CUBE2-HEX

Project Name:	
Type:	

MOUNTING:
- Pendant, surface mount.

LED:
- High quality arrayLEDs.
- Color Temperature: 2700/3000/3500/4000/5000 (K)
- Color Rendering Index: >80 (optional>90).
- Nominal Lamp Life: 100,000 hours.
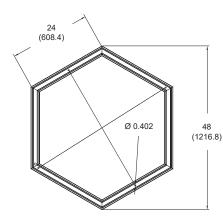- Reported L70 hours: +60,000 (55°C).

ELECTRICAL:
- High power factor electronic driver, operate from a 120 ~ 277 Vac input range, 50 / 60 Hz.
- Features included over voltage protection, surge, short circuit protection and over load protection.
- Power Factor: typical > 0.95, THD <20, meets Class1 or Class 2 circuit.
- 0-10V dimmable driver as standard.
- 0-10VDC dimming 1%~100%.
- Operating temperature: -4°F (-20°C) ~ 122°F (50°C).

- <ELCU-200>
- Guarantees emergency lighting remains ON or is turned on when power to the control device is lost.
- Interfaces with fire alarm panel or security system.
- "Watchdog" feature allows emergency loads to be controlled in tandem with normal power loads.
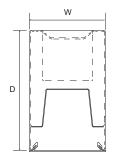- UL listed for use in emergency circuits.

FINISH:
- Standard powder-coat textured white painted 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)
- Assembled in USA (optional).
- BAA compliant (optional).
- 5 years limited warranty.
- 7 or 10 years limited warranty. (optional) [4]
- Bluetooth Mesh System available, please contact factory for more information.

APPLICATION
The CUBE2-HEX is a featured Architectural Shaped Linear fixture. Housing is formed by cold-rolled steel with a highly reflective dieformed white painted steel reflector. The snapin acrylic lens provides easy installation. It is used for multiple applications such as commercial, general office, banking, retail and educational environments.

24 (608.4)

Ø 0.402

48 (1216.8)

W

D

Specifications: CUBE2

Width: 2.5 (64)
Depth: 4 (101)

All dimensions are in inches (millimeters).

UTOPIA LIGHTING

CUBE2-HEX

CONFIGURATIONS
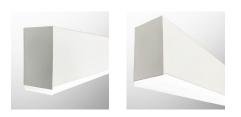
Series	Model #	AC Input	Fixture Lumen Output (4000K)		Lumen Efficiency (4000K)
CUBE2-HEX	D18L	59.4W	7682.76 lm (100% Down)	7682.76 lm	129.34 lm/W
	D27L	89.1W	9850 lm (100% Down)	9850 lm	110.55 lm/W
	D36L	118.4W	12734 lm (100% Down)	12734 lm	107.19 lm/W
	D48L	158.4W	16869.6 lm (100% Down)	16869.6 lm	106.5 lm/W
	D54L	178.2W	18878.5 lm (100% Down)	18878.5 lm	105.94 lm/W
	18L/18L	118.8W	7076.2 lm (57.6% Down) / 5208.9 lm (42.4% Up)	12285 lm	103.41 lm/W
	27L/18L	148.5W	9911 lm (63% Down) / 5821 lm (37% Up)	18432 lm	105.94 lm/W
	27L/27L	178.2W	10614 lm (57.6% Down) / 7813.3 lm (42.4% Up)	18427.3 lm	103.41 lm/W
	36L/18L	177.8W	12560 lm (65.5% Down) / 6615.8 lm (34.5% Up)	19175.8 lm	107.61 lm/W
	48L/18L	217.8W	14299 lm (64.6% Down) / 7835.7 lm (35.4% Up)	22134.7 lm	101.63 lm/W
	48L/27L	247.5W	14915 lm (59.3% Down) / 10237.8 lm (40.7% Up)	25152.8 lm	101.63 lm/W
	54L/18L	237.6W	17627.5 lm (73% Down) / 6519.7 lm (27% Up)	24147 lm	101.62 lm/W
	54L/27L	267.3W	18840 lm (65.5% Down) / 9924 lm (34.5% Up)	28764 lm	107.61 lm/W

	Multiplier		
CCT	3000K	3500K	5000K
Down only	0.9642	0.9822	1.0357
Up&Down	0.971	0.9856	1.029

OUTPUT CURRENT

		Bi-Level		Tri-Level (Default)	
SW1	SW2	Config Range	Default	Config Range	Default
Close	Open	10% - 70%	40%	10% - 70%	30%
Open	Close	10% - 70%	40%	10% - 70%	70%
Close	Close	100%	100%	100%	100%
Open	Open	0%	0%	0%	0%

DROP LENS

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

2

CUBE2-HEX

ORDERING INFORMATION

EXAMPLE: *CUBE2-HEX-D27L-40K-UNV*

MODEL	SHAPE	LED Downlight		LED Uplight [1]		COLOR TEMP.	
CUBE2	HEX Hexagon shape	**(Blank)**	No Downlight [21]	**(Blank)**	No Uplight	**(Blank)**	Leave blank if you wish to have different CCT for up and down, and fill out next section
		D18L	18W LED	**/U18L**	18W LED	**-27K**	2700K [22]
		D27L	27W LED	**/U27L**	27W LED	**-30K**	3000K
		D36L	36W LED			**-35K**	3500K
		D48L	48W LED			**-40K**	4000K
		D54L	54W LED			**-50K**	5000K
		*Maximum wattage per HEX - 267.3W (up & down light). * Contact factory for custom wattage or lumen requirement.					

SEPARATE CCT.		CRI		MOUNTING		VOLTAGE		EM SECTION [2]	
(Blank)	Leave blank if you chose to have the same CCT for up and down in the previous section	**(Blank)**	80+ CRI	**(Blank)**	Pendant	**UNV**	120-277V	**(Blank)**	None EM
DXXUYY	Indicate 27,30,35,40, or 50 for XX and YY (D represents Downlight, U represents Uplight)	**C9**	90+ CRI [8]	**S**	Ceiling Surface	**120**	120V	**1SE**	1 Section
						277	277V	**2SE**	2 Section
						347	347V [12]	**xSE**	x Section

FIXTURE FINISH [9]		CORD FINISH (for pendant)		CANOPY FINISH (for pendant)		CEILING TYPE (for pendant)		SUSPENSION LENGTH (for pendant)	
(Blank)	Matte White RAL #9003 (Std.)	**(Blank)**	White (Std.)	**(Blank)**	White (Std.)	**X1**	15/16" grid T-bar ceiling	**AC48**	Adjustable Aircraft Cable Canopy 48"L
***BK**	Black RAL #9011	***BKC**	Black	***BC**	Black Canopy	**X2**	Hard ceiling	**AC96**	Adjustable Aircraft Cable Canopy 96"L
***SV**	Silver (RAL #9022)			***SC**	Silver Canopy	**X3**	Sloped Hard ceiling	**ST24**	Stem Canopy 24"L
****CC**	Custom Color [10]			****CSS**	Custom Canopy Color (White is Std.)	**X4**	9/16" T-bar ceiling	**ST48**	Stem Canopy 48"L
***AMB**	Anti-Microbial Coating (Matte Skye White)							*Contact factory for custom length. 1 pair (2 aircraft cables) standard for up to 8' length.	
*Non-standard finish with extra charge. ** Additional charge & set up fee.									

LED DRIVER		OPTIONS	
(Blank)	0-10V dim to 1% (Std.) (dim both uplight and downlight simultaneously)	**EMG8**	1296 LUMEN EM Battery Backup (CEC Compliant EM) [6, 20]
UDSD	Separate Dimming Control of Uplight and Downlight (0-10V dim to 1%) [3, 11]	**EMG15**	2430 LUMEN EM Battery Backup (CEC Compliant EM) [6, 20]
SP	Separate Power Control for Uplight and Downlight	**EMG20**	3240 LUMEN EM Battery Backup (CEC Compliant EM) [6, 20]
ES566	eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim	**EMG25**	4050 LUMEN EM Battery Backup (CEC Compliant EM) [6, 20]
SD40	40% / 100% Bi-Level Step dim	**ELCU-200**	Fail-to-on Emergency lighting, UL924 [7]
SDXX	XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%)	**GTD**	Bodine Generator Transfer Device
PHSR	Philips Xitanium Sensor-Ready, Dali 5%~100% dim.	**GTD10DIM**	Bodine Generator Transfer Device (0-10VDC Dimmer Override)
PHDL	Philips Xitanium DALI driver, Dim to 5%	**F1**	Single Fuse [13]
ED560	eldoLED LightShape DALI dim to dark, 0.1% ~ 100%	**F2**	Double Fuse [13]
TDM	Triac Dim. (120V only)	**ARRA**	Assembled in USA for Buy American Act
TD30/70	30% / 70% / 100% Tri-Level Step dim	**BAA**	BAA(Buy American Act) and BABA(Build America Buy America) compliant
TDXX/YY	XX% / YY% / 100% Tri-Level Step dim (Specify XX, YY : 10%~70%)	**O7W**	Optional 7 Years Limited Warranty [4]
LDE1	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim	**O10W**	Optional 10 Years Limited Warranty [4]
ELV	ELV compatible (reverse-phase or trailing-edge), (120V only)	**COC**	Separated EM feed for City of Chicago code compliance
TRIOT	Tridonic IoT ready, 1-100% dim via Smart Module Interface (SMI), automated dimming/lighting controls via Enlighted Sensor Interface	**UPC**	Indirect Light Cover
		DROP	1/2" drop lens
DTO	0-10V DIM-TO-OFF	**E1F**	End feed on one end (Pre-drilled hole for 1/2" fitting)
DMX	DMX512 control system (Only available with RGB+W option)	**E2F**	End feed on both ends (Pre-drilled holes for 1/2" fitting)
DLM	Wattstopper's DLM interface (Only available with RGB+W option)		
LTEA2W	Hi-lume 1% 2-wire LED driver (120V forward phase only) [19]		
✫ **BLT**	Bluetooth Mesh System (contact factory for more information)		

CUBE2-HEX

CONTROLS

AMS	**\<Integrated Sensors\> WALL MOUNT DOES NOT APPLY** Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming
DPMS	Daylight Dimming Photo Sensor (0-10 VDC Control), (LSR-301-S required if FD-301 is installed) [28]
SO	Dimming Wires connected to Sensor Only (available option on FS-205 non-Bluetooth AMS sensor only) [5]
LSR-301-S	Setup Remote Control for DPMS (Required for DPMS)
LSR-301-P	Occupant Remote Control for DPMS
	\<Ceiling / Wall mount Sensors\> [14]
LOS-502S-x-y	PIR occupancy sensor, no dimming support, 120-277V, adjustable with DIP switch (See note 15, 17 to select mounting type "x" and lens "y")
LOD-500S-x-y	Bi-level 0-10V occupancy sensor, 120-277V, adjustable with DIP switch (See note 15, 18 to select mounting type "x" and lens "y")
BED-500S-x	Daylight sensor for daylight harvesting control, 0-10V high/low dim or SmartDim control, 120-277V, controlled with IR remote programmer. (See note 16 to select mounting type "x")
RS-LRD	IR remote programmer for LRD-509S, BED-500S series
LBS-700N	On/Off occupancy and vacancy sensor, line voltage, 120-277V, adjustable via DIP switch
LDD-700S	Dual-tech bi-level wall switch occupancy sensor (PIR & HFD), line voltage with 1-pole SLV for on/off switching and 0-10V for manual dimming, 120-277V, adjustable via DIP switch

LIGHTING CONTROL SYSTEM

LUTRON VIVE	**\<Lutron Vive System Enabled\>** Vive *by LUTRON* **Click Here!**	**SU-5E-IoT**	**\<Enlighted\>** Enlighted IoT-Ready Indoor Micro sensor with occupancy/vacancy detection, daylight harvesting, thermal sensing, task tuning, and room and zone control, Bluetooth enabled [25, 26]
		SU-5E-CL	Enlighted Indoor Micro sensor with occupancy/vacancy detection, daylight harvesting, thermal sensing, task tuning, and room and zone control, Bluetooth enabled (Connected lighting sensor only)
SNS200	**\<EasySense\>** EasySense Fixture-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) [23, 24]	**RS-WS**	Enlighted Room controller providing basic control functions of a standard wall switch with preset dimming capability
SNS200C	EasySense Ceiling-mount occupancy sensing, daylight harvesting and task tuning in one device [24, 25]	**TMC-SU-5E**	Tile Mount Carrier [27]
RS-IR	IR dongle v2.0 for EasySense control	**30N**	30in extension cable
		7F	7ft extension cable
			\<Elite Control\>
		ELIOP-SR	Bluetooth wireless PIR occupancy sensor with built-in daylight harvesting, short range
		ELIOP-LR	Bluetooth wireless PIR occupancy sensor with built-in daylight harvesting, long range
		SR-W	Bluetooth wireless single rocker pad, white finish
		DR-W	Bluetooth wireless double rocker pad, white finish

NOTES:
1. Pendant, wall mount only.
2. EM is installed in last 4' of luminaire sections. Separate section required 2SE or specified. Must specify voltage, not available with 347V.
3. For separate dimming control, please be advised it may not be available when EM battery backup is added due to limited space. Please contact us for more information.
4. This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation.
5. Dimming wires provided and connected to sensor only, not for dimmer switch.(available with AMS and DPMS option)
6. Contact factory for other emergency ballast options.
7. Shipped separately.
8. Lumen per watt is around 15% less than standard CRI (80+).
9. Cord is available in white or black. (Black is not available for the EM option)
10. Refer to color charts (RAL and/or Cardinal) in the separate attachment.
11. Can have up to 2 power feeds depending on the configuration.
12. 347V cannot work with Emergency Battery Backup.
13. Must specify voltage, not available with 347V.
14. Wall mounted fixture MUST choose the sensor from the following list. Shipped separately.
15. "x" = S : Ceiling Surface
    C : Junction Box
16. "x" = S : Ceiling Surface
    C : Junction Box
    R : Ceiling Recess
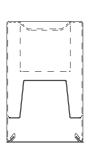17. "y" = A : Standard cone shape Lens @ 15' height (up to 2x height coverage)
    B : Extra wide cone shape Lens @ 10' height (up to 6X height coverage)
    C : High bay cone shape Lens @ 30' height (up to 3X height coverage)
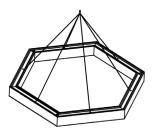   D : Standard round shape Lens @ 20' height (up to 2X height coverage)
    F : Extra wide dome shape Lens @ 20' height (up to 4X height coverage)
    G : Aisle way arch shape Lens @ 40' height (up to 3X height coverage)
    H : High bay dome shape Lens @ 50' height (up to 1X height coverage)
18. "y" = A : Standard cone shape Lens @ 15' height (up to 2x height coverage)
    B : Extra wide cone shape Lens @ 10' height (up to 6X height coverage)
    C : High bay cone shape Lens @ 30' height (up to 3X height coverage)
    D : Standard round shape Lens @ 20' height (up to 2X height coverage)
    F : Extra wide dome shape Lens @ 20' height (up to 4X height coverage)
    G : Aisle way arch shape Lens @ 40' height (up to 3X height coverage)vb

19. Not available with any 1ft individual configuration due to space limitations.
20. For 3ft configuration, EM can only be remote mounted. Remote box is provided by others.
21. Downlight cover may ship separately depending on the configuration.
22. Available with C9 (CRI 90+) only.
23. See NFC and IR manual in the separate attachment.
    If your phone is not compatible, please order "RS-IR" and follow the manual.
24. Refer to Advanced Grouping Datasheet for its default setting and compatible wireless switches.
25. "RS-WS" option can be added if wish to have a wall switch,
    please see Enlighted Room Controller in the separate attachment.
26. Must be ordered either with 0-10V LED driver or TRIOT (IoT-Ready LED driver).
27. Must be ordered for wall mount.
28. Automatic on/off is not available. For automatic on/off, additional occupancy sensor is required or a manual on/off switch can be done.
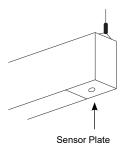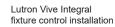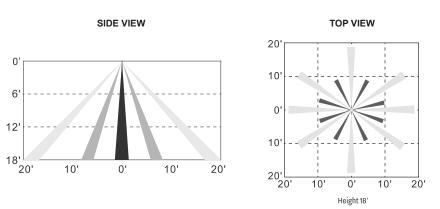
CUBE2-HEX

- MOUNTING DETAILS

Surface

CABLE

Sensor Plate

Lutron Vive Integral
fixture control installation

EasySense
fixture-mount installation

SIDE VIEW

TOP VIEW

Height 18'

AMS coverage pattern

CUBE2-HEX

COMPATIBLE DIMMER SWITCH (TABLE 1)

Model #	Brand		Compatible Dimmer Switch
(Blank)	-	<Leviton>	IllumaTech IP7 series
		<Lutron>	Visit www.lutron.com/advance for a list of dimmers (Mark VII) that will work with this driver.
		<Philips>	Sunrise : SR1200ZTUNV
ES566	eldoLED SOLOdrive	<Busch-Jaeger>	2112U-101
		<Jung>	240-10
		<Leviton>	IllumaTech - IP710-DLX
		<Lightoller Controls>	ZP600FAM120
		<Merten>	5729
		<Pass & Seymour>	CD4FB-W
		<Wattstopper>	DCLV1
		<Sensor Switch>	nIO EZ
		<Synergy>	ISD BC
		<ABB>	SD/S 2.16.1
		<Lutron>	Nova T: NTFTV Diva - DVTV-xx, NFTV GRAFIK Eye: GRX-TVI w GRX3503 Energy Savr Node: QSN-4T16-S TVM2 Module
		<Crestron>	GLX-DIMFLV8, GLXP-DIMFLV8, GLPAC-DIMFLV4-*, GLPAC-DIMFLVV8-*, GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, DIN-AO8, DIN-4DIMFLV4, CLS-EXP-DIMFLV, CLCI-1DIMFLV2EX
ED560	eldoLED DUALdrive	<Lunatone>	SS-LUNAT PS2 30mA, SS-LUNAT Touch or BT, SS-LUNAT Comm
LDE1	Lutron Hi-lume 1% EcoSystem	<Lutron>	PowPak Dimming Modules: RMJ-ECO32-DV-B, FCJ/FCJS-ECO [1,2] Energi Savr Node (120V only): QSN-1EC0-S, QSN-2ECO-S GRAFIK Eye QS/Homeworks QS control unit (120V only): QSGRJ-_E(wireless) QSGR-_E Quantum Hub (120V only): QP2-_ _2C/4C/6C/8C Homeworks QS/myRoom Plus power module (120V only): LQSE-2ECO-D
PHSR [3]	Philips Xitanium Sensor-Ready	<Illumra>	Single Rocker Self-Powered Light Switch (on/off, dim-up/down) Illumra# ZBT-S1AWH Digi-Key# 1082-1033-ND Dual Rocker Self-Powered Light Switch (on/off, dim-up/down, scene1,2) Illumra# ZBT-S2AWH Digi-Key# 1082-1034-ND
TDM	KEYSTONE	<Lutron>	Diva DV-600P, SkyLark S-600P, Ariadni AY-600P, Ariadni TG-603P, Maestro MA-600 (Digital), Diva CFL/LED DVCL-153P, Satin Colors DVSC-600P-SW
		<Leviton>	6641, IllumaTech IPI06-1LX, ToggleTouch TGI06-1LW (Digital)
ELV	KEYSTONE	<Lutron>	MAELV-600BL (Digital), DVELV-300P, SkyLark SELV-300P
DTO	Philips Xitanium Gen.2 Philips Xitanium Sensor-Ready	<Lutron>	Nova T: #NTSTV-DV http://www.lutron.com/TechnicalDocumentLibrary/NovaTB.pdf See page13.
LTEA2W	Lutron Hi-lume 2-wire (120V forward voltage only)	<Lutron>	Visit http://www.lutron.com/TechnicalDocumentLibrary/369543_ENG.pdf for a list of compatible dimmer switches.

NOTES:
1. All devices connected to one FCJ/FCJS-ECO will be controlled together. Devices will dim to the same level as the result of a control command.
   For more detail on adjusting low-end light level refer to Application Note#556 at www.lutron.com.
2. For the Line/Hot (L/H) terminal on the driver, it is preferred not to use the switched hot (red) wire from the control but rather the hot wire directly from the power source.
3. Recommended for EasySense System.