CUBE1-SQ

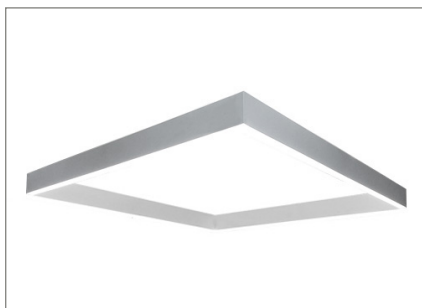| Project Name:	
Type:	

APPLICATION
The lit connector system allows continuous illumination all the way through the corner selection. The CUBE1-SQ enables to create variety designs using CUBE1 series combined with the HC90 lit connector. It is suitable for multiple applications such as commercial, general office, banking, retails, and educational environments.

FEATURES:
- Extruded aluminum housing with die-cast aluminum end caps.
- Standard powder-coat textured white finish.
- A remote box may be provided up to 2'x2' for pendant/surface, and 3'x3' for all recessed depending on the configuration.

MOUNTING:
- Pendant, surface mount.
- Recessed mount, cmpatible with T-Bar and drywall ceiling.

LED:
- High quality array LEDs.
- IES LM80 tested.
- 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 dimming with 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.

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).
- 5 years limited warranty.
- 7 or 10 years limited warranty (optional). [14]

CONFIGURATIONS (Based on per 4')

Series	Model #	AC Input	Fixture Lumen Output		Lumen Efficiency
CUBE1	D9L	9.9W	1089 lm (100% Down)	1089 lm	110 lm/W
	D18L	19.9W	2178 lm (100% Down)	2178 lm	
	D27L	14.85W	3267 lm (100% Down)	3267 lm	
	D36L	39.6W	4356 lm (100% Down)	4356 lm	
	D9L/U9L	9.9W	1089 lm (57.6% Down) / 801 lm (42.4% Up)	1890 lm	103.41 lm/W
	D18L/U18L	19.8W	2178 lm (57.6% Down) / 1603 lm (42.4% Up)	3781 lm	
	D27L/U18L	24.75W	3267 lm (65.5% Down) / 1720 lm (34.5% Up)	4987 lm	101.63 lm/W
	D36L/U27L	34.6W	4356 lm (65.5% Down) / 2294 lm (34.5% Up)	6650 lm	

* For other sizes, lumen output must be calculated based on 4'.

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

2'   3' (CUBE1-3)

2'

7' (27L) : 3267 lm (4') + 2450 lm (3267 x (3/4')) = 5717 lm

1   www.utopialightingus.com   UTOPIA LIGHTING reserves the right to change specifications, drawings, dimensions without prior notice.

UTOPIA LIGHTING

CUBE1-SQ

Sample Ordering Guideline

* Minimum dimension X'-Y' (width by length) should be 2' - 2'.
* Must be measured from center point.
* Utopia Lighting will decide the optimal fixture combination unless otherwise specified in the drawing.
* For custom designs (CUBE1-CM), please provide sketch(es) in the last page.

ORDERING INFORMATION

EXAMPLE: CUBE1-SQ-4'-4'-D27L/U18L-30K-FT-UNV-STB

MODEL	DIMENSION		LED Downlight (per/4ft section)		LED Uplight [1] (per/4ft section)		Uplight DISTRIBUTION [2]		COLOR TEMP.	
CUBE1-SQ	X'-Y'	Specify dimension in inches. (Minimum required dimension is 2'-2')	**D9L** **D18L** **D27L** **D36L**	9W LED 18W LED 27W LED 36W LED	**(Blank)** **/U9L** **/U18L** **/U27L**	No Uplight 9W LED 18W LED 27W LED	**(Blank)** **UN15** **UN30** **UM** **UASY** **UBAT** **UPC**	No optic Uplight Narrow 15º Uplight Narrow 30º Uplight Medium 60º Uplight Asymmetric 20º [19] Uplight Batwing 120º Non-optic clear cover	**(Blank)** **-27K** **-30K** **-35K** **-40K** **-50K**	Leave blank if you wish to have different CCT for up and down, and fill out next section. 2700K [3] 3000K 3500K 4000K 5000K
CUBE1-CM	X'-Y'	Please provide drawing in the last page. (Minimum required dimension is 2'-2')		* Maximum wattage per 4ft section - pendant/wall mount : 63W(up & down light) - recessed mount : 36W(down light) * Contact factory for custom wattage or lumen requirement.						

SEPARATE CCT.		CRI		MOUNTING		VOLTAGE	
(Blank) **DXXUYY**	Leave blank if you chose to have the same CCT for up and down in the previous section. Indicate 27,30,35,40, or 50 for XX and YY (D represents Downlight, U represents Uplight)	**(Blank)** **C9**	80+ (Std.) 90+ CRI [4]	**(Blank)** **S** **FT** **G1**	Pendant Ceiling Surface Standard 1/2" Flange (drywall) [5, 6] 9/16", 15/16", 1" T-bar Ceiling Grid [7]	**UNV** **120** **277** **347**	120-277V 120V 277V 347V [8]

EM SECTION [9]		FIXTURE FINISH		CORD FINISH [18] (for pendant)		CANOPY FINISH (for pendant)		CEILING TYPE (for pendant)	
(Blank) **1SE** **2SE** **xSE**	None EM 1 Section 2 Section x Section	**(Blank)** ***BK** ***SV** ****CC** ***AMB**	Matte White RAL #9003 (Std.) Black RAL #9011 Silver (RAL #9022) Custom Color [17] Anti-Microbial Coating (Matte Skye White)	**(Blank)** ***BKC**	White (Std.) Black	**(Blank)** ***BC** ***SC** ****CSS**	White (Std.) Black Canopy Silver Canopy Custom Canopy Color (White is Std.)	**X1** **X2** **X3** **X4**	15/16" grid T-bar ceiling Hard ceiling Sloped Hard ceiling 9/16" T-bar ceiling
					* Non-standard finish with extra charge. ** Additional charge & set up fee.				

SUSPENSION LENGTH (for pendant)		LED DRIVER	
AC48 **AC96** **ST24** **ST48**	Adjustable Aircraft Cable Canopy 48"L Adjustable Aircraft Cable Canopy 96"L Stem Canopy 24"L Stem Canopy 48"L * Contact factory for custom length. 1 aircraft cable standard for each joint.	**(Blank)** **UDSD** **SP** **SD40** **SDXX** **TDM** **TD30/70** **TDXX/YY** **ELV** **ED560** **EC** **ES566** **LDE1** **PHSR** **PHDL** **TRIOT** **DTO**	0-10V dim to 1% (Std.) (dim both uplight and downlight simultaneously) Separate Dimming Control of Uplight and Downlight (0-10V dim to 1%) [4, 16] Separate Power Control for Uplight and Downlight 40% / 100% Bi-Level Step dim XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%) Triac Dim. (120V only) 30% / 70% / 100% Tri-Level Step dim XX% / YY% / 100% Tri-Level Step dim (Specify XX, YY : 10% ~ 70%) ELV compatible (reverse-phase or trailing-edge), (120V only) eldoLED LightShape DALI dim to dark, 0.1% ~ 100% eldoLED ECOdrive 0-10V natural dim to 1% (Hybrid HydraDrive) eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim Philips Xitanium Sensor-Ready, Dali 5%~100% dim. Philips Xitanium DALI driver, Dim to 5% Tridonic IoT ready, 1-100% dim via Smart Module Interface (SMI), automated dimming/lighting controls via Enlighted Sensor Interface 0-10V DIM-TO-OFF
		✆ **BLT**	Bluetooth Mesh System (contact factory for more information)

UTOPIA LIGHTING

CUBE1-SQ

OPTIONS

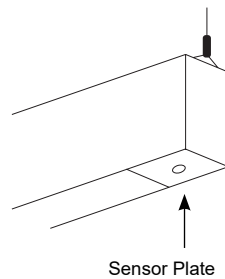|			
EMG8	1296 LUMEN EM Battery Backup (CEC Compliant EM) [10, 11, 12]	**AMS**	Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming
EMG15	2430 LUMEN EM Battery Backup (CEC Compliant EM) [10, 11, 12]	**DPMS**	Daylight Dimming Photo Sensor (0-10 VDC Control), (LSR-301-S required if FD-301 is installed) [16]
EMG20	3240 LUMEN EM Battery Backup (CEC Compliant EM) [10, 11, 12]	**LSR-301-S**	Setup Remote Control for DPMS (Required for DPMS)
EMG25	4050 LUMEN EM Battery Backup (CEC Compliant EM) [10, 11, 12]	**LSR-301-P**	Occupant Remote Control for DPMS
STB	Slip Through Bracket [15]	**O7W**	Optional 7 Years Limited Warranty [14]
F1	Single fuse for 120/277/347V	**O10W**	Optional 10 Years Limited Warranty [14]
F2	Double fuse for 208/240V	**ARRA**	Assembled in USA for Buy American Act
ELCU-200	Fail-to-on Emergency lighting, UL924 [13]	**BAA**	BAA(Buy American Act) and BABA(Build America Buy America) compliant

NOTES:
1. Pendant mount only.
2. Pendant and Surface mount only.
3. Lumen per watt is about 15% less than standard CRI 80+.
4. Available with C9 (CRI 90+) only.
5. Compatible with hard ceiling type.
6. Must be ordered with STB from the option.
7. Compatible with T-bar ceiling type.
8. Not available with EM.
9. EM is installed in last 4' of luminaire section. Separate section required must specify 2SE or xSE. Must specify voltage, not available with 347V.
10. Contact factory for other emergency ballast options.
11. Must specify voltage 120/277V, not available with 347V.
12. Integrated installation may not be available with 2ft & 3ft luminaire due to limited space. Can be remote mounted.
13. Shipped separately.
14. This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation.
15. Required for FT mounting type.
16. Automatic on/off is not available. Additional occupancy sensor is required or a manual on/off switch can be done.
17. Refer to color charts (RAL and/or Cardinal) in the separate attachment.
18. Black cord is not available with EM option.
19. Standard optic illuminates the wall. Optics can be field modified (reversed) to illuminate room.
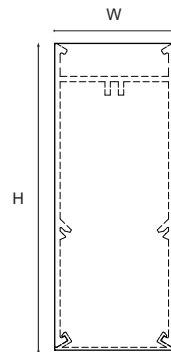
Specifications: CUBE1
Width: 1.75 (44.5)
Height: 4.5 (114.3)

* All dimensions are in inches (millimeters).

Sensor Plate

CUBE1-SQ

COMPATIBLE DIMMER SWITCH (TABLE 1)

| Model #	Brand	Compatible Dimmer Switch	
(Blank)	-	<Leviton>	IP710-LFZ
		<Lutron>	Visit www.lutron.com/advance for a list of dimmers (Mark VII) that will work with this driver.
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
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>	<u>Single Rocker Self-Powered Light Switch (on/off, dim-up/down)</u> Illumra# ZBT-S1AWH Digi-Key# 1082-1033-ND <u>Dual Rocker Self-Powered Light Switch (on/off, dim-up/down, scene1,2)</u> 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.

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.
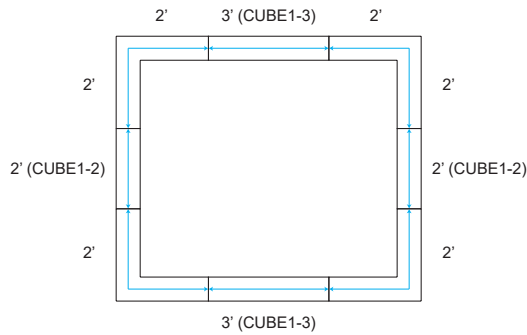3. Recommended for EasySense System.

CUBE1-SQ

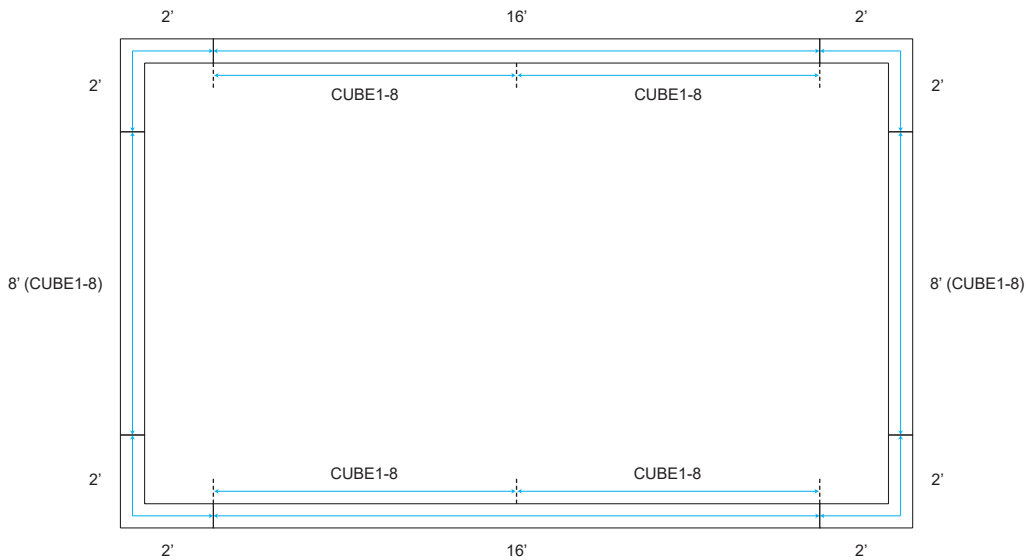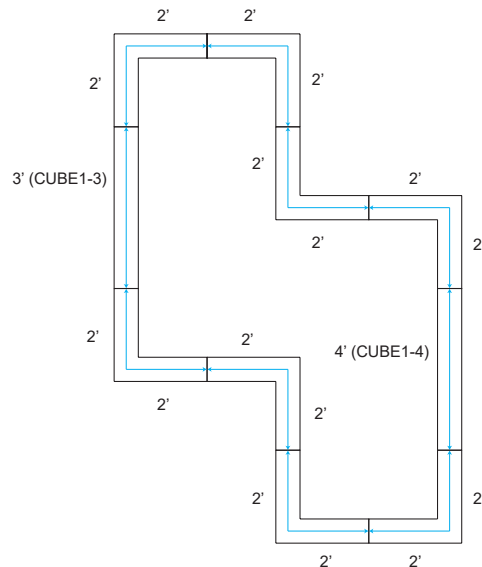**MODEL# CUBE-SQ examples (Measurement from center point)**
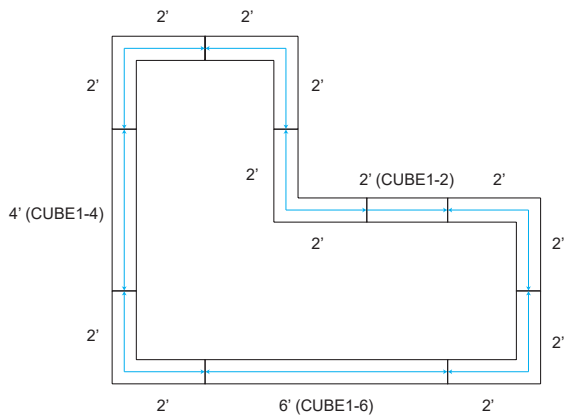
4' - 4'
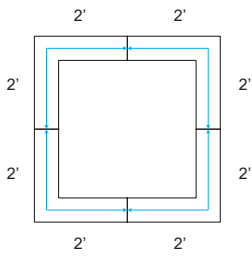
6' - 7'

12' - 20'

MODEL# CUBE-CM examples (Measurement from center point)

ARCHITECTURAL LED DESIGN

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, center dimension).