CUBE2-SQ

Project Name:	
Type:	

MOUNTING:
- Pendant, surface and drywall. (For Pendant, we supply canopy of ceiling choice - drywall or T-bar)

LED:
- High quality array LG LEDs.
- LM80
- 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).
- Trade Agreements Act compliant (optional).
- 5 years limited warranty.
- 7 or 10 years limited warranty. (optional) [5]
- Bluetooth Mesh System available, please contact factory for more information.

APPLICATION
The lit connector system allows continuous illumination all the way through the corner selection. The CUBE2-SQ enables to create variety designs using CUBE2 series combined with HC90, TC, and XC lit connector(s). It is suitable for multiple applications such as commercial, general office, banking, retails, and educational environments.

CONFIGURATIONS (Based on per 4')

Series	Model #	AC Input	Fixture Lumen Output		Lumen Efficiency
CUBE2-SQ	18L	19.8W	2562.12 lm (100% Down)	2562.12 lm	129.40 lm/W
	27L	29.7W	3283.33 lm (100% Down)	3283.33 lm	110.55 lm/W
	36L	39.6W	4244.72 lm (100% Down)	4244.72 lm	107.19 lm/W
	54L	59.4W	6294.02 lm (100% Down)	6294.02 lm	105.96 lm/W
	18L/18L	39.6W	2358.73 lm (57.6% Down) / 1736.30 lm (42.4% Up)	4095.03 lm	103.41 lm/W
	27L/27L	59.4W	3538.10 lm (57.6% Down) / 2604.45 lm (42.4% Up)	6142.55 lm	103.41 lm/W
	36L/18L	59.4W	3954.11 lm (65.5% Down) / 2082.71 lm (34.5% Up)	6036.82 lm	101.63 lm/W
	54L/18L	79.2W	5875.83 lm (73% Down) / 2173.26 lm (27% Up)	8049.09 lm	101.63 lm/W

* For other sizes, lumen output must be calculated based on 4'.
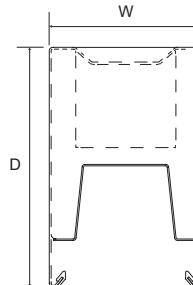
Specifications: CUBE2-SQ

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

All dimensions are in inches (millimeters).

2'   3' (CUBE2-3)

2'

7' (27L) : 3638 lm (4') + 2728.5 lm (3638 x (3/4')) = **6366.5 lm**

Sensor Plate
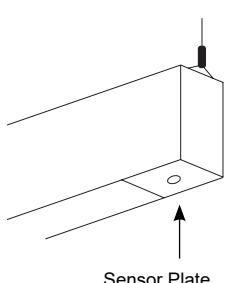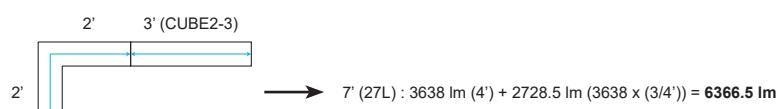
Lutron Vive Integral
fixture control installation

EasySense
fixture-mount installation

Utopia

CUBE2-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 (CUBE2-CM), please provide sketch(es) in the last page.

ORDERING INFORMATION

EXAMPLE: *CUBE2-SQ-4'-4'-D27L/U18L-30K-FT-UNV-STB*

MODEL	DIMENSION		LED Downlight (per/4ft section)		LED Uplight [1] (per/4ft section)		Uplight DISTRIBUTION		COLOR TEMP.	
CUBE2-SQ (Square)	X'-Y'	Specify dimension in inches. (Minimum required dimension is 2'-2')	**D18L** **D27L** **D36L** **D54L**	18W LED 27W LED 36W LED 54W LED	**(Blank)** **/U18L** **/U27L**	No Uplight 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 [25] Uplight Batwing 120º Non-optic frosted 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 [23] 3000K 3500K 4000K 5000K
CUBE2-RC (Rectangular)	X'-Y'	Specify dimension in inches. (Minimum required dimension is 2'-2')								
CUBE2-CM (Custom shape)	X'-Y'	Please provide drawing in the last page. (Minimum required dimension is 2'-2')								

* Maximum wattage per 4ft section
 - pendant/wall mount : 75W(up & down light)
 - recessed mount : 54W(down light)
* Contact factory for custom wattage or lumen requirement.

SEPARATE CCT.		CRI		MOUNTING		VOLTAGE	
(Blank)	Leave blank if you chose to have the same CCT for up and down in the previous section.	**C9**	90+ CRI [22]	**(Blank)** **S** **FT** **G1** **SF**	Pendant Ceiling Surface Standard 1/2" Flange (drywall) [9, 15] 9/16", 15/16", 1" T-bar Ceiling Grid [20, 21] Spackle Flange (Trimless)	**UNV** **120** **277** **347**	120-277V 120V 277V 347V [17]
DXXUYY	Indicate 27,30,35,40, or 50 for XX and YY (D represents Downlight, U represents Uplight)						

EM SECTION [3]		FIXTURE FINISH [10]		CORD FINISH (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 [13] 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** **X5**	15/16" grid T-bar ceiling Hard ceiling Sloped Hard ceiling 9/16" T-bar ceiling 9/16" Screw Slot 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	**(Blank)** **UDSD** **SP** **SD40** **SDXX** **TDM** **TD30/70** **TDXX/YY** **ELV** **ED560** **EC** **ES566** **LDE1** **PHSR** **PHDL** **TRIOT** **DTO** **DMX** **DLM** **LTEA2W**	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 DMX512 control system (Only available with RGB+W option) Wattstopper's DLM interface (Only available with RGB+W option) Hi-lume 1% 2-wire LED driver (120V forward phase only)
	* 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)	🅱 **BLT**	Bluetooth Mesh System (contact factory for more information)

OPTIONS		LIGHTING CONTROL SYSTEM	
STB	Slip Through Bracket [2]	LUTRON VIVE	<Lutron Vive System Enabled>
EMG8	1296 LUMEN EM Battery Backup (CEC Compliant EM) [7, 19]		Vive by LUTRON Click Here!
EMG15	2430 LUMEN EM Battery Backup (CEC Compliant EM) [7, 19]		
EMG20	3240 LUMEN EM Battery Backup (CEC Compliant EM) [7, 19]		<EasySense>
EMG25	4050 LUMEN EM Battery Backup (CEC Compliant EM) [7, 19]	SNS200	EasySense Fixture-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) [11, 14]
ELCU-200	Fail-to-on Emergency lighting, UL924 [8]	RS-IR	IR dongle v2.0 for EasySense control
GTD	Bodine Generator Transfer Device		<Enlighted>
GTD10DIM	Bodine Generator Transfer Device (0-10VDC Dimmer Override)	SU-5E	Enlighted IoT ready 0-10V Indoor Micro sensor with occupancy/vacancy detection, daylight harvesting, thermal sensing, task tuning, and room and zone control, Bluetooth enabled (Must be ordered with TRIOT) [12]
GLR	Fast Blow Fuse [18]		
GMF	Slow Blow Fuse [18]	RS-WS	Enlighted Room controller providing basic control functions of a standard wall switch with preset dimming capability
ARRA	Assembled in USA for Buy American Act		
BAA	BAA(Buy American Act) and BABA(Build America Buy America) compliant		
TAA	Trade Agreements Act compliant		<Bluetooth>
O7W	Optional 7 Years Limited Warranty [5]	IFS105SE	Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming
O10W	Optional 10 Years Limited Warranty [5]	PPA102S	Bluetooth Powerpack (Consult factory for installation location)
AMS	Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming [26]		
DPMS	Daylight Dimming Photo Sensor (0-10 VDC Control), (LSR-301-S required if FD-301 is installed) [24]	CASAMBI	Contact factory for CASAMBI READY options
SO	Dimming Wires connected to Sensor Only (available option on FS-205 non-Bluetooth AMS sensor only) [6]		
LSR-301-S	Setup Remote Control for DPMS (Required for DPMS)		
LSR-301-P	Occupant Remote Control for DPMS		
COC	Separated EM feed for City of Chicago code compliance		
E1F	End feed on one end (Pre-drilled hole for 1/2" fitting)		
E2F	End feed on both ends (Pre-drilled holes for 1/2" fitting)		

NOTES:
1. Pendant only.
2. Standard with "FT" mounting (Requires STB in the option as standard).
3. EM is installed in last 4' of luminaire sections. Separate section required 2SE or specified. Must specify voltage, not available with 347V.
4. 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.
5. This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation.
6. Dimming wires provided and connected to sensor only, not for dimmer switch. (available with AMS and DPMS option)
7. Contact factory for other emergency ballast options.
8. Shipped separately.
9. Requires STB in the options as standard.
10. Cord is available in white or black. (Black is not available for the EM option)
11. See NFC and IR manual in the separate attachment. If your phone is not compatible, please order "RS-IR" and follow the manual.
12. "RS-WS" option can be added if wish to have a wall switch, please see Enlighted Room Controller in the separate attachment.
13. Refer to color charts (RAL and/or Cardinal) in the separate attachment.
14. Refer to Advanced Grouping Datasheet for its default setting and compatible wireless switches.
15. Compatible with X2 ceiling type.
16. Can have up to 2 power feeds depending on the configuration.
17. 347V cannot work with Emergency Battery Backup.
18. Must specify voltage, not available with 347V.
19. For 3ft configuration, EM can only be remote mounted. Remote box is provided by others.
20. Only available with HC90-22.
21. Compatible with T-bar ceiling type.
22. Lumen per watt is around 15% less than standard CRI (80+).
23. Available with C9 (CRI 90+) only.
24. Automatic on/off is not available. For automatic on/off, additional occupancy sensor is required or a manual on/off switch can be done.
25. Standard optic illuminates the wall. Optics can be field modified (reversed) to illuminate room.
26. With TDM/ELV/SDxx/TDxx: Only available with line-voltage on/off occupancy sensor.

**SIDE VIEW**
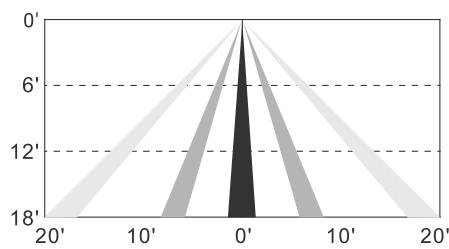
TOP VIEW
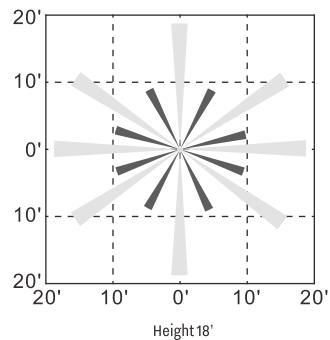
AMS, IFS105SE coverage pattern

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>	<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.
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.

CUBE2-SQ

POLAR PLOT

UN15

POLAR PLOT

UN30

POLAR PLOT

UM

POLAR PLOT

UASY

POLAR PLOT

UBAT

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

Utopia
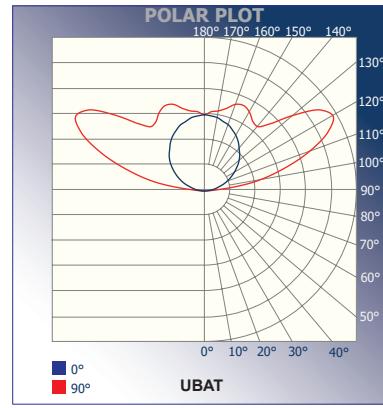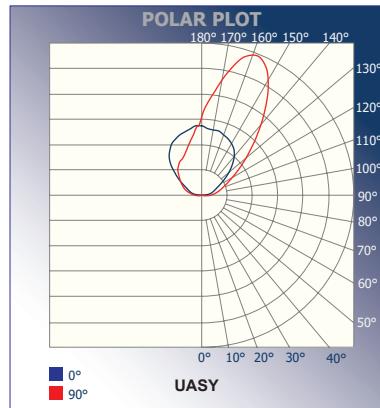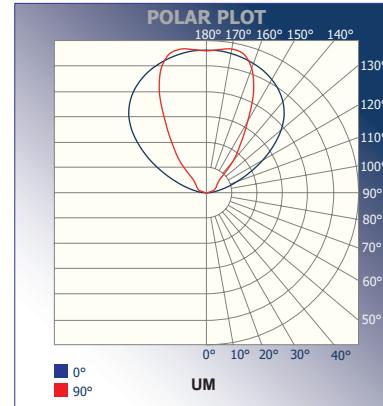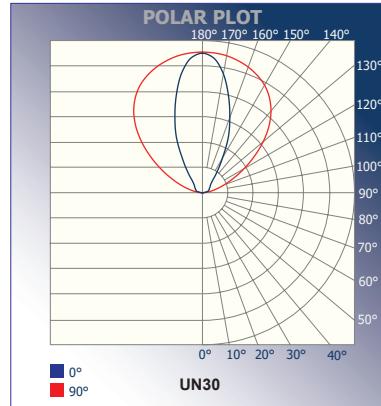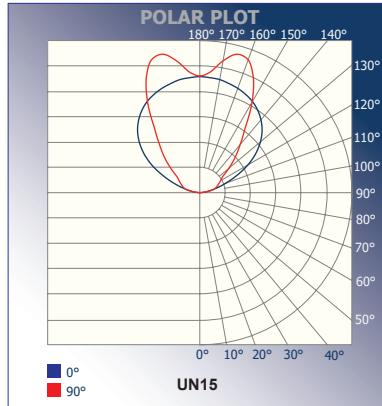
CUBE2-SQ

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

4' - 4'

```
        2'        2'
   2'                 2'

   2'                 2'
        2'        2'
```

6' - 7'

```
         2'    3' (CUBE2-3)    2'
   2'                              2'

2' (CUBE2-2)                2' (CUBE2-2)

   2'                              2'
              3' (CUBE2-3)
```

12' - 20'

```
      2'              16'              2'
2'                                        2'
        CUBE2-8          CUBE2-8

8' (CUBE2-8)                      8' (CUBE2-8)

2'                                        2'
        CUBE2-8          CUBE2-8
      2'              16'              2'
```
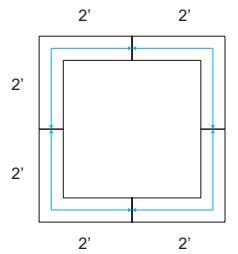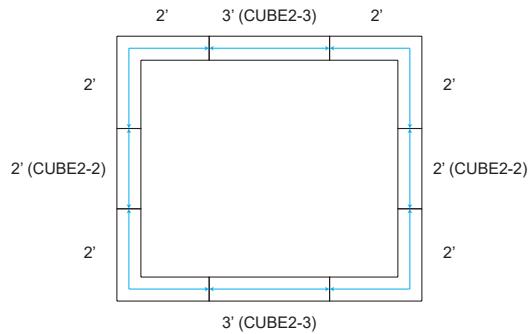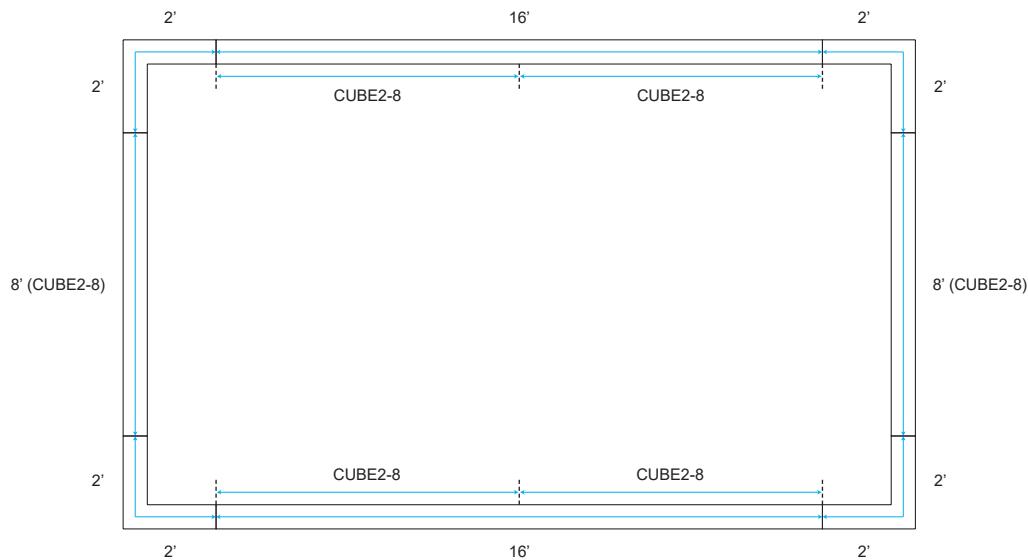
MODEL# CUBE-CM examples (Measurement from center point)

```
        2'    2'
   2'              2'
   2'
             2' (CUBE2-2)   2'
   2'             2'
4' (CUBE2-4)                 2'
             2'
   2'                        2'
        2'   6' (CUBE2-6)   2'
```

```
              2'    2'
      2'                 2'
3' (CUBE2-3)    2'
                         2'
              2'
      2'                 2'
           4' (CUBE2-4)
      2'           2'
              2'    2'
```

```
3' (CUBE2-3)   3' (CUBE2-3)   3' (CUBE2-3)

        2' (CUBE2-2)   2' (CUBE2-2)
2'  1'          2'x2'         1'  2'

3' (CUBE2-3)   3' (CUBE2-3)   3' (CUBE2-3)
```
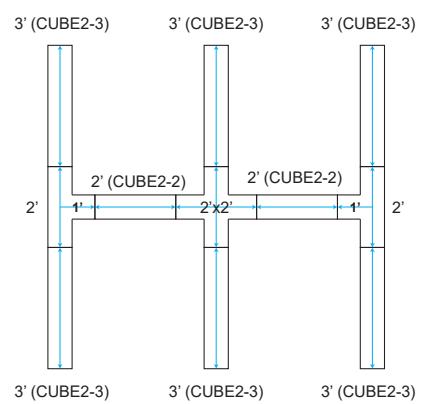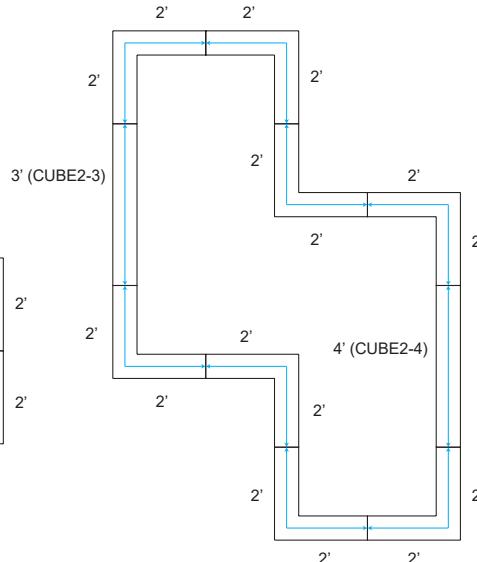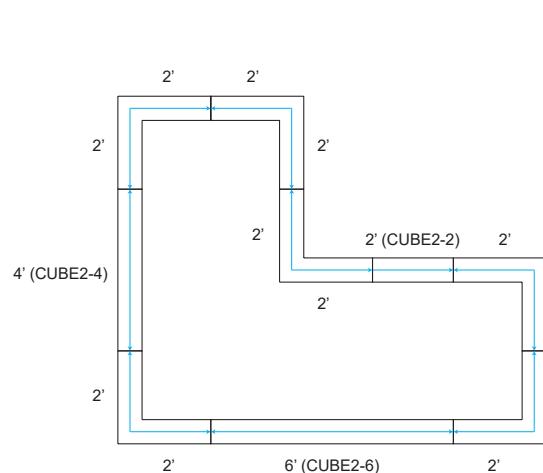
CUBE 2 LIT CONNECTOR PATTERNS

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).