount including T-bar, Screw slot and Drywall.

**FINISH:**

- Standard powder-coat textured white paint finish on exposed trim.
- Consult factory for custom colors.
- Comes with snap-in acrylic lens as standard.

**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.



Specifications: CUBE4

Width: 4 (101)  
Depth: 4 (101)

All dimensions are in inches (millimeters).

**WEIGHT**

Item	lbs	kg
CUBE 4 2FT PENDANT	8.36	3.79
CUBE 4 3FT PENDANT	10.95	4.97
CUBE 4 4FT PENDANT	13.70	6.22
CUBE 4 8FT PENDANT	24.97	11.33
CUBE 4 HC90 PENDANT	17.84	8.09
CUBE 4 X PENDANT	18.50	8.39
CUBE 4 T PENDANT	13.21	5.99

# 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: CUBE4-IND-4-D27L-275K-MU050

MODEL	ROW <sup>1</sup>	SECTION <sup>2</sup>
<b>CUBE4-IND</b> (Individual Mount) <b>CUBE4-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>CUBE4-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>CUBE4-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>(Blank)</b> No Downlight <b>D18L</b> 18W LED (734 lm/ft) <b>D27L</b> 27W LED (924 lm/ft) <b>D36L</b> 36W LED (991 lm/ft) <b>D48L</b> 48W LED (1384 lm/ft) <b>D54L</b> 54W LED (1467 lm/ft) <small>* Maximum wattage per 4ft section - pendant/wall mount : 75W (up &amp; down light) * Contact factory for custom wattage or lumen requirement.</small>	<b>(Blank)</b> No Uplight <b>/U18L</b> 18W LED (530 lm/ft) <b>/U27L</b> 27W LED (733 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>18</sup>	<b>ED560</b> eldoLED LightShape DALI dim to dark, 0.1% ~ 100% <b>MU050</b> 0-10V dual channel, 1% ~ 100% T-Series 1% 2-channel tunable white driver <b>PSQ02U</b> <b>V010V</b> Bridgelux VESTA 0-10V <b>VDALI</b> Bridgelux VESTA Dalii2 DT8

CONTROLS	
<b>DUALSWT-WH</b>	2-1 Dual wall switch, 120v only, white finish <sup>5</sup> <small>* Only with *MU050* driver.</small>

## WIRELESS SOLUTION <sup>6</sup>

LED Downlight	LED Uplight	SYSTEM	CRI	LED DRIVER	CONTROLS <sup>5, 6</sup>
<b>(Blank)</b> No Downlight <b>DLO</b> Low output, 11 W/ft, 1024 lm/ft <b>DHO</b> High output, 16.5 W/ft, 1536 lm/ft	<b>(Blank)</b> No Uplight <b>ULO</b> Low output, 6 W/ft, 512 lm/ft <b>UHO</b> High output, 12 W/ft, 1024 lm/ft	<b>-3065K</b> Tunable White 3000-6500K With wireless solution <sup>4</sup>	<b>(Blank)</b> 90+ CRI <sup>18</sup>	<b>CV24</b> 24VDC power supply <b>2DMX</b> 2-channel DMX512 decoder	<b>MZ-TW</b> 4-zone RF remote, white finish Bluetooth / Smartphone App <b>BLT</b> <b>(Blank)</b> None
<b>(Blank)</b> No Downlight <b>D18L</b> 18W LED (734 lm/ft) <b>D27L</b> 27W LED (924 lm/ft) <b>D36L</b> 36W LED (991 lm/ft) <b>D48L</b> 48W LED (1384 lm/ft) <b>D54L</b> 54W LED (1467 lm/ft) <small>* Maximum wattage per 4ft section - pendant/wall mount : 75W (up &amp; down light) * Contact factory for custom wattage or lumen requirement.</small>	<b>(Blank)</b> No Uplight <b>/U18L</b> 18W LED (530 lm/ft) <b>/U27L</b> 27W LED (733 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>18</sup>	<b>(Blank)</b> Bridgelux VESTA	<b>VWSC</b> Bridgelux VESTA <b>VWIZ</b> Wisilica Bluetooth <b>VWIZ</b> Wisilica Bluetooth <b>WIZ</b> WIZ-connected Wi-Fi <b>VSVR</b> Bridgelux VESTA <b>VSVR</b> Silvair Bluetooth Mesh <b>VCAS</b> Bridgelux VESTA <b>VCAS</b> Casambi Bluetooth Mesh

MOUNTING	VOLTAGE	POWER FEED LOCATION	EM SECTION <sup>10</sup>	FINISH	CORD FINISH <sup>11</sup>
<b>(Blank)</b> Pendant <b>S</b> Ceiling Surface <b>W</b> Wall <b>G1</b> 9/16", 15/16", 1" T-bar Ceiling Grid <sup>7</sup> <b>SS</b> Screw Slot Ceiling Grid <b>FT</b> Standard 1/2" Flange (Drywall) <sup>8, 9</sup> <b>SF</b> Spackle Flange (Trimless) <sup>8, 9</sup>	<b>UNV</b> 120-277V <b>120</b> 120V <b>277</b> 277V	<b>PL</b> Power location must be provided in the drawing (Std.) <small>* Required for -SQ and -CM model only.</small>	<b>(Blank)</b> None EM <b>1SE</b> 1 Section <b>2SE</b> 2 Section <b>xSE</b> x Section	<b>(Blank)</b> Matte White RAL #9003 (Std.) <b>*BK</b> Black RAL #9011 <b>*SV</b> Silver RAL #9022 <b>**CC</b> Custom Color <b>*CSS</b> Custom Canopy Color (White is Std.) <b>*AMB</b> Anti-Microbial Coating (Matte Skye White) <small>* Non-standard finish with extra charge. ** CC: additional charge &amp; set up fee. Provide RAL# code.</small>	<b>(Blank)</b> White (Std.) <b>BKC</b> Black <small>* Black cord additional charge.</small>

# CUBE4-TW

CEILING TYPE (for pendant)		SUSPENSION LENGTH		OPTIONS			
<b>X1</b>	15/16" grid T-bar ceiling	<b>AC48</b>	Adjustable Aircraft Cable Canopy 48"L	<b>HC90-11</b>	90° Horizontal Lit Connector, 1'x1' <sup>12</sup>	<b>COC</b> <b>STB</b>	Separated EM feed for City of Chicago code compliance Slip Through Bracket <sup>17</sup>
<b>X2</b>	Hard ceiling	<b>AC96</b>	Adjustable Aircraft Cable Canopy 96"L	<b>HC90-12</b>	90° Horizontal Lit Connector, 1'x2' <sup>12</sup>		
<b>X3</b>	Sloped Hard ceiling	<b>ST24</b>	Stem Canopy 24"L	<b>HC90-21</b>	90° Horizontal Lit Connector, 2'x1' <sup>12</sup>		
<b>X4</b>	9/16" T-bar ceiling	<b>ST48</b>	Stem Canopy 48"L	<b>HC90-22</b>	90° Horizontal Lit Connector, 2'x2' <sup>12</sup>		
				<b>HC135-22</b>	135° Horizontal Lit Connector, 2'x2' <sup>12</sup>		
				<b>TC</b>	T-Type Lit Connector <sup>13</sup>		
				<b>XC</b>	X-Type Lit Connector <sup>13</sup>		
				<b>CW90</b>	Ceiling to Wall corner connector <sup>14</sup>		
				<b>WW</b>	Wall Wash		
				<b>EMG5</b>	5W EM Battery Backup (CEC Compliant EM) <sup>15, 16</sup>		
				<b>EMG8</b>	8W EM Battery Backup (CEC Compliant EM) <sup>15, 16</sup>		
				<b>EMG16</b>	16W EM Battery Backup (CEC Compliant EM) <sup>15, 16</sup>		

**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. Compatible with T-bar ceiling type.
8. Compatible with hard ceiling type.
9. Requires STB (under option) as standard.
10. EM is installed in last 4' of luminaire sections. Separate section required 2SE or specified. Must specify voltage.
11. Black is not available for the EM option.
12. Refer to a separate CUBE4-HC90 spec sheet to find more information.
13. Cannot be ordered as wall mount.
14. Only applicable for FT and SF mounting option.
15. Contact factory for other emergency ballast options.
16. EM mode will operate with white LED for the wireless solution -3065K.
17. Standard with "FT" and "SF" mounting.
18. Lumen per watt is approximately 15% less than standard CRI 80+.

# CUBE4-TW

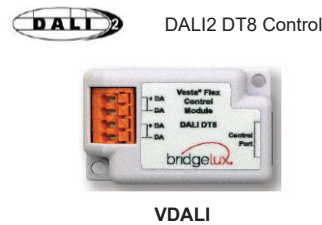
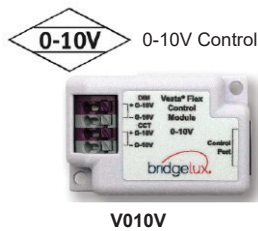
**WIRED SOLUTION (TABLE1)**

**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	

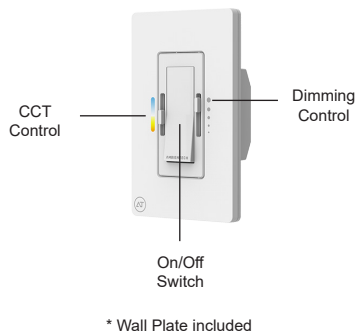
**COMPATIBLE DIMMER SWITCH CHART**

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>	Divi - 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

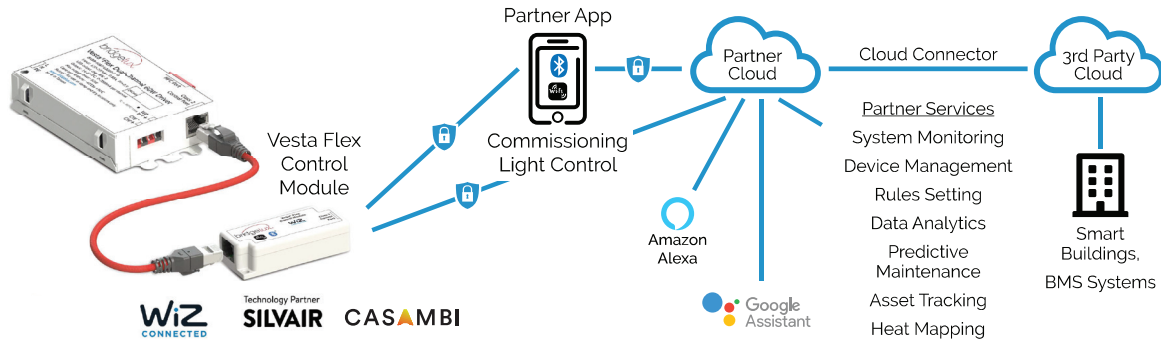


# CUBE4-TW

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

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



**WISILICA BLE Control**



**WISC**

- 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**



**VWIZ**

- 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.



# CUBE4-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)

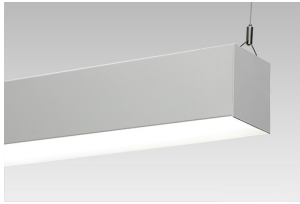
**2DMX**



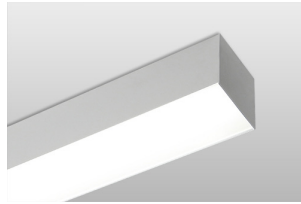
**2DMX (2-channel DMX decoder)**

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

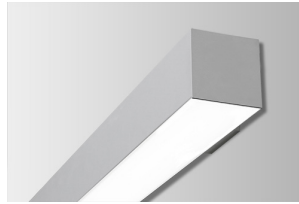
# CUBE4-TW



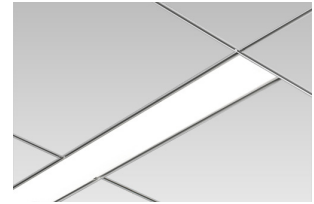
CABLE



SURFACE



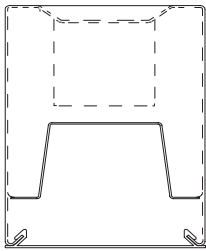
WALL



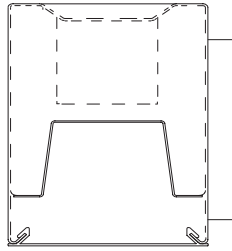
RECESSED

**- MOUNTING DETAILS**

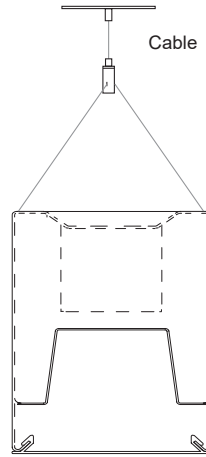
Surface



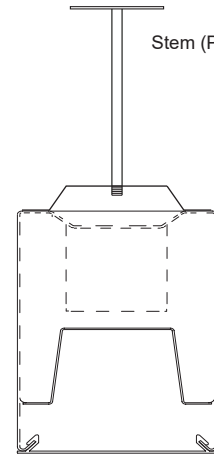
Wall



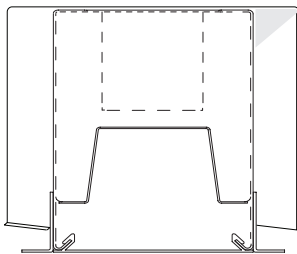
Cable



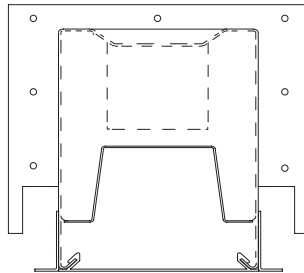
Stem (Pendent)



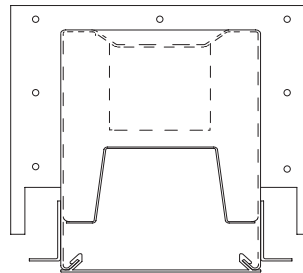
Drywall



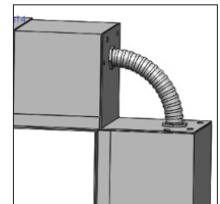
T-bar (G-1)



Screw Slot (SS)

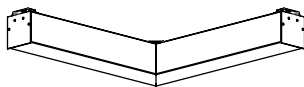


CW90

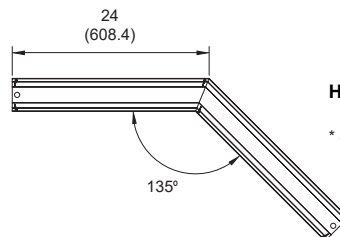


\* See a separate CUBE4-Recessed spec sheet to find detail information.

**- LIT CONNECTOR**



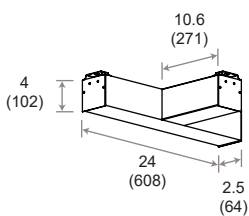
**HC90-11**  
**HC90-12**  
**HC90-21**  
**HC90-22**



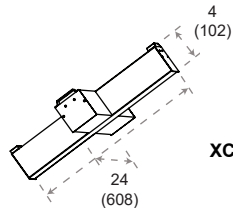
**HC135-22**

\* See a separate CUBE4-HC90 spec sheet to find more information.

\* See a separate CUBE4-HC90 spec sheet to find more information.



**TC**



**XC**

# ARCHITECTURAL TUNABLE WHITE LINEAR

## CUBE 4 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).

