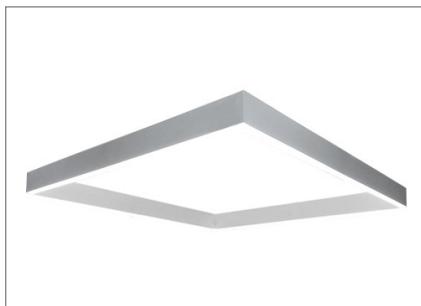


CUBE1-SQ



CASAMBI

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, compatible 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.
- BAA compliant (optional).
- BABA compliant (optional).
- Trade Agreements Act compliant (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)	110 lm/W
	D18L	19.9W	2178 lm (100% Down)	103.41 lm/W
	D27L	14.85W	3267 lm (100% Down)	
	D36L	39.6W	4356 lm (100% Down)	
CUBE1	D9L/U9L	9.9W	1089 lm (57.6% Down) / 801 lm (42.4% Up)	1890 lm
	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
	D36L/U27L	34.6W	4356 lm (65.5% Down) / 2294 lm (34.5% Up)	6650 lm

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

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



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-UNV-X2-AC48

MODEL	DIMENSION		LED Downlight (per/4ft section)		LED Uplight ¹ (per/4ft section)		Uplight DISTRIBUTION ²	
CUBE1-SQ (Square)	X'-Y'	Specify dimension in inches. (Minimum required dimension is 2'-2')	D9L	9W LED (272 lm/ft)	(Blank)	No Uplight	(Blank)	No optic
			D18L	18W LED (544 lm/ft)	/U9L	9W LED (272 lm/ft)	UN15	Uplight Narrow 15°
			D27L	27W LED (816 lm/ft)	/U18L	18W LED (544 lm/ft)	UN30	Uplight Narrow 30°
			D36L	36W LED (1089 lm/ft)	/U27L	27W LED (816 lm/ft)	UM	Uplight Medium 60°
			Dxx	Custom lumen or watt, ____ LM or ____ W.	/Uxx	Custom lumen or watt, ____ LM or ____ W.	UASY	Uplight Asymmetric 20° ¹⁹
CUBE1-CM (Custom shape)	X'-Y'	Please provide drawing in the last page. (Minimum required dimension is 2'-2')					UBAT	Uplight Batwing 120°
				* Max up to 1089lm/ft or 9W/ft. * with TDM/ELV: offered to closest lm or W.		* Max up to 816lm/ft or 6.75W/ft * with TDM/ELV: offered to closest lm or W.	UPC	Non-optic frosted cover

COLOR TEMP.			SEPARATE CCT.			CRI		MOUNTING	
(Blank)	Leave blank to have different CCT for up and down, and fill out next section. 2700K ³ 3000K 3500K 4000K 5000K	(Blank)	DXXUY	Leave blank 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)	80+ (Std.) 90+ CRI ⁴	(Blank)	Pendant S Ceiling Surface FT Standard 1/2" Flange (drywall) ^{5,6} 9/16", 15/16", 1" T-bar Ceiling Grid ⁷	G1

VOLTAGE		EM SECTION ⁹		Fixture Finish		CORD FINISH (for pendant)		CANOPY FINISH (for pendant)	
UNV 120 277 347	120-277V 120V 277V 347V ⁸	(Blank)	None EM 1SE 2SE xSE	(Blank)	Matte White RAL #9003 (Std.) Black RAL #9011 Silver (RAL #9022) Custom Color ¹⁷ *AMB Anti-Microbial Coating (Matte Skye White)	(Blank)	White (Std.) Black ¹⁸	(Blank)	White (Std.) Black Canopy Silver Canopy **CSS Custom Canopy Color (White is Std.)

* Non-standard finish with extra charge.

** Additional charge & set up fee.

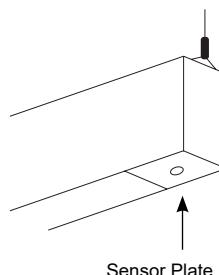
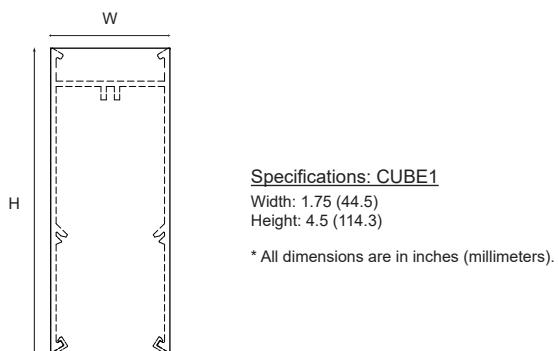
CEILING TYPE (for pendant)		SUSPENSION LENGTH (for pendant)		LED DRIVER					
X1 X2 X3 X4 X5	15/16" grid T-bar ceiling Hard ceiling Sloped Hard ceiling 9/16" T-bar ceiling 9/16" Screw Slot ceiling	AC48 AC96 ST24 ST48	Adjustable Aircraft Cable Canopy 48'L Adjustable Aircraft Cable Canopy 96'L Stem Canopy 24'L Stem Canopy 48'L * Contact factory for custom length. * 1 aircraft cable standard for each joint. * add "FC" at the end of stem length for field cuttable stem kit (Ex ST48FC)	(Blank)	0-10V dim to 1% (Std.) (dim both uplight and downlight simultaneously)	UDSD	Separate Dimming Control of Uplight and Downlight (0-10V dim to 1%) ^{4,16}	SP	Separate Power Control for Uplight and Downlight
				SD40	40% / 100% Bi-Level Step dim	SDXX	XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%)	TDM	Triac Dim. (120V only)
				TD30/70	30% / 70% / 100% Tri-Level Step dim	TDXX/YY	XX% / YY% / 100% Tri-Level Step dim (Specify XX, YY : 10% ~ 70%)	ELV	ELV compatible (reverse-phase or trailing-edge), (120V only)
				ED560	elidoLED LightShape DALI dim to dark, 0.1% ~ 100%	EC	elidoLED ECOdrive 0-10V natural dim to 1% (Hybrid HydraDrive)	ES566	elidoLED SOLodrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim
				LDE1	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim	PHSR	Philips Xitanium Sensor-Ready, Dali 5%~100% dim.	PHDL	Philips Xitanium DALI driver, Dim to 5%
				TRIOT	Tridonic IoT ready, 1-100% dim via Smart Module Interface (SMI), automated dimming/lighting controls via Enlighted Sensor Interface	DTO	0-10V DIM-TO-OFF		
				BLT	Bluetooth Mesh System (contact factory for more information)				

CUBE1-SQ

OPTIONS	
EMG8 1296 LUMEN EM Battery Backup (CEC Compliant EM) ^{10, 11, 12} EMG15 2430 LUMEN EM Battery Backup (CEC Compliant EM) ^{10, 11, 12} EMG20 3240 LUMEN EM Battery Backup (CEC Compliant EM) ^{10, 11, 12} EMG25 4050 LUMEN EM Battery Backup (CEC Compliant EM) ^{10, 11, 12} STB Slip Through Bracket ¹⁵ F1 Single fuse for 120/277/347V F2 Double fuse for 208/240V ELCU-200 Fail-to-on Emergency lighting, UL924 ¹³	ADPMS Bluetooth Mesh Wireless Sensor. Occupancy/Daylight harvesting/0-10V Dimming ^{16, 17} O7W Optional 7 Years Limited Warranty ¹⁴ O10W Optional 10 Years Limited Warranty ¹⁴ ARRA Assembled in USA BAA BAA(Buy American Act) compliant BABA BABA(Build America Buy America) compliant TAA Trade Agreements Act compliant CASAMBI Contact factory for CASAMBI READY options

NOTES:

1. Pendant mount only.
2. Pendant and Surface mount only.
3. Lumen per watt is approximately 15% fewer 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 the 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 120V or 277V, not available with 347V.
12. Integrated installation many 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. Only available with standard 0-10V LED driver.
17. Default setting from the factory is "occupancy enabled, Daylight disabled". To enable Daylight, disable occupancy and enable daylight adjustment must be made in the field prior to installation.
18. Not available with EM option.
19. Standard optic illuminates the wall. Optics can be field modified (reversed) to illuminate room.



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 - DTV-xx, NFTV GRAFIK Eye: GRX-TVI w GRX3503 Energy Savr Node: QSN-4T16-S TVM2 Module
		<Crestron>	GLX-DIMFLV8, GLXP-DIMFLV8, GLPAC-DIMFLV4-*, GLPAC-DIMFLV8-*, GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, DIN-A08, 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 IP106-1LX, 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.

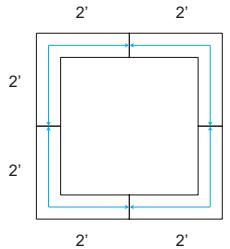
NOTES:

- 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.
- 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.
- Recommended for EasySense System.

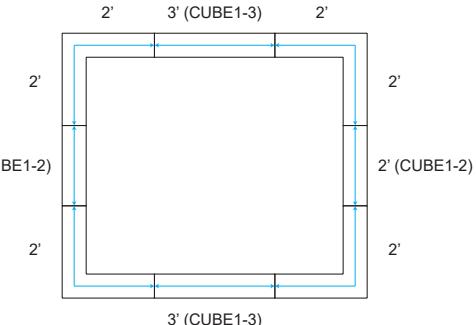
CUBE1-SQ

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

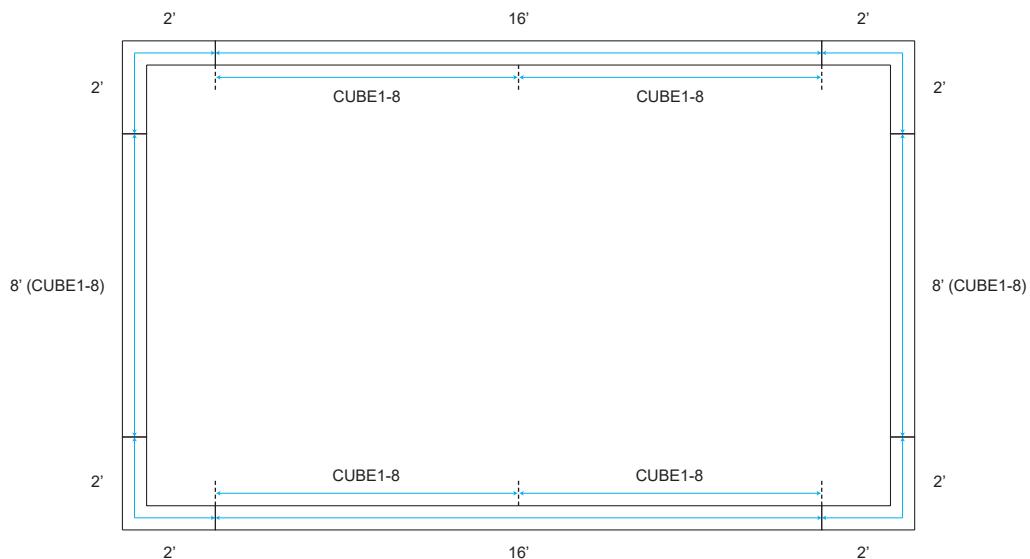
4' - 4'



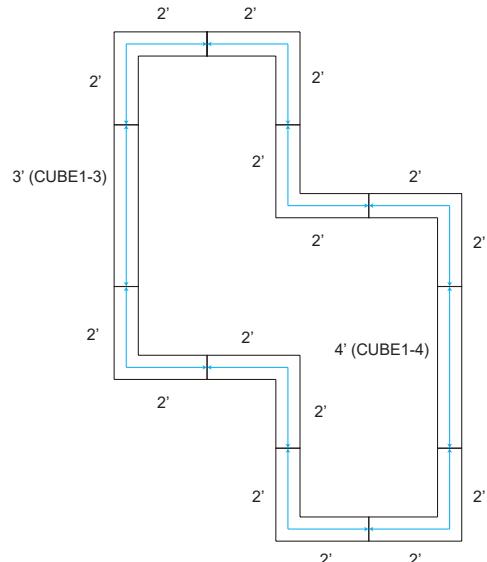
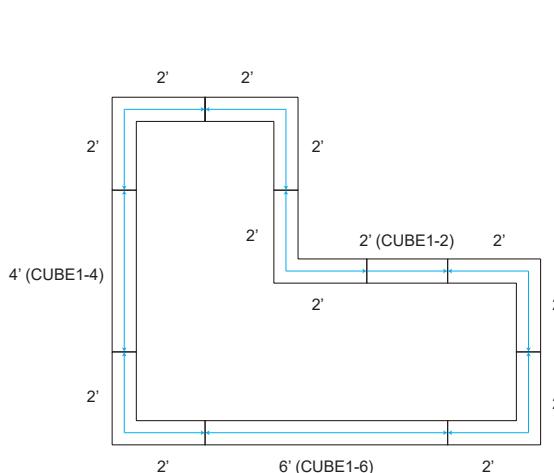
6' - 7'



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).

