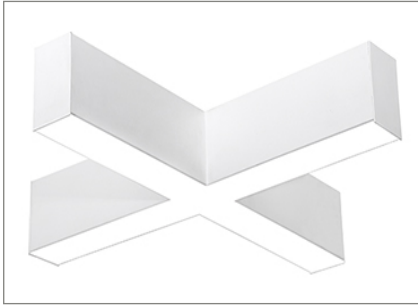


CUBE2-X

Project Name:

Type:



APPLICATION

The CUBE2-X creates a design statement for contemporary and traditional architectural interiors. The 90 degree luminaires are decorative and suitable for a multiple of applications like offices, retails, museums and galleries as well as high ceiling application such as lobbies.

FEATURE:

- Housing is formed by cold-rolled steel with a highly reflective die-formed white painted steel reflector.
- The snap-in acrylic lens has a matte finish and a diffuser (.125" thick) which is removable for lamp replacement.

MOUNTING:

- Pendant and drywall mount available.

LED:

- High quality array LEDs.
- LM80
- Color Temperature: 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.
- 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.

CONFIGURATIONS

| Series | Model # | AC Input | Fixture Lumen Output (4000K) | | Lumen Efficiency (4000K) |
|---------|---------|----------|---|------------|--------------------------|
| CUBE2-X | 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 |
| | 48L | 49.8W | 5303.70 lm (100% Down) | 5303.70 lm | 106.5 lm/W |
| | 54L | 57W | 5849 lm (100% Down) | 5849 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/18L | 49.5W | 3303.73 lm (63% Down) / 1940.30 lm (37% Up) | 5244.03 lm | 105.94 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 |
| | 48L/18L | 69.6W | 4569.44 lm (64.6% Down) / 2504 lm (35.4% Up) | 7073.44 lm | 101.63 lm/W |
| | 48L/27L | 79.5W | 4791.19 lm (59.3% Down) / 3288.39 lm (40.7% Up) | 8079.58 lm | 101.63 lm/W |
| | 54L/18L | 76.8W | 5697.78 lm (73% Down) / 2107.4 lm (27% Up) | 7805.18 lm | 101.63 lm/W |

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

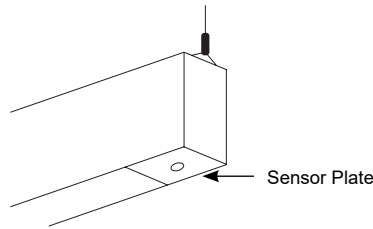
OUTPUT CURRENT

| | | 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% |

WEIGHT

| Item | lbs | kg |
|------------|-------|------|
| CUBE2-X | 15.08 | 6.84 |
| CUBE2-X-FT | 17.63 | 8.00 |

CUBE2-X



ORDERING INFORMATION


EXAMPLE: CUBE2-X-D27L-30K-UNV-X1-AC48


| MODEL | SHAPE | | LED Downlight (per/each section) | | LED Uplight ¹ (per/each section) | | Uplight DISTRIBUTION | | COLOR TEMP. | |
|---------|---------|--|--|--|--|--------------------|--|--|------------------------------|---|
| CUBE2-X | (Blank) | X shape individual unit | D18L D27L D36L D54L | 18W LED 27W LED 36W LED 54W LED | /U18L /U27L | 18W LED 27W LED | (Blank) UN15 UN30 UM UASY UBAT UPC | No optic Uplight Narrow 15° Uplight Narrow 30° Uplight Medium 60° Uplight Asymmetric 20° 20 Uplight Batwing 120° Non-optic frosted cover | (Blank) | Leave blank if you wish to have different CCT for up and down, and fill out next section. |
| | CM | Custom pattern (must provide a sketch on the last page of this spec sheet) | * Maximum wattage per each section - pendant : 75W(up & down light) - recessed mount : 54W(down light) * Contact factory for custom wattage or lumen requirement. | | | | | | -30K -35K -40K -50K | 3000K 3500K 4000K 5000K |

| SEPARATE COLOR TEMP. ¹ | | CRI | | MOUNTING | | VOLTAGE | | EM SECTION | | FIXTURE FINISH ¹⁰ | |
|-----------------------------------|---|---------|------------------------------------|----------|--|--------------------------|--|----------------|----------------------|---------------------------------------|--|
| (Blank) | Leave blank if you wish to have different CCT for up and down, and fill out next section. | (Blank) | 80+ CRI C9 90+ CRI ⁹ | (Blank) | Pendant Standard 1/2" Flange (drywall) ² | UNV 120 277 347 | 120-277V 120V 277V 347V ¹⁵ | (Blank) 1SE | None EM 1 Section | (Blank) *BK *SV **CC *AMB | Matte White RAL #9003 (Std.) Black RAL #9011 Silver (RAL #9022) Custom Color ⁸ Anti-Microbial Coating (Matte Skye White) |
| DXXUYY | Indicate 27,30,35,40 or 50 for XX and YY (D represents Downlight, U represents Uplight). | | | | | | | | | | * Non-standard finish with extra charge. ** Additional charge & set up fee. |

| CORD FINISH (for pendant) | | CANOPY FINISH (for pendant) | | CEILING TYPE (for pendant) | | SUSPENSION LENGTH (for pendant) | |
|--|-----------------------|--------------------------------|--|--|---|------------------------------------|--|
| (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 | AC48 AC96 ST24 ST48 | Adjustable Aircraft Cable Canopy 48"L Adjustable Aircraft Cable Canopy 96"L Stem Canopy 24"L Stem Canopy 48"L |
| * Non-standard finish with extra charge. ** Additional charge & set up fee. | | | | * Contact factory for custom length. * add "FC" at the end of stem length for field cuttable stem kit (Ex) ST48FC) | | | |

CUBE2-X

| LED DRIVER | | OPTIONS | |
|--|---|------------------|--|
| (Blank) | 0-10V dim to 1% (Std.) (dim both uplight and downlight simultaneously) | STB | Slip Through Bracket ³ |
| UDSD | Separate Dimming Control of Uplight and Downlight (0-10V dim to 1%) ^{7, 14} | EM5MC | 810 LUMEN Emergency Ballast (32°F (0°C) ~ 131°F (55°C)) |
| SP | Separate Power Control for Uplight and Downlight | EM7MC | 1134 LUMEN Emergency Ballast (32°F (0°C) ~ 122°F (50°C)) |
| ES566 | eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim | EM10MC | 1620 LUMEN Emergency Ballast (32°F (0°C) ~ 131°F (55°C)) |
| SD40 | 40% / 100% Bi-Level Step dim | EMG25 | 4050 LUMEN EM Battery Backup (CEC Compliant EM) ^{18, 19} |
| SDXX | XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%) | EMC | CEC compliant EM ⁴ |
| PHSR | Philips Xitanium Sensor-Ready, Dali 5%~100% dim. | GTD | Bodine Generator Transfer Device |
| PHDL | Philips Xitanium DALI driver, Dim to 5% | GTD10DIM | Bodine Generator Transfer Device (0-10VDC Dimmer Override) |
| ED560 | eldoLED LightShape DALI dim to dark, 0.1% ~ 100% | GLR | Fast Blow Fuse ¹⁶ |
| TDM | Triac Dim. (120V only) | GMF | Slow Blow Fuse ¹⁶ |
| TD30/70 | 30% / 70% / 100% Tri-Level Step dim | ARRA | Assembled in USA for Buy American Act |
| TDXX/YY | XX% / YY% / 100% Tri-Level Step dim (Specify XX, YY : 10% ~ 70%) | BAA | BAA(Buy American Act) and BABA(Build America Buy America) compliant |
| LDE1 | Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim | TAA | Trade Agreements Act compliant |
| ELV | ELV compatible (reverse-phase or trailing-edge), (120V only) | O7W | Optional 7 Years Limited Warranty ⁵ |
| TRIOT | Tridonic IoT ready, 1-100% dim via Smart Module Interface (SMI), automated dimming/lighting controls via Enlighted Sensor Interface | O10W | Optional 10 Years Limited Warranty ⁵ |
| DTO | 0-10V DIM-TO-OFF | AMS | Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming ²¹ |
| DMX | DMX512 control system (Only available with RGB+W option) | DPMS | Daylight Dimming Photo Sensor (0-10 VDC Control), (LSR-301-S required if FD-301 is installed) ¹⁷ |
| DLM | Wattstopper's DLM interface (Only available with RGB+W option) | SO | Dimming Wires connected to Sensor Only (available option on FS-205 non-Bluetooth AMS sensor only) ⁶ |
| LTEA2W | Hi-lume 1% 2-wire LED driver (120V forward phase only) | LSR-301-S | Setup Remote Control for DPMS (Required for DPMS) |
|  BLT | Bluetooth Mesh System (contact factory for more information) | LSR-301-P | Occupant Remote Control for DPMS |
| | | 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) |

| LIGHTING CONTROL SYSTEM | |
|-------------------------|--|
| LUTRON VIVE | <p><Lutron Vive System Enabled></p>  <p>Click Here!</p> |
| SNS200 | <EasySense> |
| RS-IR | EasySense Fixture-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) ^{11, 12} |
| SU-5E | <Enlighted> |
| RS-WS | 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) ¹³ |
| IFS105SE | <Bluetooth> |
| PPA102S | Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming |
| CASAMBI | Bluetooth Powerpack (Consult factory for installation location) |
| | Contact factory for CASAMBI READY options |

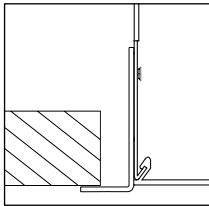
NOTES:

- Pendant only.
- Requires # STB as standard.
- Standard with "FT" mounting.
- Check with factory for more details.
- 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)
- 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.
- Refer to color charts (RAL and/or Cardinal) in the separate attachment.
- Lumen per watt is around 15% less than standard CRI (80+).
- 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.
- Refer to Advanced Grouping Datasheet for its default setting and compatible wireless switches.
- "RS-WS" option can be added if wish to have a wall switch, please see Enlighted Room Controller in the separate attachment.
- 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.
- Automatic on/off is not available. For automatic on/off, additional occupancy sensor is required or a manual on/off switch can be done.
- Contact factory for other emergency ballast options.
- For 3ft configuration, EM can only be remote mounted. Remote box is provided by others.
- Standard optic illuminates the wall. Optics can be field modified (reversed) to illuminate room.
- With TDM/ELV/SDxx/TDxx: Only available with line-voltage on/off occupancy sensor.

CUBE2-X

- INACCESSIBLE CEILING MOUNTING

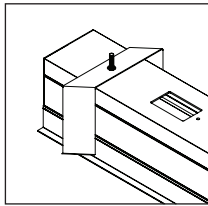
Flange Detail



Exposed Flange Detail:
Specify FT in part #

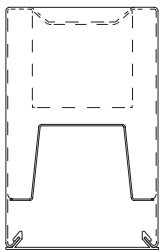
- SPECIALTY MOUNTS

Rotating Crossbar

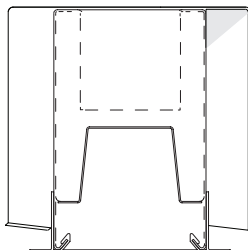


Unavailable Structure Support:
Specify STB in part #

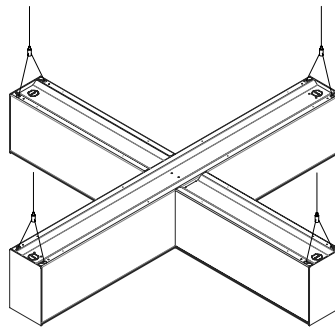
Surface



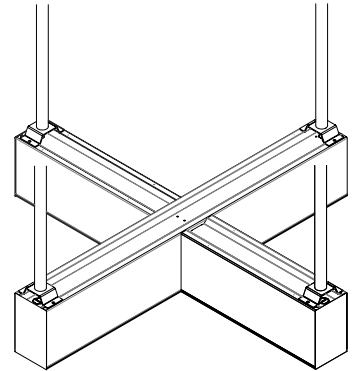
Drywall



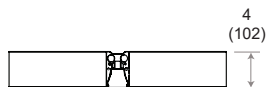
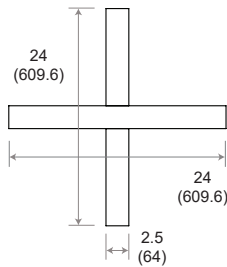
Cable



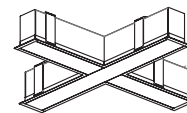
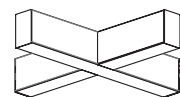
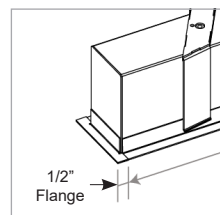
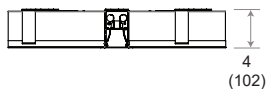
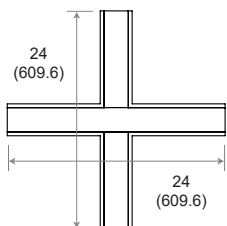
Stem



Pendant



Drywall



All dimensions are in inches (millimeters).

* Dimensions shown are without flange.

CUBE2-X

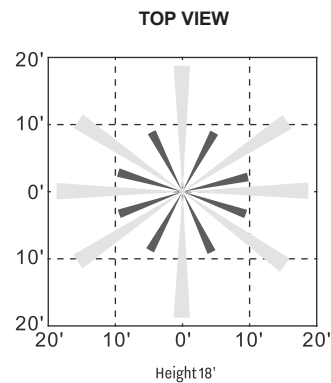
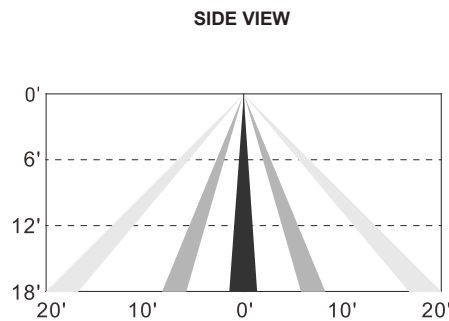
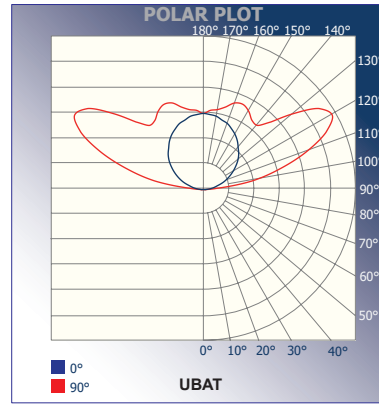
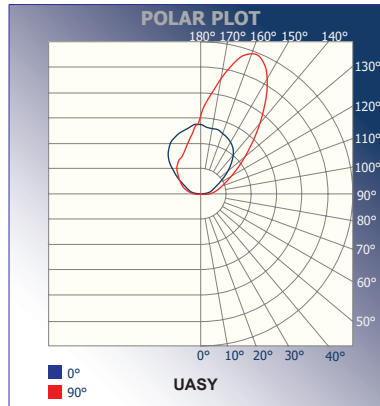
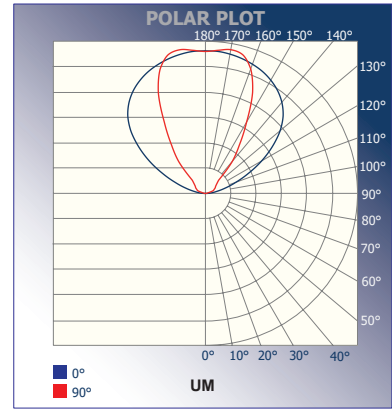
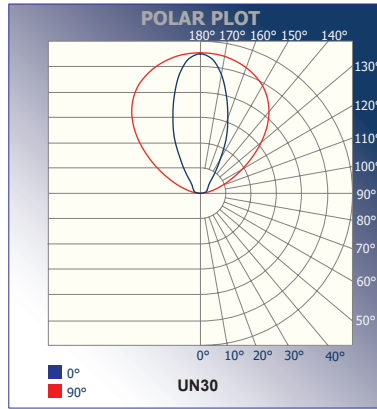
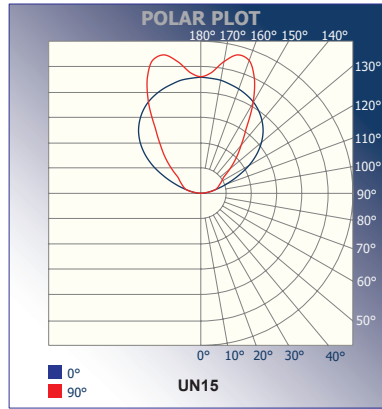
COMPATIBLE DIMMER SWITCH (TABLE 1)

| Model # | Brand | Compatible Dimmer Switch | |
|-------------------|---|--------------------------|---|
| (Blank) | - | <Leviton> | IP710-LFZ |
| | | <Lutron> | Nova: NFTV-dimmer plus PP-DV relay pack(s) Nova T: NTSTV-DV-dimmer Diva: DVTV-dimmer, DVSCSTV-dimmer, plus PP-DV, relay pack(s), DVSTV-dimmer, DVSCSTV-dimmer GRAFIK Eye QS: QSGRJ-XP, plus GRX-TVI 0-10V interface GRAFIK Eye QS w/EcoSystem: QSGRJ-XE, QSGR-XE, plus GRX-TVI 0-10V interface PowPak: RMJ-5T |
| 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 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-DIMFLV8-*, GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, DIN-A08, 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 5-Series EcoSystem | <Lutron> | PowPak Dimming Modules: RMJ-ECO32-DV-B, FCJ/FCJS-ECO ^{1,2} Energi Savr Node (120V only): QSN-1ECO-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 | <Ilumra> | <u>Single Rocker Self-Powered Light Switch (on/off, dim-up/down)</u> Ilumra# ZBT-S1AWH Digi-Key# 1082-1033-ND <u>Dual Rocker Self-Powered Light Switch (on/off, dim-up/down, scene1,2)</u> Ilumra# 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 |
| ELV | KEYSTONE | <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 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:

- 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.

CUBE2-X



AMS, IFS105SE coverage pattern

CUBE2-X 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, outside dimension).

