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:

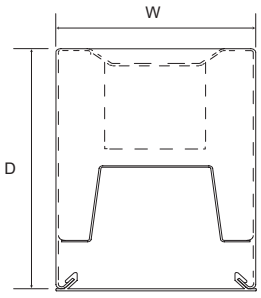
- Pendant, surface and wall mount.
- Recessed mount including T-bar, Screw slot and Drywall.

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

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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 [1]		SECTION [2]	
CUBE4-IND (Individual Mount) **CUBE4-CON** (Continuous Row Mount)	**xx'**	Specify nominal overall row length in 1' increments (Continuous runs)	**2** **3** **4** **6** **8**	2' Length 3' Length 4' Length 6' Length 8' Length [3]
CUBE4-SQ (Square)	**X'-Y'**	Specify dimension in inches. (Minimum required dimension is 2'-2') Must provide a sketch on the last page		
CUBE4-CM (Custom)	Must provide a sketch on the last page			

WIRED SOLUTION [5]

LED Downlight (per/4ft)		LED Uplight (per/4ft)		SYSTEM		CRI		LED DRIVER	
(Blank)	No Downlight	**(Blank)**	No Uplight	**-265K**	Tunable White 2000-6500K	**(Blank)**	80+ CRI	**ED560**	eldoLED LightShape DALI dim to dark, 0.1% ~ 100%
D18L	18W LED (734 lm/ft)	**/U18L**	18W LED (530 lm/ft)	**-275K**	Tunable White 2700-5000K	**C9**	90+ CRI [18]	**MU050**	0-10V dual channel, 1% ~ 100%
D27L	27W LED (924 lm/ft)	**/U27L**	27W LED (733 lm/ft)	**-CCK**	Tunable White custom CCT from 2000-6500K (Must specify the CCT range)			**PSQ02U**	T-Series 1% 2-channel tunable white driver
D36L	36W LED (991 lm/ft)							**V010V**	Bridgelux VESTA 0-10V
D48L	48W LED (1384 lm/ft)							**VDALI**	Bridgelux VESTA Dali2 DT8
D54L	54W LED (1467 lm/ft)								

* Maximum wattage per 4ft section - pendant/wall mount : 75W (up & down light)
* Contact factory for custom wattage or lumen requirement.

CONTROLS	
DUALSWT-WH	2-1 Dual wall switch,120v only, white finish [5] * Only with "MU050" driver.

WIRELESS SOLUTION [6]

LED Downlight		LED Uplight		SYSTEM		CRI		LED DRIVER		CONTROLS [5,6]	
(Blank)	No Downlight	**(Blank)**	No Uplight	**-3065K**	Tunable White 3000-6500K With wireless solution [4]	**(Blank)**	90+ CRI [18]	**CV24**	24VDC power supply	**MZ-TW**	4-zone RF remote, white finish
DLO	Low output, 11 W/ft, 1024 lm/ft	**ULO**	Low output, 6 W/ft, 512 lm/ft							**BLT**	Bluetooth / Smart-phone App
DHO	High output, 16.5 W/ft, 1536 lm/ft	**UHO**	High output, 12 W/ft, 1024 lm/ft					**2DMX**	2-channel DMX512 decoder	**(Blank)**	None
(Blank)	No Downlight	**(Blank)**	No Uplight	**-265K**	Tunable White 2000-6500K	**(Blank)**	80+ CRI	**(Blank)**	Bridgelux VESTA	**VWSC**	Bridgelux VESTA Wisilica Bluetooth
D18L	18W LED (734 lm/ft)	**/U18L**	18W LED (530 lm/ft)	**-275K**	Tunable White 2700-5000K	**C9**	90+ CRI [18]			**VWIZ**	Bridgelux VESTA WIZ-connected Wi-Fi
D27L	27W LED (924 lm/ft)	**/U27L**	27W LED (733 lm/ft)	**-CCK**	Tunable White custom CCT from 2000-6500K (Must specify the CCT range)					**VSVR**	Bridgelux VESTA Silvair Bluetooth Mesh
D36L	36W LED (991 lm/ft)									**VCAS**	Bridgelux VESTA Casambi Bluetooth Mesh
D48L	48W LED (1384 lm/ft)										
D54L	54W LED (1467 lm/ft)										

* Maximum wattage per 4ft section - pendant/wall mount : 75W (up & down light)
* Contact factory for custom wattage or lumen requirement.

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

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CUBE4-TW

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

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+.

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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>	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

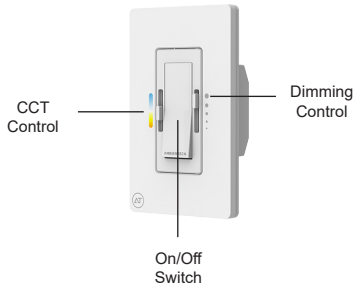
- 0-10V control protocol.
- Two channel control of color temperature and intensity.
- Compatible with industry standard 0-10V current sourcing or 10V current sinking wired control devices

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

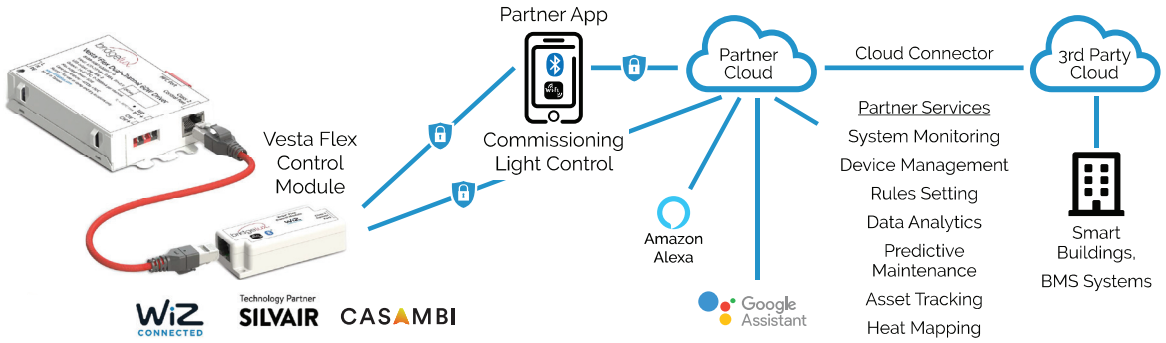
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CUBE4-TW

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



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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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.	-4ºF to 131ºF (-20ºC to 55ºC)
* 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, Scences
Bluetooth Distance	> 49ft in open area
Additional Feature	Home Management / Third party control -> Alexa, Google Assistant (by others)

2DMX

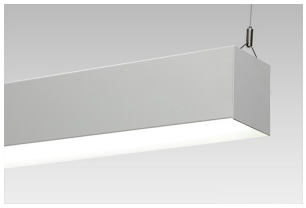


2DMX (2-channel DMX decoder)

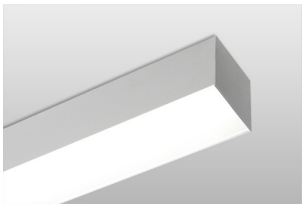
Dimensions	L 7" x W 1.8" x D 1.2"
Output Current	8A / channel
Input Voltage	12-24V DC
Output Power	384W @ 24V
Frequency	PWM

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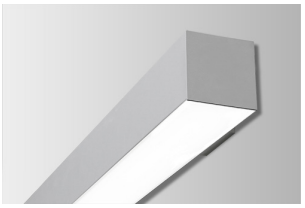
CUBE4-TW



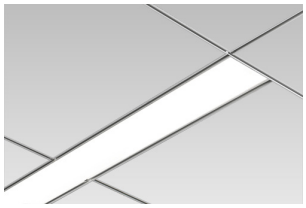
CABLE



SURFACE



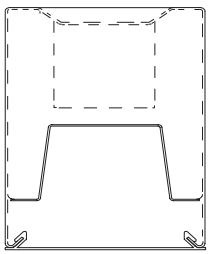
WALL



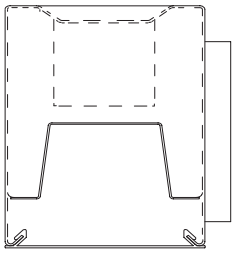
RECESSED

- MOUNTING DETAILS

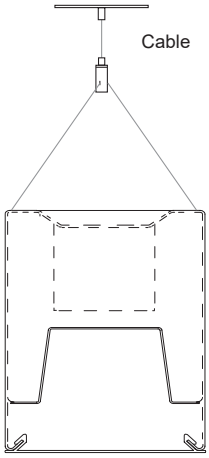
Surface



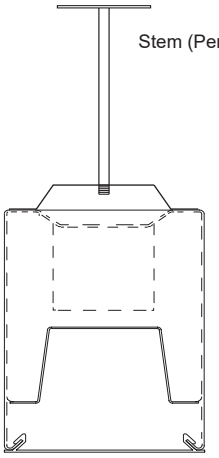
Wall



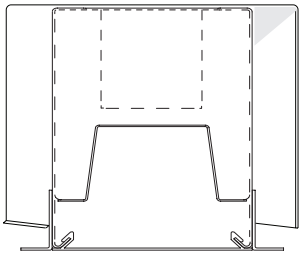
Cable



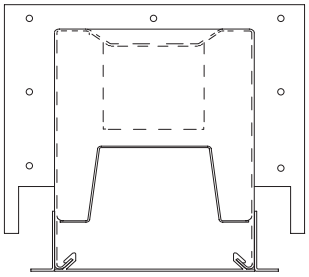
Stem (Pendent)



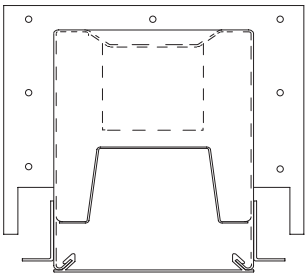
Drywall



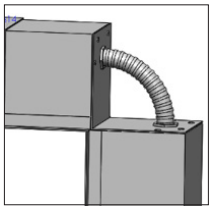
T-bar (G-1)



Screw Slot (SS)

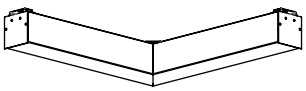


CW90



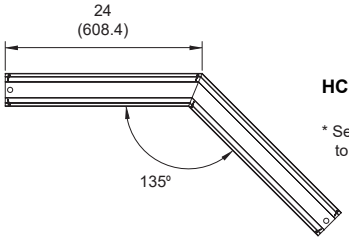
* See a separate CUBE4-Recessed spec sheet to find detail information.

- LIT CONNECTOR



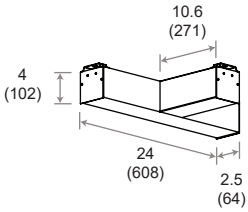
HC90-11
HC90-12
HC90-21
HC90-22

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

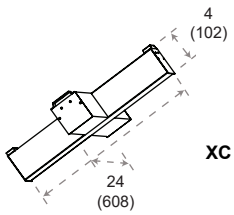


HC135-22

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



TC



XC

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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).

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