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.
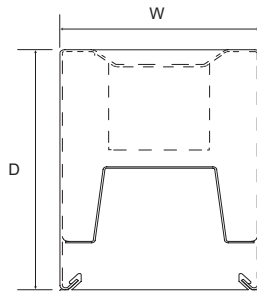
Specifications: CUBE4

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

UTOPIA LIGHTING reserves the right to change specifications, drawings, dimensions without prior notice. Visit our website for the latest product information.

ARCHITECTURAL TUNABLE WHITE LINEAR

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

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

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

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
				HC90-12	90º Horizontal Lit Connector, 1'x2' [12]	**STB**	Slip Through Bracket [17]
X2	Hard ceiling	**AC96**	Adjustable Aircraft Cable Canopy 96"L	**HC90-21**	90º Horizontal Lit Connector, 2'x1' [12]		
X3	Sloped Hard ceiling			**HC90-22**	90º Horizontal Lit Connector, 2'x2' [12]		
		ST24	Stem Canopy 24"L	**HC135-22**	135º Horizontal Lit Connector, 2'x2' [12]		
X4	9/16" T-bar ceiling	**ST48**	Stem Canopy 48"L	**TC**	T-Type Lit Connector [13]		
				XC	X-Type Lit Connector [13]		
		Contact factory for custom length. 1 pair (2 aircraft cables) standard for up to 8' length.		**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+.

UTOPIA LIGHTING

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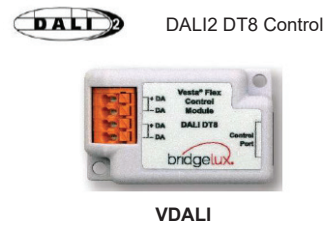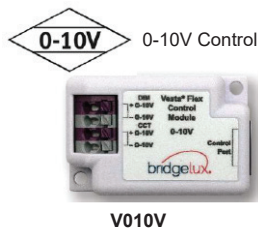
- 0-10V control protocol.
- Two channel control of color temperature and intensity.
- Compatible with industry standard 0-10V current sourcing or 10V current sinking wired control devices

 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 fixtures via any DALI2 certified controller.

CCT Control

Dimming Control

On/Off Switch

* Wall Plate included
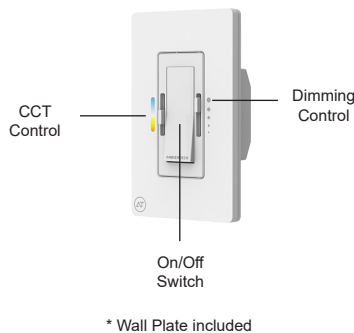
DUALSWT-WH

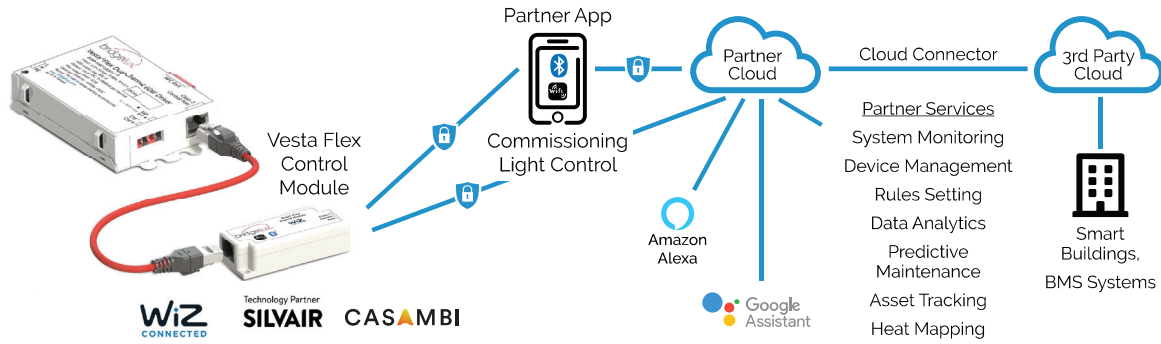| Input	120VAC, ~60Hz
Max Load	600W
Dimming Curve	Linear, PWM
Compatibility	eldoLED DUALdrive, Moon's 0-10V Dual Series
Features	Field adjustable low-end trim, Built-in Relay
UL listed	UL 1472 / CSA C22.2 184.1
FCC	Class B Part 15

Tunable White

Dimmable

DIMMER E507432

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)

Partner App

Vesta Flex Control Module

Commissioning Light Control

Partner Cloud

Cloud Connector

3rd Party Cloud

Partner Services
System Monitoring
Device Management
Rules Setting
Data Analytics
Predictive Maintenance
Asset Tracking
Heat Mapping

Amazon Alexa

Google Assistant

Smart Buildings, BMS Systems

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.

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.

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.

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.

UTOPIA LIGHTING

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

CUBE4-TW
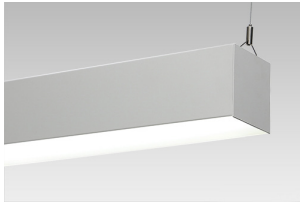
CABLE
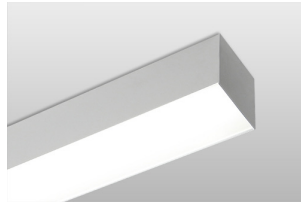
SURFACE
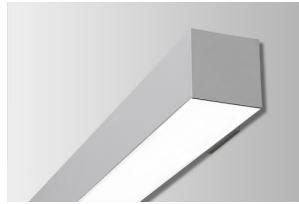
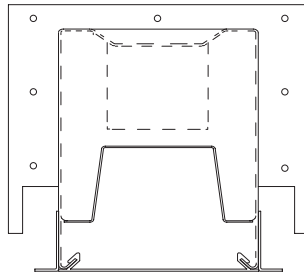WALL
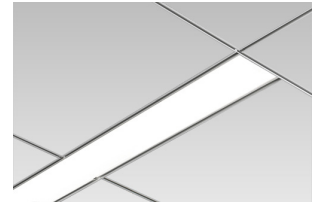
RECESSED

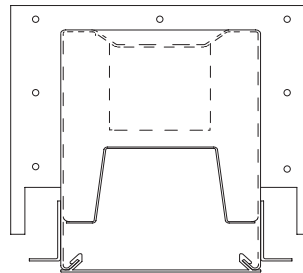## - MOUNTING DETAILS

Surface
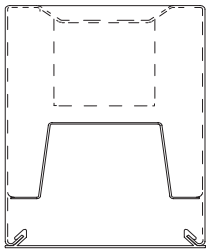
Wall
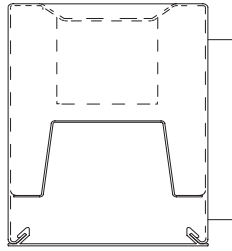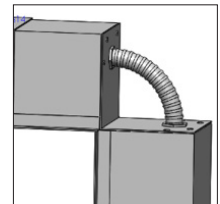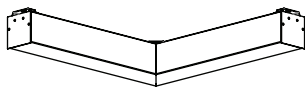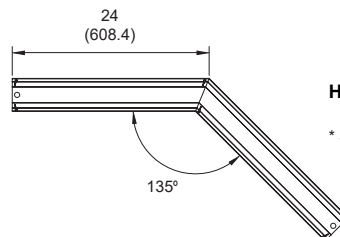

Cable
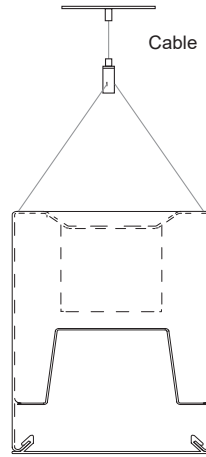
Stem (Pendent)
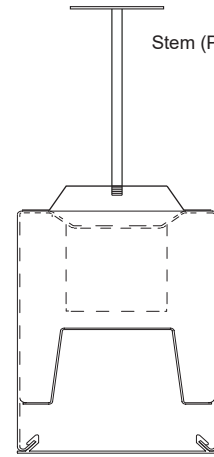
Drywall
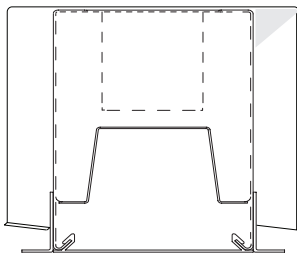
T-bar (G-1)

Screw Slot (SS)

CW90

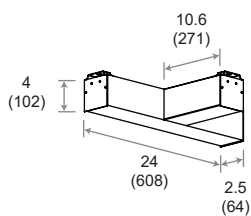* See a separate CUBE4-Recessed spec sheet to find detail information.

- LIT CONNECTOR
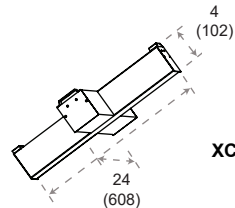

HC90-11
HC90-12
HC90-21
HC90-22

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

24
(608.4)

135º

HC135-22

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

10.6
(271)

4
(102)

24
(608)

2.5
(64)

TC

4
(102)

24
(608)

XC

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LIGHTING

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).