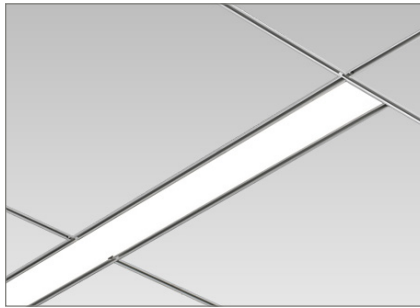


CUBE2



CASAMBI

APPLICATION

The CUBE is a featured Architectural Linear fixture. 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 LED module replacement. It is used for multiple applications such as commercial, general office, banking, retail and educational environments.

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

MOUNTING:

- Compatible with most ceiling including T-bar, screw slot and drywall.

LED:

- High quality arrayLEDs.
- 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.
- DLC listed. ¹³
- 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) ⁷
- CCEA City of Chicago Environmental Air approved (optional).
- Bluetooth Mesh System available, please contact factory for more information.

CONFIGURATIONS

| Series | Size | Model # | AC Input | Fixture Lumen Output (4000K) | | Lumen Efficiency (4000K) |
|--------|------|---------|----------|------------------------------|-------------|--------------------------|
| CUBE2 | 2' | 18L | 9.9W | 1280.46 lm (100% Down) | 1280.46 lm | 129.34 lm/W |
| | | 27L | 14.85W | 1641.66 lm (100% Down) | 1641.66 lm | 110.55 lm/W |
| | | 36L | 19.8W | 2122.36 lm (100% Down) | 2122.36 lm | 107.19 lm/W |
| | | 48L | 26.4W | 2811.6 lm (100% Down) | 2811.6 lm | 106.5 lm/W |
| | | 54L | 29.7W | 3146.41 lm (100% Down) | 3146.41 lm | 105.94 lm/W |
| | 3' | 18L | 14.85W | 1921.29 lm (100% Down) | 1921.29 lm | 129.38 lm/W |
| | | 27L | 22.27W | 2461.50 lm (100% Down) | 2461.50 lm | 110.53 lm/W |
| | | 36L | 29.7W | 3182.95 lm (100% Down) | 3182.95 lm | 107.17 lm/W |
| | | 48L | 39.6W | 4217.4 lm (100% Down) | 4217.4 lm | 106.5 lm/W |
| | | 54L | 44.55W | 4720.51 lm (100% Down) | 4720.51 lm | 105.96 lm/W |
| | 4' | 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 | 52.8W | 5623.2 lm (100% Down) | 5623.2 lm | 106.5 lm/W |
| | | 54L | 59.4W | 6294.02 lm (100% Down) | 6294.02 lm | 105.96 lm/W |
| | 5' | 18L | 24.75W | 3202.15 lm (100% Down) | 3202.15 lm | 129.38 lm/W |
| | | 27L | 37.13W | 4104.72 lm (100% Down) | 4104.72 lm | 110.55 lm/W |
| | | 36L | 49.5W | 5305.9 lm (100% Down) | 5305.9 lm | 107.19 lm/W |
| | | 48L | 66W | 7029 lm (100% Down) | 7029 lm | 106.5 lm/W |
| | | 54L | 74.25W | 7866.78 lm (100% Down) | 7866.78 lm | 105.95 lm/W |
| | 6' | 18L | 29.7W | 3842.58 lm (100% Down) | 3842.58 lm | 129.38 lm/W |
| | | 27L | 44.55W | 4925 lm (100% Down) | 4925 lm | 110.55 lm/W |
| | | 36L | 59.4W | 6367.08 lm (100% Down) | 6367.08 lm | 107.19 lm/W |
| | | 48L | 79.2W | 8434.8 lm (100% Down) | 8434.8 lm | 106.5 lm/W |
| | | 54L | 89.1W | 9400.14 lm (100% Down) | 9400.14 lm | 105.95 lm/W |
| | 8' | 18L | 39.6W | 5124.24 lm (100% Down) | 5124.24 lm | 129.40 lm/W |
| | | 27L | 59.4W | 6566.67 lm (100% Down) | 6566.67 lm | 110.55 lm/W |
| | | 36L | 79.2W | 8489.45 lm (100% Down) | 8489.45 lm | 107.19 lm/W |
| | | 48L | 105.6W | 11246.4 lm (100% Down) | 11246.4 lm | 106.5 lm/W |
| | | 54L | 118.8W | 12588.05 lm (100% Down) | 12588.05 lm | 105.96 lm/W |

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% |

| Multiplier | | | |
|------------|--------|--------|--------|
| CCT | 3000K | 3500K | 5000K |
| Down only | 0.9642 | 0.9822 | 1.0357 |

CUBE2

WEIGHT

| Item | lbs | kg |
|---------------------|-------|-------|
| CUBE 2 2FT DRYWALL | 8.14 | 3.69 |
| CUBE 2 3FT DRYWALL | 11.00 | 4.99 |
| CUBE 2 4FT DRYWALL | 12.89 | 5.85 |
| CUBE 2 8FT DRYWALL | 25.45 | 11.55 |
| CUBE 2 4FT G1 | 12.85 | 5.83 |
| CUBE 2 8FT G1 | 23.73 | 10.77 |
| CUBE 2 4FT SS | 12.05 | 5.47 |
| CUBE 2 8FT SS | 22.15 | 10.05 |
| CUBE 2 HC90 DRYWALL | 17.37 | 7.88 |
| CUBE 2 X DRYWALL | 17.63 | 8.00 |
| CUBE 2 T DRYWALL | 12.76 | 5.79 |



DROP LENS

ORDERING INFORMATION

EXAMPLE: CUBE2-IND-4-D27L-30K-FT-UNV-STB


| MODEL | ROW ¹ | SECTION ² | LED Downlight (per/4ft section) | COLOR TEMP. |
|--|--|---|--|---|
| CUBE2-IND (Individual Mount) CUBE2-CON (Continuous Row Mount) | xx' Specify nominal overall row length in 1' increments (Continuous runs) | 2 2' Length 3 3' Length 4 4' Length 5 5' Length 6 6' Length 8 8' Length ⁵ | D18L 18W LED (734 lm/ft) D27L 27W LED (924 lm/ft) D36L 36W LED (991 lm/ft) D54L 54W LED (1467 lm/ft) <small>* Maximum wattage per 4ft section - recessed mount : 54W (down light) * Contact factory for custom wattage or lumen requirement.</small> | -27K 2700K ¹² -30K 3000K -35K 3500K -40K 4000K -50K 5000K |
| CUBE2-CM (Custom) | Must provide a sketch on the last page | | | |

| CRI | MOUNTING | PERIMETER | VOLTAGE | EM SECTION ⁶ | FINISH ¹⁴ |
|-----------------------------|---|--|--|--|--|
| (Blank) C9 | 80+ CRI 90+ CRI ¹¹ G1 9/16", 15/16", 1" T-bar Ceiling Grid ²¹ SS 9/16" Screw Slot, 9/16" T-bar with Tegular tile ceiling FT Standard 1/2" Flange ^{3, 22} SF Spackle Flange (Trimless) ^{3, 15, 22} NFR Non-flanged Recessed | (Blank) PER Non-perimeter (Std.) Perimeter | UNV 120-277V 120 120V 277 277V 347 347V ²³ | (Blank) None EM 1SE 1 Section 2SE 2 Section xSE x Section | (Blank) Matte White RAL #9003 (Std.) *BK Black RAL #9011 *SV Silver (RAL #9022) **CC Custom Color ¹⁸ *CSS Custom Canopy Color (White is Std.) *AMB Anti-Microbial Coating (Matte Skye White) <small>* Non-standard finish with extra charge. ** CC: additional charge & set up fee. Provide RAL# code.</small> |

LED DRIVER

| | | | |
|--|--|--|--|
| (Blank) ES566 SD40 SDXX PHSR PHDL TDM TD30/70 TDXX/YY | 0-10V dim to 1% (Std.) (dim both uplight and downlight simultaneously) eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim 40% / 100% Bi-Level Step dim XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%) Philips Xitanium Sensor-Ready, Dali 5%~100% dim. Philips Xitanium DALI driver, Dim to 5% Triac Dim. (120V only) 30% / 70% / 100% Tri-Level Step dim XX% / YY% / 100% Tri-Level Step dim (Specify XX, YY : 10% ~ 70%) | LDE1 ELV TRIOT DTO DMX DLM LTEA2W BLT | Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim ELV compatible (reverse-phase or trailing-edge), (120V only) 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) ²⁶ Bluetooth Mesh System (contact factory for more information) |
|--|--|--|--|

CUBE2

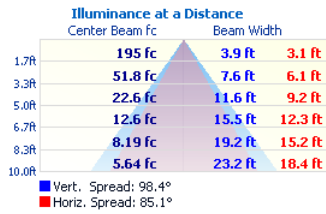
| OPTIONS | | LIGHTING CONTROL SYSTEM | |
|---|--|--|--|
| STB Slip Through Bracket ⁴ HC90-11 90° Horizontal Lit Connector, 1'x1' ^{24, 27} HC90-12 90° Horizontal Lit Connector, 1'x2' ^{24, 27} HC90-21 90° Horizontal Lit Connector, 2'x1' ^{24, 27} HC90-22 90° Horizontal Lit Connector, 2'x2' ²⁷ HC135-22 135° Horizontal Lit Connector, 2'x2' ^{24, 27} TC T-Type Lit Connector ²⁴ XC X-Type Lit Connector ²⁴ CW90 Ceiling to Wall corner connector ¹⁹ EMG8 1296 LUMEN EM Battery Backup (CEC Compliant EM) ^{9, 28} EMG15 2430 LUMEN EM Battery Backup (CEC Compliant EM) ^{9, 28} EMG20 3240 LUMEN EM Battery Backup (CEC Compliant EM) ^{9, 28} EMG25 4050 LUMEN EM Battery Backup (CEC Compliant EM) ^{9, 28} ELCU-200 Fail-to-on Emergency lighting, UL924 ¹⁰ GLR Fast Blow Fuse ²⁵ GMF Slow Blow Fuse ²⁵ 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 O7W Optional 7 Years Limited Warranty ⁷ O10W Optional 10 Years Limited Warranty ⁷ AMS Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming ³⁰ DPMS Daylight Dimming Photo Sensor (0-10 VDC Control), (LSR-301-S required if FD-301 is installed) ²⁹ SO Dimming Wires connected to Sensor Only (available option on FS-205 non-Bluetooth AMS sensor only) ⁸ LSR-301-S Setup Remote Control for DPMS (Required for DPMS) LSR-301-P Occupant Remote Control for DPMS DROP 1/2" drop lens 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) CCEA Chicago Plenum | | LUTRON VIVE  Click Here! SNS200 <u><EasySense></u> EasySense Fixture-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) ^{16, 20} RS-IR IR dongle v2.0 for EasySense control SU-5E <u><Enlighted></u> 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) ¹⁷ RS-WS Enlighted Room controller providing basic control functions of a standard wall switch with preset dimming capability <u><Bluetooth></u> IFS105SE Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming PPA102S Bluetooth Powerpack (Consult factory for installation location) CASAMBI Contact factory for CASAMBI READY options | |

NOTES:

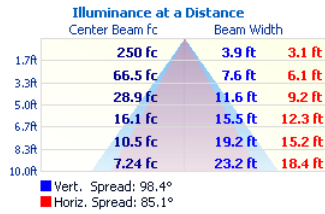
- Specify only when Continuous Row Mount.
- No need to select, if same as row length and section length.
- Requires # STB as standard.
- Standard with "FT" and "SF" mounting.
- Comes with 1pc 8ft lens.
- EM is installed in last 4' of luminaire sections. Separate section required 2SE or specified. Must specify voltage, not available with 347V.
- 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.
- Lumen per watt is around 15% less than standard CRI (80+).
- Available with C9 (CRI 90+) only.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
- Cord is available in white or black. (Black is not available for the EM option)
- Available with 4ft and 8ft only.
- 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.
- Only applicable for FT and SF mounting option.
- Refer to Advanced Grouping Datasheet for its default setting and compatible wireless switches.
- Compatible with T-bar ceiling type.
- Compatible with hard ceiling type.
- 347V cannot work with Emergency Battery Backup.
- Only available for -FT mounting application.
- Must specify voltage, not available with 347V.
- Not available with any 1ft individual configuration due to space limitations.
- Refer to a separate CUBE2-HC90 spec sheet to find more information.
- For 3ft configuration, EM can only be remote mounted. Remote box is provided by others.
- Automatic on/off is not available. For automatic on/off, additional occupancy sensor is required or a manual on/off switch can be done.
- With TDM/ELV/SDxx/TDxx: Only available with line-voltage on/off occupancy sensor.

CUBE2

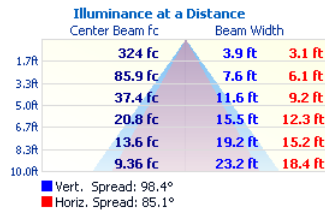
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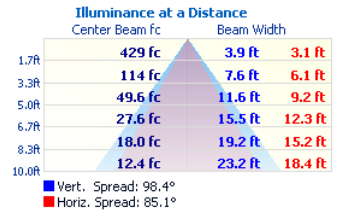
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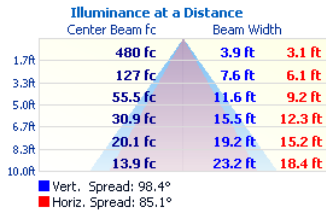
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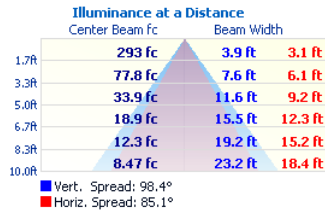
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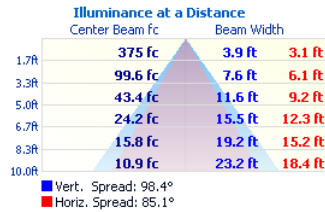
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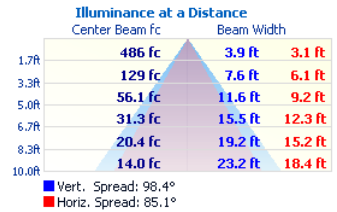
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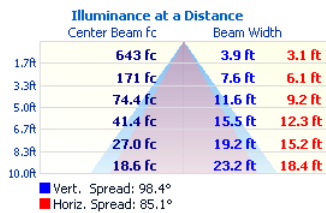
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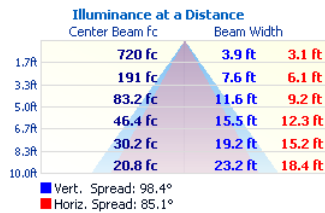
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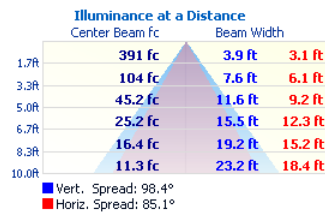
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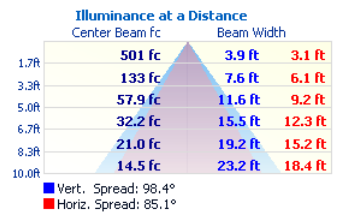
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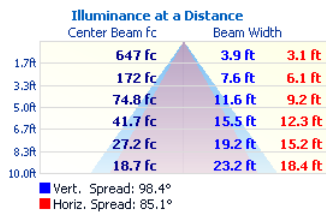
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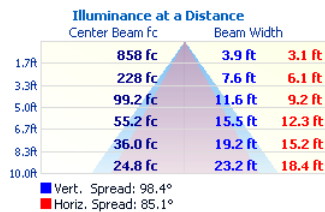
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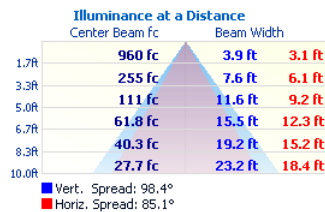
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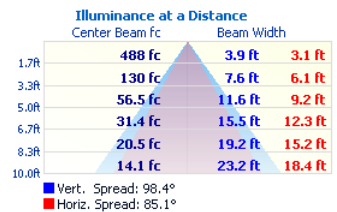
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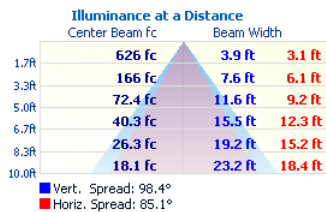
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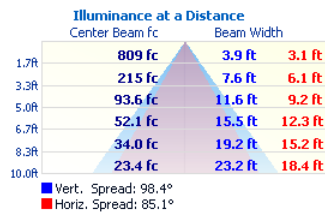
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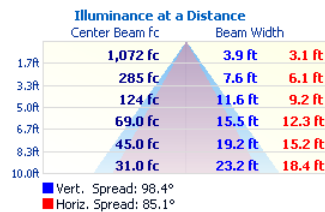
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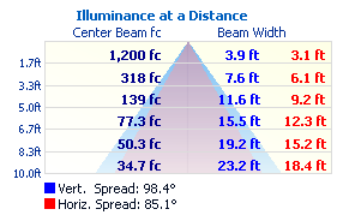
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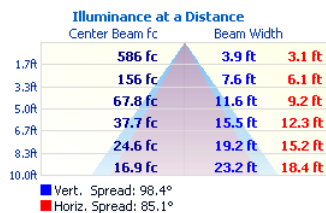
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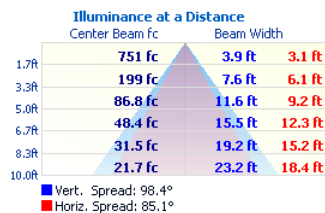
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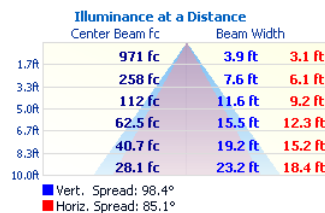
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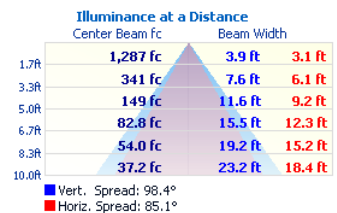
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CUBE2-6-36L

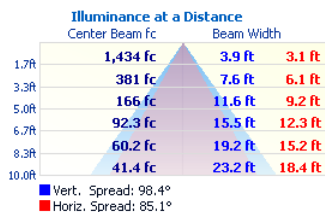


CUBE2-6-48L

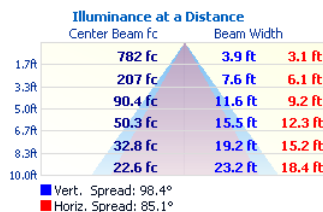


CUBE2

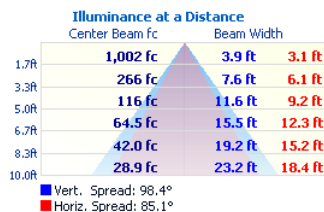
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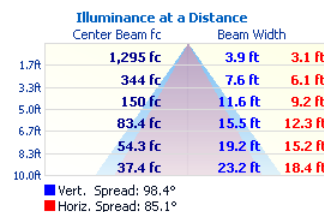
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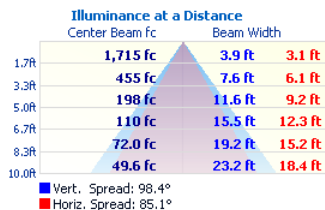
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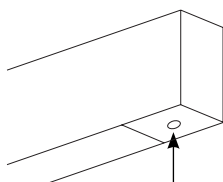
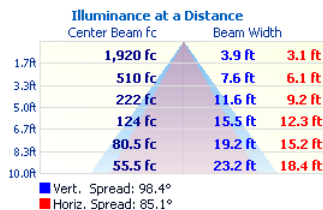
CUBE2-8-36L



CUBE2-8-48L



CUBE2-8-54L



Sensor Plate

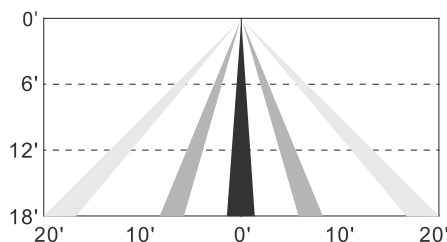


Lutron Vive Integral
fixture control installation

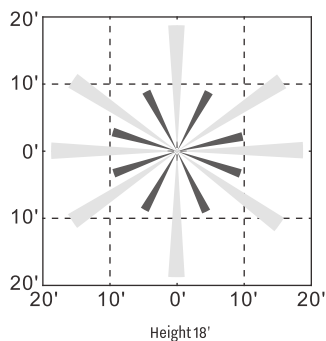


EasySense
fixture-mount installation

SIDE VIEW



TOP VIEW

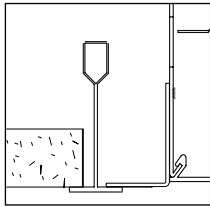


AMS, IFS105SE coverage pattern

CUBE2

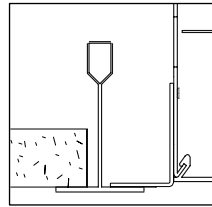
- MOUNTING DETAILS

9/16" Grid Mounting Options



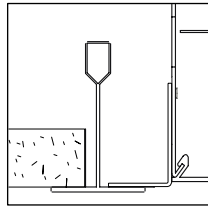
9/16" Grid, Standard Tile:
Specify G1 in part #

15/16" Grid Mounting Options



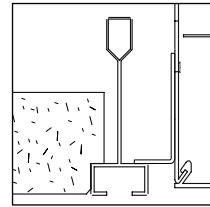
15/16" Grid, Standard Tile:
Specify G1 in part #

1" Grid Mounting Options



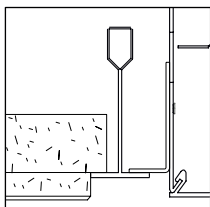
1" Grid, Standard Tile:
Specify G1 in part #

9/16" Screw Slot Mounting



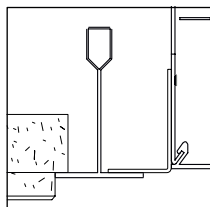
Screw Slot Grid:
Specify SS in part #

9/16" T-bar with Tegular Tile



9/16" T-bar with Tegular Tile:
Specify SS in part #

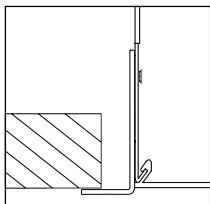
15/16" Grid with Tegular Tile



15/16" Grid with Tegular Tile:
Specify G1 in part #

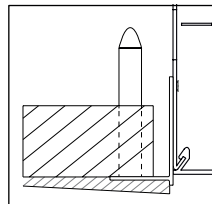
- DRYWALL RECESSED CEILING

Flanged Trim



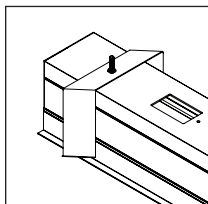
Exposed Flange Detail:
Specify FT in part #

Spackle Flanged Trim



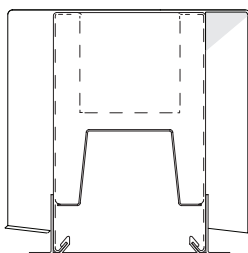
Specify SF in part #

Rotating Crossbar

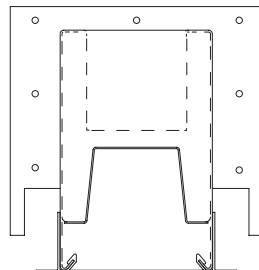


Rotating Crossbar is provided
with FT and SF type
as standard

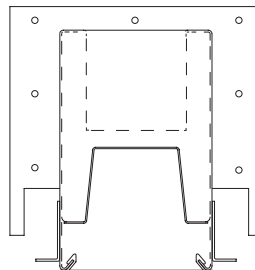
Drywall



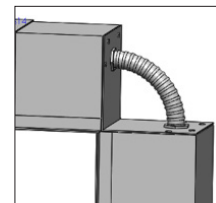
T-bar (G-1)



Screw Slot (SS)



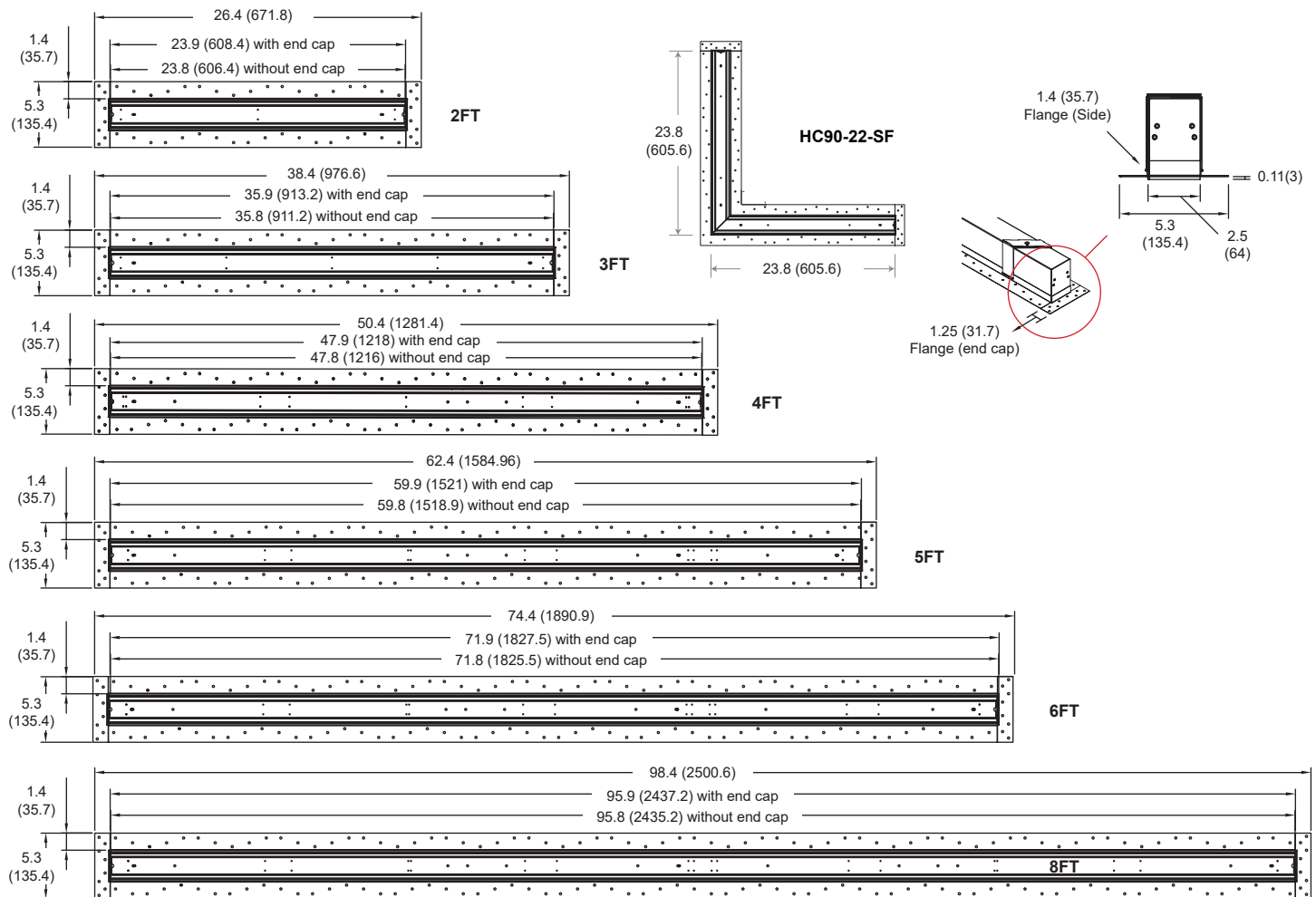
CW90



ARCHITECTURAL LINEAR RECESSED

CUBE2-SF

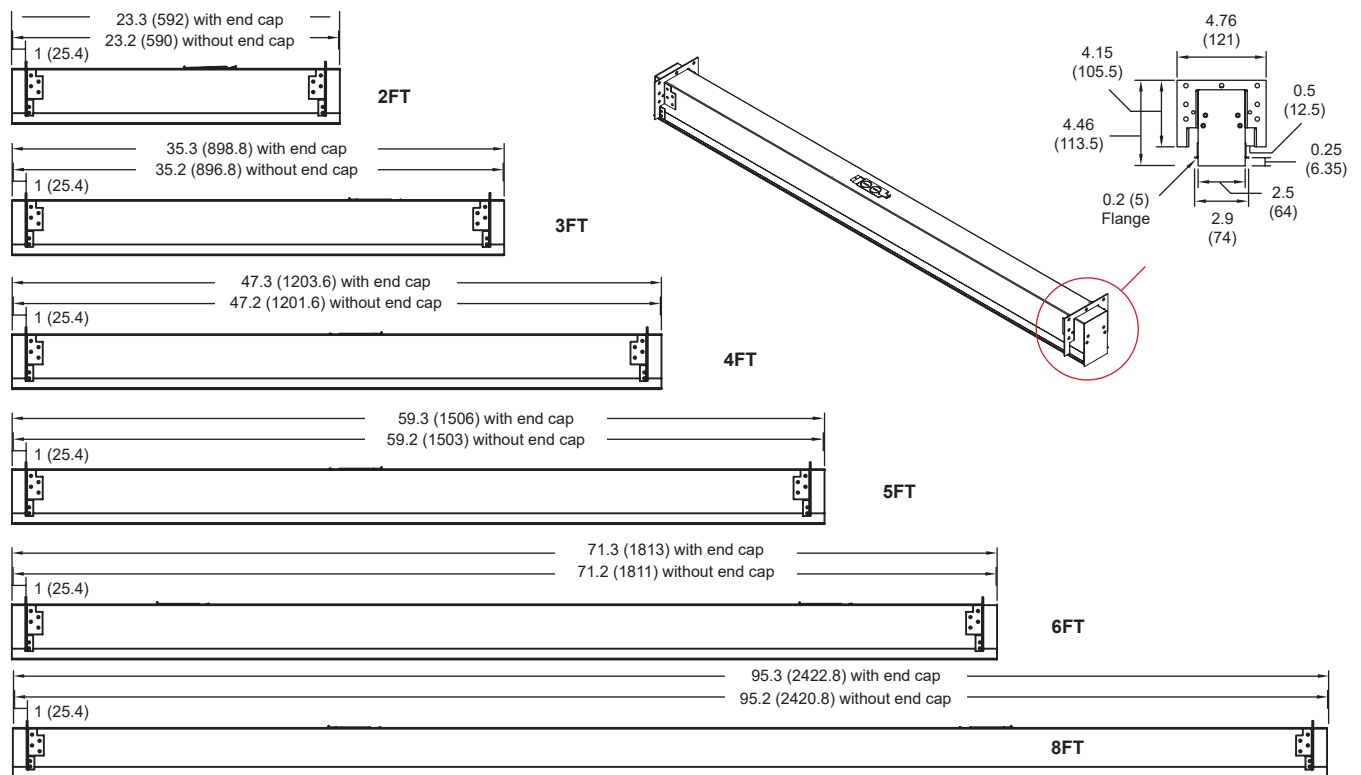
All dimensions are in inches (millimeters).



CUBE2-SS

* All -CONs are designed to fit the standard ceiling grid.

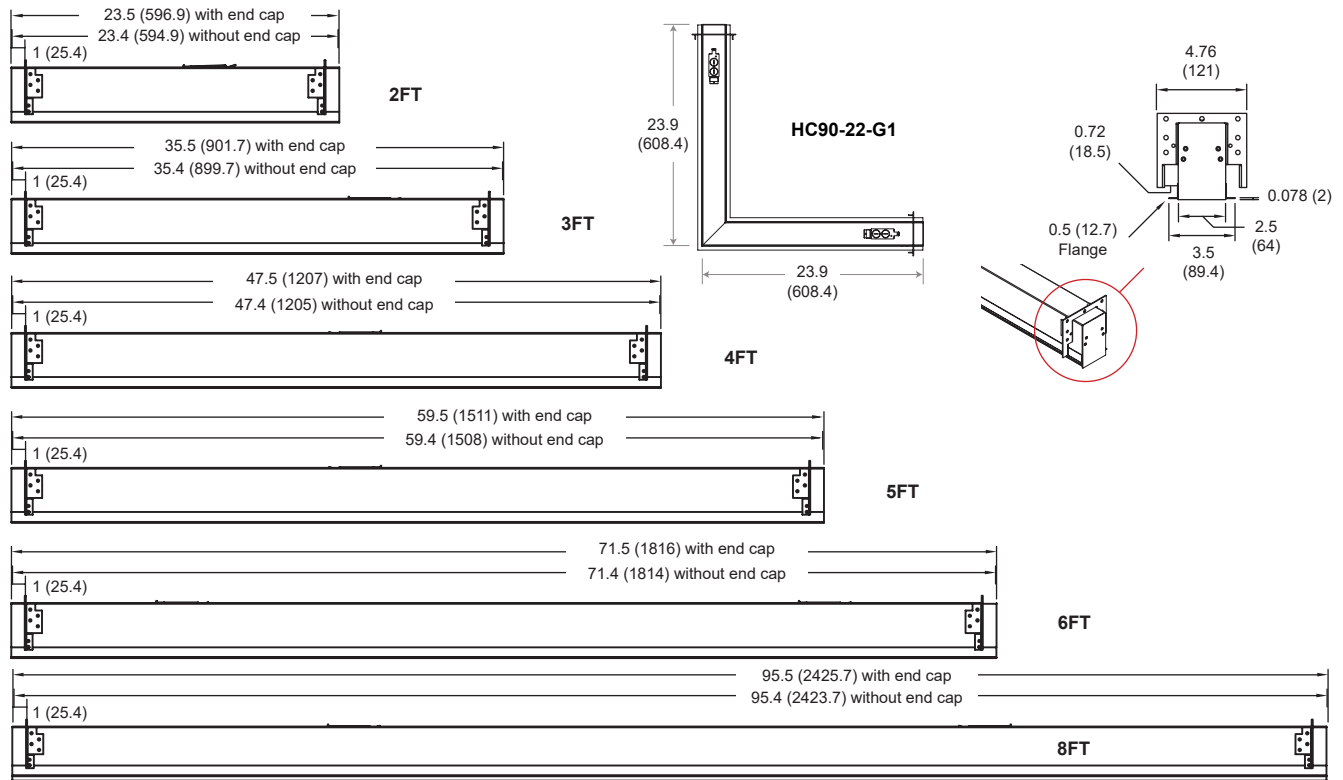
All dimensions are in inches (millimeters).



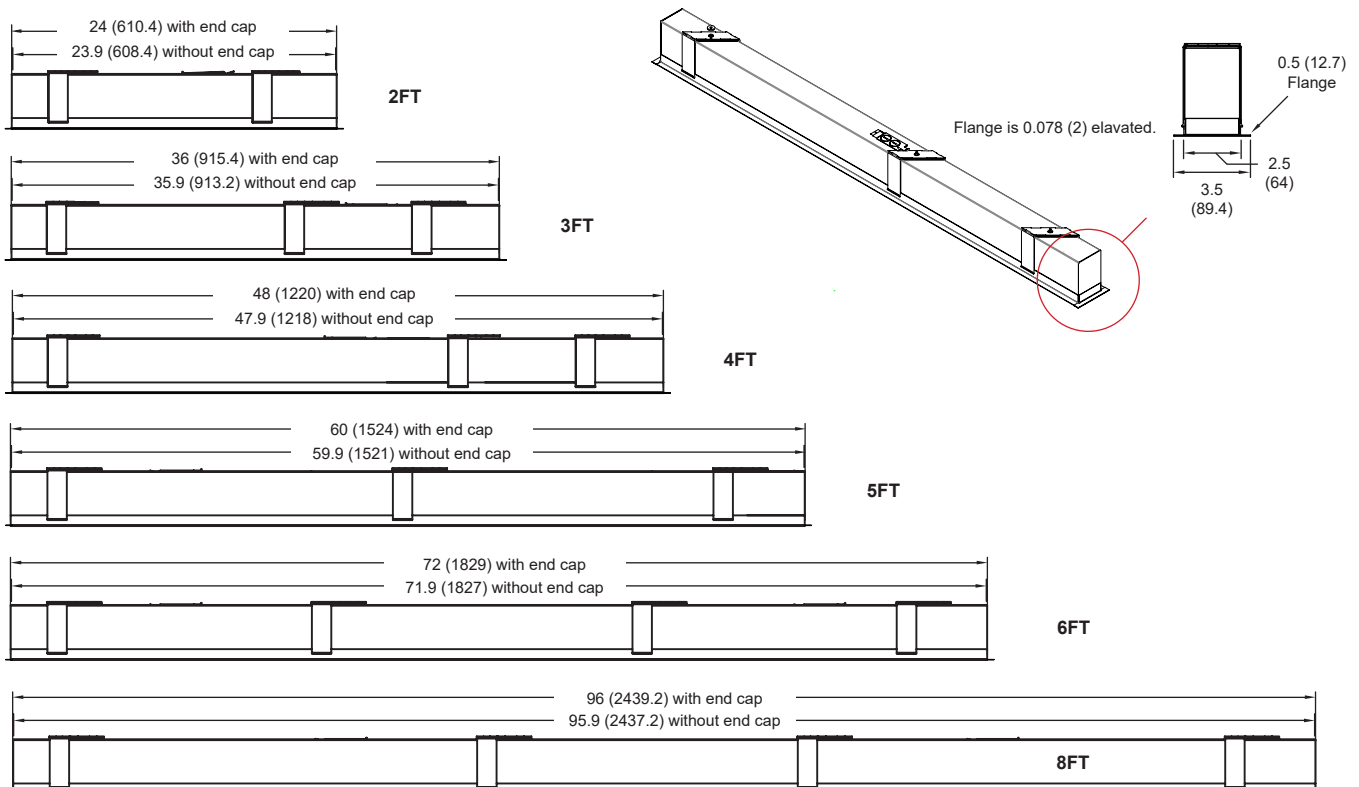
* All -CONs are designed to fit the standard ceiling grid.

All dimensions are in inches (millimeters).

CUBE2-G1

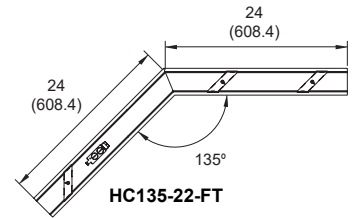
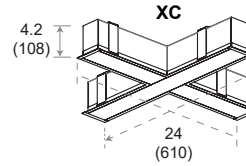
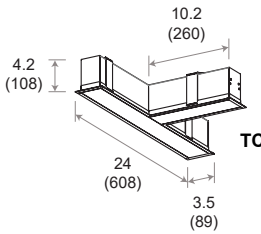
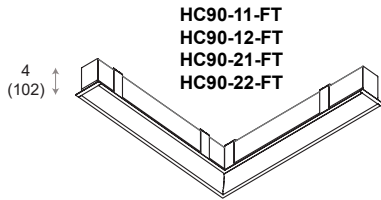


CUBE2-FT



CUBE2

- LIT CONNECTOR



* See a separate CUBE2-HC90 spec sheet to find more information.

* See a separate CUBE2-HC90 spec sheet to find more information.

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> | 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 |
| LDE1 | Lutron Hi-lume 1% EcoSystem | <Lutron> | Nova T: NTFTV Diva - DDTV-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-1ECO-S, QSN-2ECO-S GRAFIK Eye QS/Homeworks QS control unit (120V only): QSGR-J- 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> | Single Rocker Self-Powered Light Switch (on/off, dim-up/down) Ilumra# ZBT-S1AWH Digi-Key# 1082-1033-ND Dual Rocker Self-Powered Light Switch (on/off, dim-up/down, scene1,2) 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 |
| | | <Leviton> | 6641, IlumaTech 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. |
| 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.

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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, outside dimension).

UTOPIA
LIGHTING