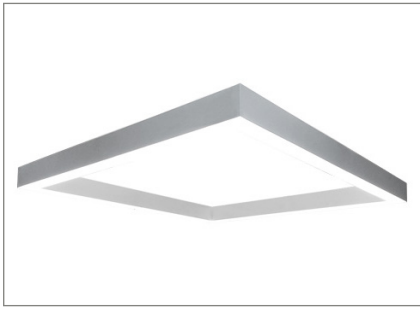


# CUBE2-SQ

|               |  |
|---------------|--|
| Project Name: |  |
| Type:         |  |



**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.

**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).

**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:**

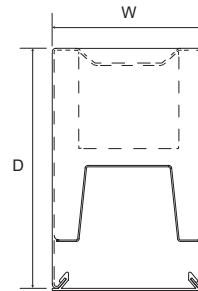
- UL / CUL listed.
- Listed to UL 1598 and UL 8750.
- UL listed for dry & damp location.
- CEC Compliant EM (please contact for more information)
- Assembled in USA (optional).
- BAA compliant (optional).
- 5 years limited warranty.
- 7 or 10 years limited warranty. (optional) <sup>5</sup>
- Bluetooth Mesh System available, please contact factory for more information.

- <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.

**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      |

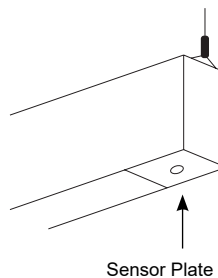
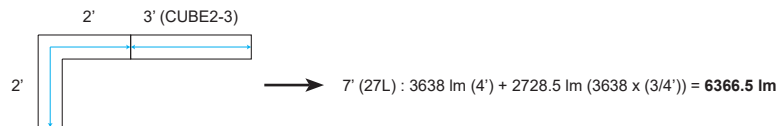
\* For other sizes, lumen output must be calculated based on 4'.



Specifications: CUBE2-SQ

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

All dimensions are in inches (millimeters).



Sensor Plate



Lutron Vive Integral fixture control installation



EasySense fixture-mount installation

# 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 <sup>1</sup> (per/4ft section) |                                  | Uplight DISTRIBUTION                                 |  | COLOR TEMP.                          |  |
|----------|-----------|--|--|--|--|----------------------------------|--|--|--------------------------------------|--|
| CUBE2-SQ | X'-Y'     | Specify dimension in inches. (Minimum required dimension is 2'-2')             | D18L<br>D27L<br>D36L<br>D54L   | 18W LED<br>27W LED<br>36W LED<br>54W LED | (Blank)<br>/U18L<br>/U27L                  | No Uplight<br>18W LED<br>27W LED | (Blank)<br>UN15<br>UN30<br>UM<br>UASY<br>UBAT<br>UPC | No optic<br>Uplight Narrow 15°<br>Uplight Narrow 30°<br>Uplight Medium 60°<br>Uplight Asymmetric 20° 25<br>Uplight Batwing 120°<br>Non-optic clear cover | (Blank)                              | Leave blank if you wish to have different CCT for up and down, and fill out next section.<br>2700K <sup>23</sup><br>3000K<br>3500K<br>4000K<br>5000K |
| CUBE2-CM | X'-Y'     | Please provide drawing in the last page. (Minimum required dimension is 2'-2') | * Maximum wattage per 4ft section<br>- pendant/wall mount : 75W(up & down light)<br>- recessed mount : 54W(down light)<br>* Contact factory for custom wattage or lumen requirement. |  |  |                                  |  |  | -27K<br>-30K<br>-35K<br>-40K<br>-50K |  |

| 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 <sup>22</sup> | (Blank)  | Pendant  | UNV     | 120-277V           |
| DXXYUY        | Indicate 27,30,35,40, or 50 for XX and YY (D represents Downlight, U represents Uplight) |     |                       | S        | Ceiling Surface  | 120     | 120V               |
|               |  |     |                       | FT       | Standard 1/2" Flange (drywall) <sup>9, 15</sup>        | 277     | 277V               |
|               |  |     |                       | G1       | 9/16", 15/16", 1" T-bar Ceiling Grid <sup>20, 21</sup> | 347     | 347V <sup>17</sup> |

| EM SECTION <sup>3</sup>  |           | FIXTURE FINISH <sup>10</sup> |   | CORD FINISH (for pendant) |              | CANOPY FINISH (for pendant) |                                     | CEILING TYPE (for pendant) |                           |
|--|-----------|------------------------------|---|---------------------------|--------------|-----------------------------|-------------------------------------|----------------------------|---------------------------|
| (Blank)  | None EM   | (Blank)                      | Matte White RAL #9003 (Std.)              | (Blank)                   | White (Std.) | (Blank)                     | White (Std.)                        | X1                         | 15/16" grid T-bar ceiling |
| 1SE  | 1 Section | *BK                          | Black RAL #9011                           | *BKC                      | Black        | *BC                         | Black Canopy                        | X2                         | Hard ceiling              |
| 2SE  | 2 Section | *SV                          | Silver (RAL #9022)                        |                           |              | *SC                         | Silver Canopy                       | X3                         | Sloped Hard ceiling       |
| xSE  | x Section | **CC                         | Custom Color <sup>13</sup>                |                           |              | **CSS                       | Custom Canopy Color (White is Std.) | X4                         | 9/16" T-bar ceiling       |
|  |           | *AMB                         | Anti-Microbial Coating (Matte Skye White) |                           |              |                             |                                     |                            |                           |
| * Non-standard finish with extra charge.<br>** Additional charge & set up fee. |           |                              |   |                           |              |                             |                                     |                            |                           |

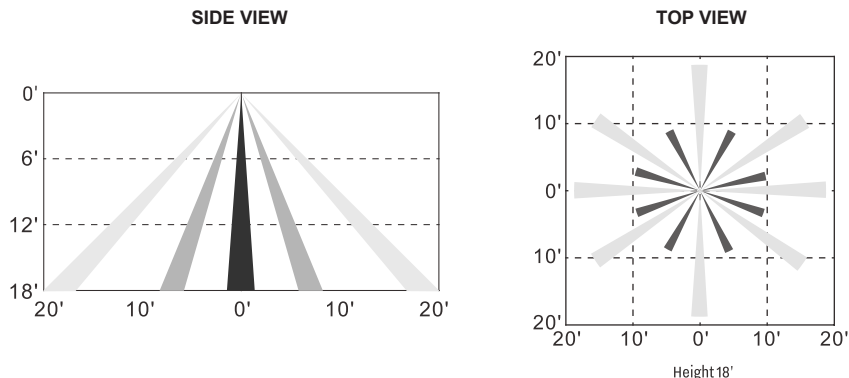
| SUSPENSION LENGTH (for pendant) |   | LED DRIVER |   |
|---------------------------------|---|------------|---|
| AC48                            | Adjustable Aircraft Cable Canopy 48"L   | (Blank)    | 0-10V dim to 1% (Std.) (dim both uplight and downlight simultaneously)  |
| AC96                            | Adjustable Aircraft Cable Canopy 96"L   | UDSD       | Separate Dimming Control of Uplight and Downlight (0-10V dim to 1%) <sup>4, 16</sup>  |
| ST24                            | Stem Canopy 24"L  | SP         | Separate Power Control for Uplight and Downlight  |
| ST48                            | Stem Canopy 48"L  | SD40       | 40% / 100% Bi-Level Step dim  |
|                                 | * Contact factory for custom length.<br>1 aircraft cable standard for each joint. | 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      | eldoLED LightShape DALI dim to dark, 0.1% ~ 100%  |
|                                 |   | EC         | eldoLED ECOdrive 0-10V natural dim to 1% (Hybrid HydraDrive)  |
|                                 |   | ES566      | eldoLED 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  |
|                                 |   | DMX        | DMX512 control system (Only available with RGB+W option)  |
|                                 |   | DLM        | Wattstopper's DLM interface (Only available with RGB+W option)  |
|                                 |   | LTEA2W     | Hi-lume 1% 2-wire LED driver (120V forward phase only)  |
|                                 |   | BLT        | Bluetooth Mesh System (contact factory for more information)  |

# CUBE2-SQ

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

NOTES:

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



AMS, IFS105SE coverage pattern

# CUBE2-SQ

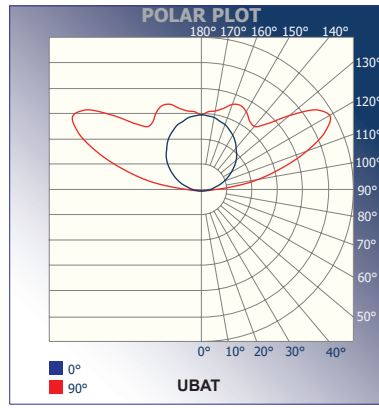
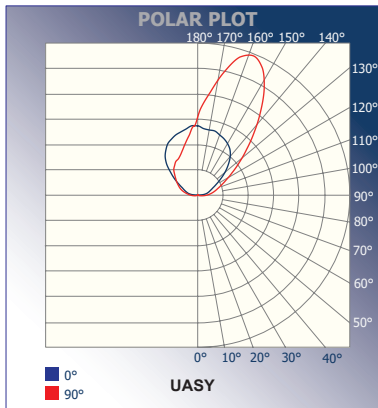
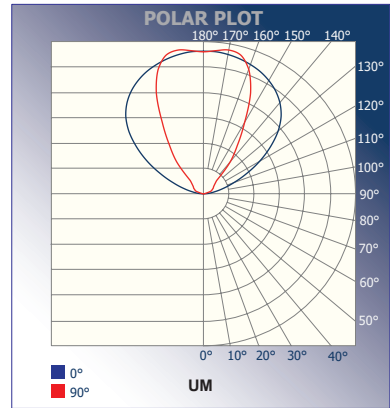
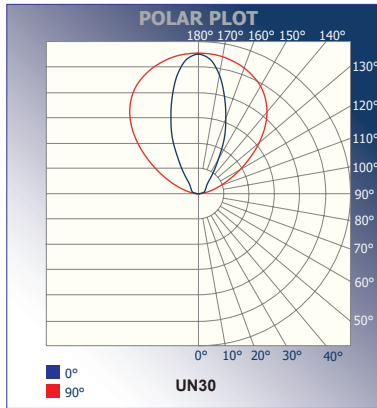
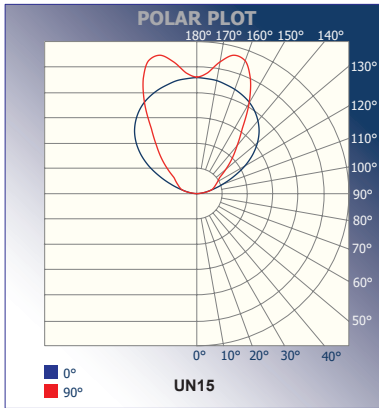
COMPATIBLE DIMMER SWITCH (TABLE 1)

| Model #           | Brand   | Compatible Dimmer Switch |   |
|-------------------|---|--------------------------|---|
| (Blank)           | -   | <Leviton>                | IlumaTech IP7 series  |
|                   |   | <Lutron>                 | Visit <a href="http://www.lutron.com/advance">www.lutron.com/advance</a> 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>                | IlumaTech - 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<br>Diva - DVTV-xx, NFTV<br>GRAFIK Eye: GRX-TV1 w GRX3503<br>Energy Savr Node: QSN-4T16-S<br>TVM2 Module   |
| <Crestron>        | GLX-DIMFLV8, GLXP-DIMFLV8, GLPAC-DIMFLV4-*, GLPAC-DIMFLV8-*, 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<br>SS-LUNAT Touch or BT<br>SS-LUNAT Comm  |
| LDE1              | Lutron Hi-lume 1% EcoSystem   | <Lutron>                 | PowPak Dimming Modules: RMJ-ECO32-DV-B, FCJ/FCJS-ECO <sup>1, 2</sup><br>Energi Savr Node (120V only): QSN-1ECO-S, QSN-2ECO-S<br>GRAFIK Eye QS/Homeworks QS control unit (120V only): QSGRJ- E(wireless) QSGR- E<br>Quantum Hub (120V only): QP2- _2C/4C/6C/8C<br>Homeworks QS/myRoom Plus power module (120V only): LQSE-2ECO-D |
| PHSR <sup>3</sup> | Philips Xitanium Sensor-Ready   | <Ilumra>                 | <u>Single Rocker Self-Powered Light Switch (on/off, dim-up/down)</u><br>Ilumra# ZBT-S1AWH<br>Digi-Key# 1082-1033-ND<br><u>Dual Rocker Self-Powered Light Switch (on/off, dim-up/down, scene1,2)</u><br>Ilumra# ZBT-S2AWH<br>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, IlumaTech IPI06-1LX, ToggleTouch TGI06-1LW (Digital)  |
| ELV               | KEYSTONE  | <Lutron>                 | MAELV-600BL (Digital), DVELV-300P, SkyLark SELV-300P  |
| DTO               | Philips Xitanium Gen.2<br>Philips Xitanium Sensor-Ready   | <Lutron>                 | Nova T: #NTSTV-DV<br><a href="http://www.lutron.com/TechnicalDocumentLibrary/NovaTB.pdf">http://www.lutron.com/TechnicalDocumentLibrary/NovaTB.pdf</a><br>See page13.   |
| LTEA2W            | Lutron Hi-lume 2-wire<br>(120V forward voltage only)  | <Lutron>                 | Visit <a href="http://www.lutron.com/TechnicalDocumentLibrary/369543_ENG.pdf">http://www.lutron.com/TechnicalDocumentLibrary/369543_ENG.pdf</a> 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](http://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.

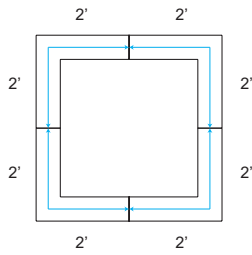
# CUBE2-SQ



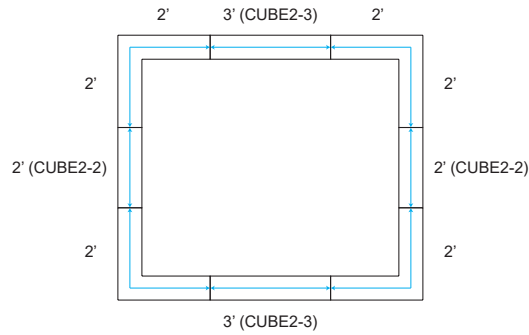
# CUBE2-SQ

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

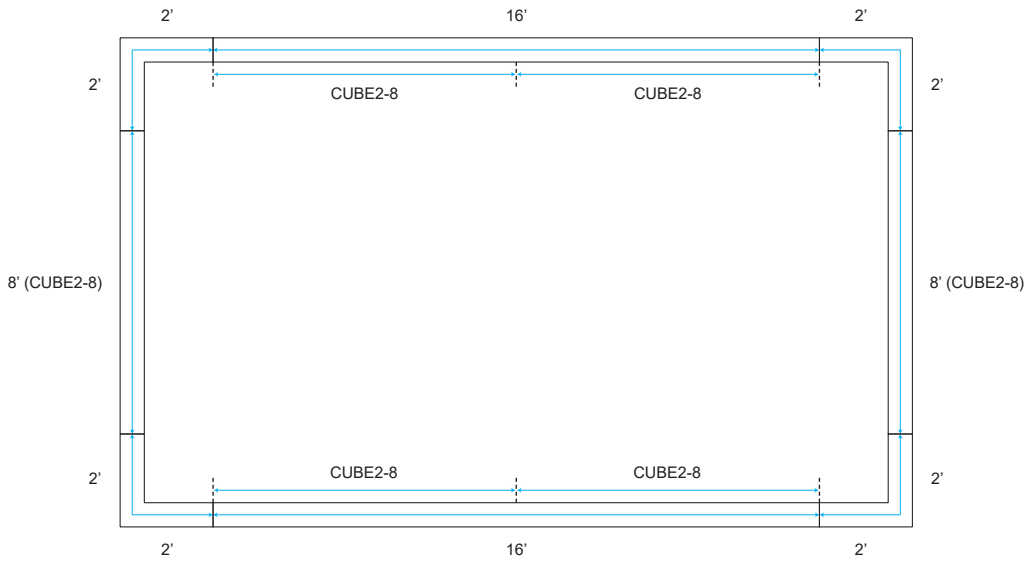
**4' - 4'**



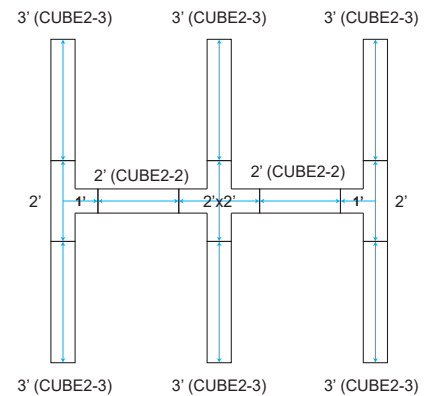
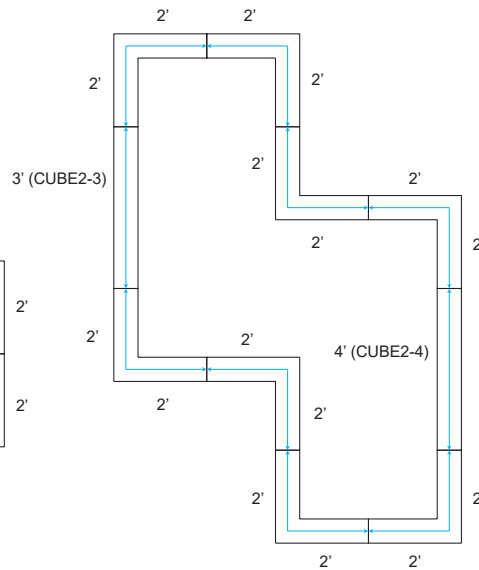
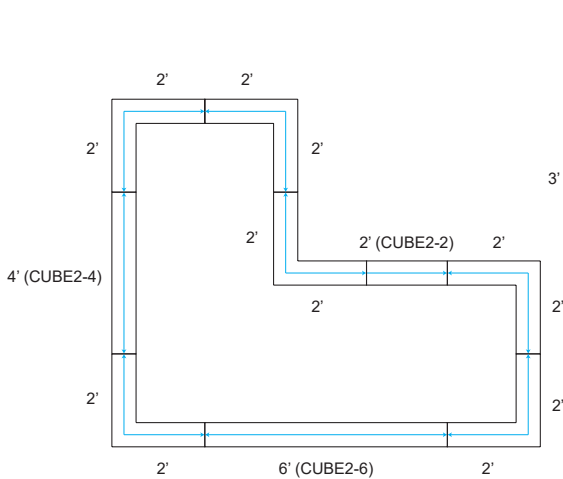
**6' - 7'**



**12' - 20'**



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



# ARCHITECTURAL LINEAR

## 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).

