

CUBE2-WW

Project Name:	
Type:	



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.

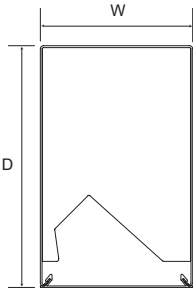
- MOUNTING:**
- Compatible with most ceiling including T-bar, screw slot and drywall.
- LED:**
- High quality arrayLEDs.
 - LM80
 - Color Temperature: 2700/3000/3500/4000/5000 (K).
 - Color Rendering Index: >80 (optional>90).
 - Nominal Lamp Life: 100,000 hours.
 - Reported L70 hours: +60,000 (55°C).
- 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).
- 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) ⁵
 - Bluetooth Mesh System available, please contact factory for more information.

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
CUBE 2 2FT	8.14	3.69
CUBE 2 3FT	11.00	4.99
CUBE 2 4FT	12.89	5.85
CUBE 2 8FT	25.45	11.55
CUBE 2 HC90	17.37	7.88
CUBE 2 X	17.63	8.00
CUBE 2 T	12.76	5.79



Specifications: CUBE2

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

All dimensions are in inches (millimeters).

CONFIGURATIONS

Series	Size	Model #	AC Input	Fixture Lumen Output (4000K)		Lumen Efficiency (4000K)
CUBE2	2	18L	9.9W	918.5 lm (100% Down)	918.5 lm	92.78 lm/W
		27L	14.85W	1377.7 lm (100% Down)	1377.7 lm	92.78 lm/W
		36L	19.8W	1837.2 lm (100% Down)	1837.2 lm	92.78 lm/W
		48L	26.4W	2449.4 lm (100% Down)	2449.4 lm	92.78 lm/W
		54L	29.7W	2755.5 lm (100% Down)	2755.5 lm	92.78 lm/W
	3	18L	14.85W	1377.7 lm (100% Down)	1377.7 lm	92.78 lm/W
		27L	22.27W	2066.2 lm (100% Down)	2066.2 lm	92.78 lm/W
		36L	29.7W	2755.5 lm (100% Down)	2755.5 lm	92.78 lm/W
		48L	39.6W	3674 lm (100% Down)	3674 lm	92.78 lm/W
		54L	44.55W	4133.3 lm (100% Down)	4133.3 lm	92.78 lm/W
	4	18L	19.8W	1837.2 lm (100% Down)	1837.2 lm	92.78 lm/W
		27L	29.7W	2755.5 lm (100% Down)	2755.5 lm	92.78 lm/W
		36L	39.6W	3674 lm (100% Down)	3674 lm	92.78 lm/W
		48L	52.8W	4898.7 lm (100% Down)	4898.7 lm	92.78 lm/W
		54L	59.4W	5511.1 lm (100% Down)	5511.1 lm	92.78 lm/W
	6	18L	29.7W	2755.5 lm (100% Down)	2755.5 lm	92.78 lm/W
		27L	44.55W	4133.3 lm (100% Down)	4133.3 lm	92.78 lm/W
		36L	59.4W	5511.1 lm (100% Down)	5511.1 lm	92.78 lm/W
		48L	79.2W	7348.1 lm (100% Down)	7348.1 lm	92.78 lm/W
		54L	89.1W	8266.7 lm (100% Down)	8266.7 lm	92.78 lm/W
	8	18L	39.6W	3674 lm (100% Down)	3674 lm	92.78 lm/W
		27L	59.4W	5511.1 lm (100% Down)	5511.1 lm	92.78 lm/W
		36L	79.2W	7348.1 lm (100% Down)	7348.1 lm	92.78 lm/W
		48L	105.6W	9797.5 lm (100% Down)	9797.5 lm	92.78 lm/W
		54L	118.8W	11022.2 lm (100% Down)	11022.2 lm	92.78 lm/W

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

CUBE2-WW

ORDERING INFORMATION

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

MODEL	ROW ¹	SECTION ²	LED Downlight (per/4ft section)	COLOR TEMP.	CRI
CUBE2-WW-IND (Individual Mount) CUBE2-WW-CON (Continuous Row Mount) * Number of circuit(s) should be determined by the customer prior to ordering the continuous run considering the AC input voltage and total run wattage.	xx¹ Specify nominal overall row length in 1' increments (Continuous runs)	2 2' Length 3 3' Length 4 4' Length 6 6' Length 8 8' Length ³	(Blank) No Downlight ¹⁵ D18L 18W LED (734 lm/ft) D27L 27W LED (924 lm/ft) D36L 36W LED (991 lm/ft) D48L 48W LED (1384 lm/ft) D54L 54W LED (1467 lm/ft)	(Blank) 2700K ¹⁶ 3000K 3500K 4000K 5000K	(Blank) 80+ CRI C9 90+ CRI ⁸
CUBE2-WW-CM (Custom)	Must provide a sketch on the last page		* Contact factory for custom wattage or lumen requirement.		

MOUNTING	VOLTAGE	EM SECTION ⁴	FIXTURE FINISH
FT Standard 1/2" Flange ^{19, 20} SF Spackle Flange ^{19, 20} G1 9/16", 15/16", 1" T-bar Ceiling Grid ²¹ NFR Non-flanged Recessed	UNV 120-277V 120 120V 277 277V 347 347V ¹¹	(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 ⁹ *AMB Anti-Microbial Coating (Matte Skye White) * Non-standard finish with extra charge. ** Additional charge & set up fee.

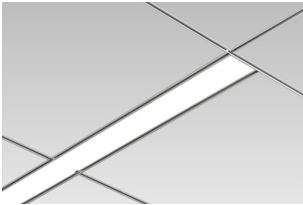
LED DRIVER	DISTRIBUTION	OPTIONS
(Blank) 0-10V dim to 1% (Std.) (dim both uplight and downlight simultaneously) ES566 eidoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim SD40 40% / 100% Bi-Level Step dim SDXX XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%) PHSR Philips Xitanium Sensor-Ready, Dali 5%~100% dim. PHDL Philips Xitanium DALI driver, Dim to 5% 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%) LDE1 Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim ELV ELV compatible (reverse-phase or trailing-edge), (120V only) 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 DIMT Tri-mode dimming (Triac, ELV, 0-10V) LTEA2W Hi-lume 1% 2-wire LED driver (120V forward phase only) ¹³	(Blank) Wall Wash (Std.)	CW90 Ceiling to Wall corner connector ¹⁰ EMG8 1296 LUMEN EM Battery Backup (CEC Compliant EM) ^{6, 14} EMG15 2430 LUMEN EM Battery Backup (CEC Compliant EM) ^{6, 14} EMG20 3240 LUMEN EM Battery Backup (CEC Compliant EM) ^{6, 14} EMG25 4050 LUMEN EM Battery Backup (CEC Compliant EM) ^{6, 14} ESRN Emergency Bypass Shunt Load Relay, UL924 ^{7, 22} GTD Bodine Generator Transfer Device GTD10DIM Bodine Generator Transfer Device (0-10VDC Dimmer Override) GLR Fast Blow Fuse ¹² GMF Slow Blow Fuse ¹² ARRA Assembled in USA for Buy American Act BAA Buy American Act compliant O7W Optional 7 Years Limited Warranty ⁵ O10W Optional 10 Years Limited Warranty ⁵ COC Separated EM feed for City of Chicago code compliance STB Slip Through Bracket ²⁰
 BLT Bluetooth Mesh System (contact factory for more information)		

CONTROLS	
ADPMS	<Integrated Sensors> Bluetooth Mesh Wireless Sensor. Occupancy/ Daylight Harvesting/ 0-10V Dimming

LIGHTING CONTROL SYSTEM			
LUTRON VIVE	<Lutron Vive System Enabled>  Click Here!	PPA102S	<Bluetooth> Bluetooth Powerpack (Consult factory for installation location)
SNS200	<EasySense> EasySense Fixture-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) ^{17, 18}		
SNS200C	EasySense Ceiling-mount occupancy sensing, daylight harvesting and task tuning in one device ^{17, 18}		
RS-IR	IR dongle v2.0 for EasySense control		

NOTES:

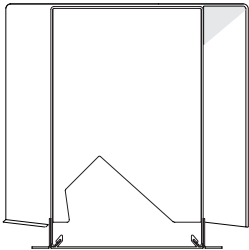
- Specify only when Continuous Row Mount.
- No need to select, if same as row length and section length.
- Comes with 1pc 8ft lens.
- EM is installed in last 4' of luminaire sections. Separate section required 2SE or specified. Must specify voltage, not available with 347V.
- This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation.
- Contact factory for other emergency ballast options.
- Shipped separately.
- Lumen per watt is around 15% less than standard CRI (80+).
- Refer to color charts (RAL and/or Cardinal) in the separate attachment.
- Only applicable for FT and SF mounting option.
- 347V cannot work with Emergency Battery Backup.
- Must specify voltage, not available with 347V.
- Not available with any 1ft individual configuration due to space limitations.
- For 3ft configuration, EM can only be remote mounted. Remote box is provided by others.
- Downlight cover may ship separately depending on the configuration.
- Available with C9 (CRI 90+) only.
- 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.
- Requires # STB as standard.
- Compatible with hard ceiling type.
- Compatible with T-bar ceiling type.
- UL924 Emergency Bypass Shunt Load Relay. Automatically switches emergency egress lighting to full light output on loss of normal power, until normal power is restored. 120-277VAC. Operating temperature: -30°F (-34°C) to 140°F (60°C).



RECESSED

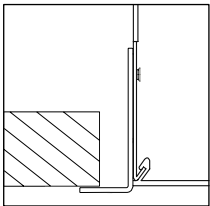
- MOUNTING DETAILS

Drywall



- INACCESSIBLE
CEILING MOUNTING

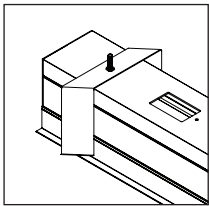
Flange Detail



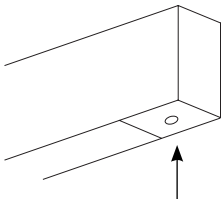
Exposed Flange Detail:
Specify FT in part #

- SPECIALTY MOUNTS

Rotating Crossbar



Unavailable Structure Support:
Specify STB in part #



Sensor Plate



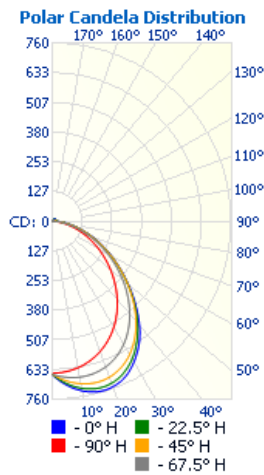
Lutron Vive Integral
fixture control installation



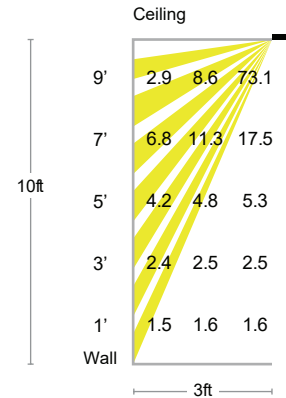
EasySense
fixture-mount installation

CUBE2-WW

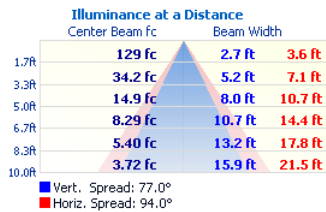
CUBE2-D18L-WW



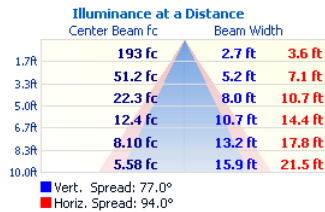
CUBE2-4-D18L-WW



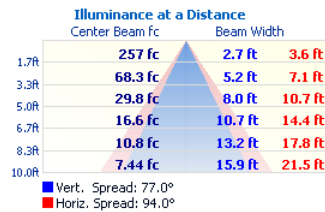
CUBE2-2-D18L-WW



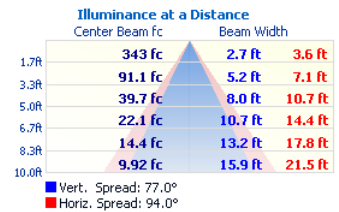
CUBE2-2-D27L-WW



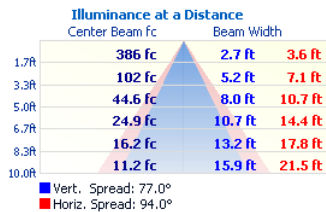
CUBE2-2-D36L-WW



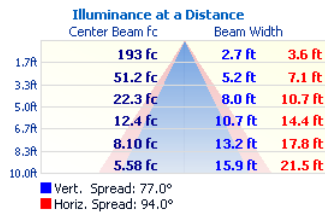
CUBE2-2-D48L-WW



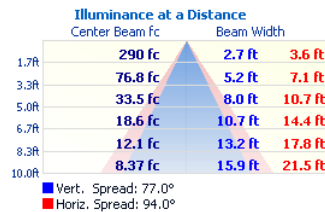
CUBE2-2-D54L-WW



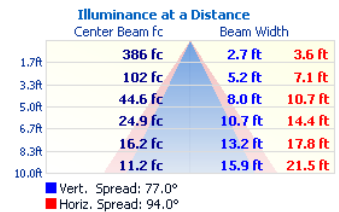
CUBE2-3-D18L-WW



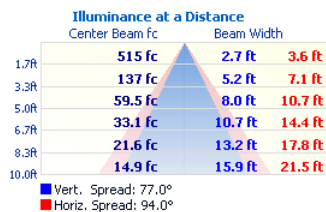
CUBE2-3-D27L-WW



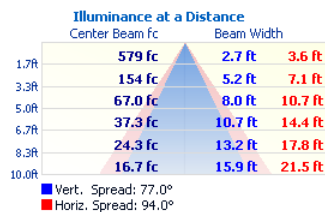
CUBE2-3-D36L-WW



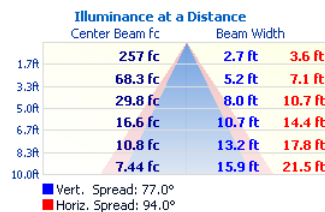
CUBE2-3-D48L-WW



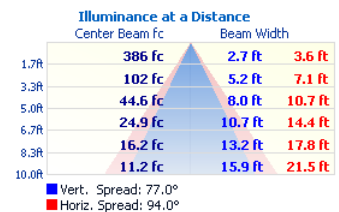
CUBE2-3-D54L-WW



CUBE2-4-D18L-WW

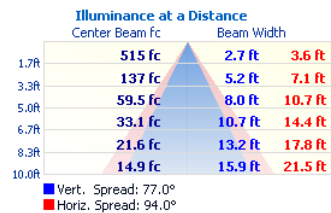


CUBE2-4-D27L-WW

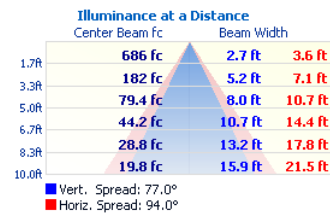


CUBE2-WW

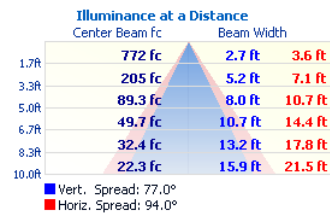
CUBE2-4-D36L-WW



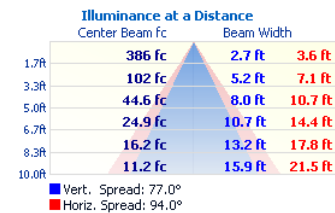
CUBE2-4-D48L-WW



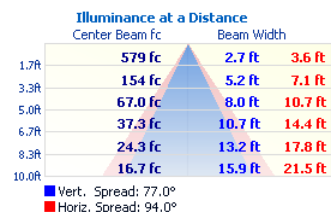
CUBE2-4-D54L-WW



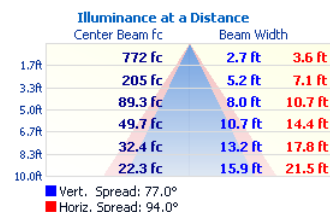
CUBE2-6-D18L-WW



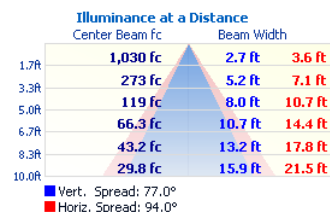
CUBE2-6-D27L-WW



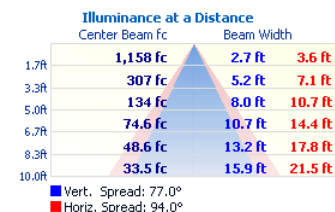
CUBE2-6-D36L-WW



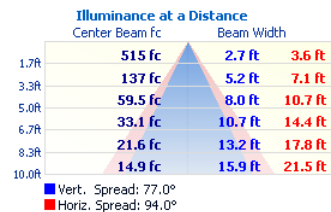
CUBE2-6-D48L-WW



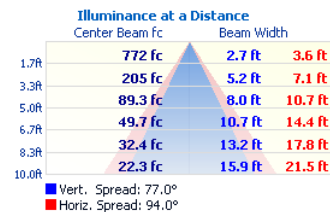
CUBE2-6-D54L-WW



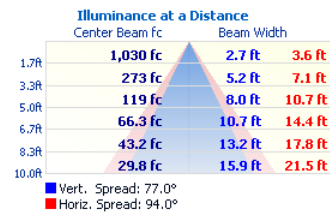
CUBE2-8-D18L-WW



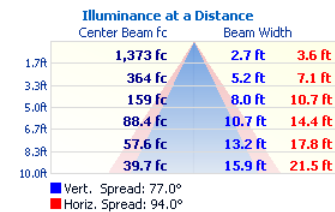
CUBE2-8-D27L-WW



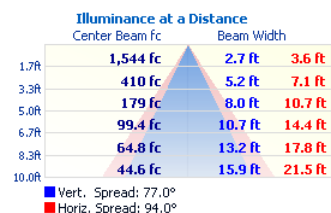
CUBE2-8-D36L-WW



CUBE2-8-D48L-WW



CUBE2-8-D54L-WW



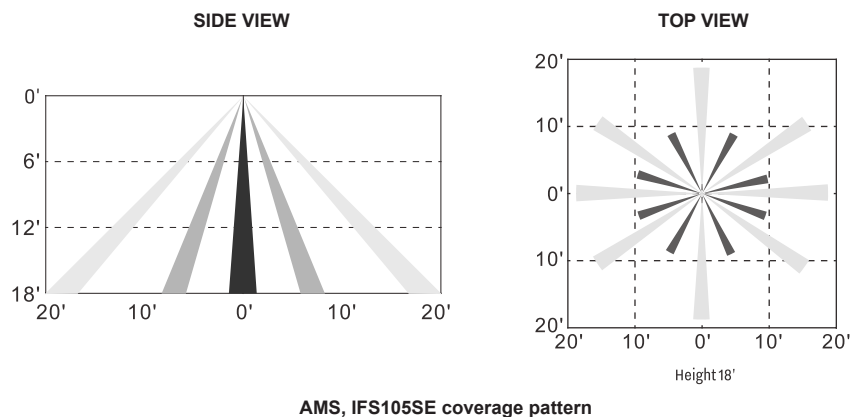
CUBE2-WW

COMPATIBLE DIMMER SWITCH (TABLE 1)

Model #	Brand	Compatible Dimmer Switch	
(Blank)	-	<Leviton>	IlumaTech 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>	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-AO8, 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): 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
		<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.



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).

A large grid of 30 columns and 30 rows, intended for sketching connector patterns. The grid is composed of thin gray lines forming a uniform square pattern.