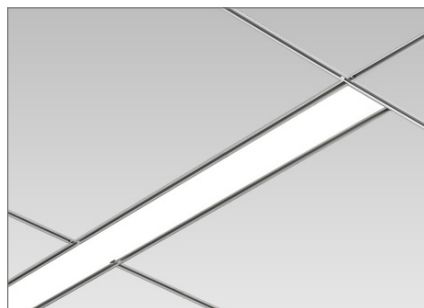


CUBE2

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).

- <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).
- 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

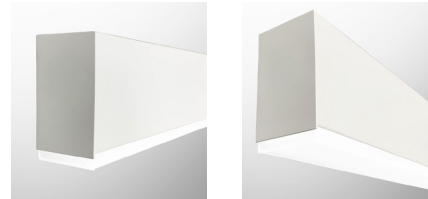
		Bi-Level		Tri-Level (Default)	
SW1	SW2	Config Range	Default	Config Range	Default
Close	Open	10% - 70%	40%	10% - 70%	30%
Open	Close	10% - 70%	40%	10% - 70%	70%
Close	Close	100%	100%	100%	100%
Open	Open	0%	0%	0%	0%

		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)	xx' Specify nominal overall row length in 1' increments (Continuous runs)	2 2' Length	D18L 18W LED (734 lm/ft)	-27K 2700K ¹²
CUBE2-CON (Continuous Row Mount)		3 3' Length	D27L 27W LED (924 lm/ft)	-30K 3000K
		4 4' Length	D36L 36W LED (991 lm/ft)	-35K 3500K
		5 5' Length	D54L 54W LED (1467 lm/ft)	-40K 4000K
		6 6' Length		-50K 5000K
		8 8' Length ⁵		
CUBE2-CM (Custom)	Must provide a sketch on the last page			


* 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.

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

CRI	MOUNTING	VOLTAGE	EM SECTION ⁶	FINISH ¹⁴
(Blank) C9	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	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) 0-10V dim to 1% (Std.) (dim both uplight and downlight simultaneously)	LDE1 Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim
ES566 eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim	ELV ELV compatible (reverse-phase or trailing-edge), (120V only)
SD40 40% / 100% Bi-Level Step dim	TRIO Tridonic IoT ready, 1-100% dim via Smart Module Interface (SMI), automated dimming/lighting controls via Enlighted Sensor Interface
SDXX XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%)	DTO 0-10V DIM-TO-OFF
PHSR Philips Xitanium Sensor-Ready, Dali 5%-100% dim.	DMX DMX512 control system (Only available with RGB+W option)
PHDL Philips Xitanium DALI driver, Dim to 5%	DLM Wattstopper's DLM interface (Only available with RGB+W option)
TDM Triac Dim. (120V only)	LTEA2W Hi-lume 1% 2-wire LED driver (120V forward phase only) ²⁵
TD30/70 30% / 70% / 100% Tri-Level Step dim	BLT Bluetooth Mesh System (contact factory for more information)
TDXX/YY XX% / YY% / 100% Tri-Level Step dim (Specify XX, YY : 10% ~ 70%)	

CUBE2

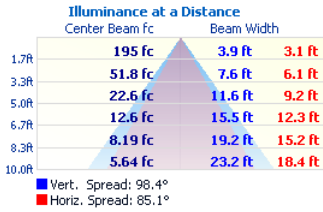
OPTIONS		LIGHTING CONTROL SYSTEM	
STB Slip Through Bracket ⁴ HC90-11 90° Horizontal Lit Connector, 1'x1' ^{24, 27} HC90-12 90° Horizontal Lit Connector, 1'x2' ^{24, 27} HC90-21 90° Horizontal Lit Connector, 2'x1' ^{24, 27} HC90-22 90° Horizontal Lit Connector, 2'x2' ²⁷ HC135-22 135° Horizontal Lit Connector, 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 O7W Optional 7 Years Limited Warranty ⁷ O10W Optional 10 Years Limited Warranty ⁷ AMS Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming 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 <EasySense> 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 <Enlighted> 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) ¹⁷ RS-WS Enlighted Room controller providing basic control functions of a standard wall switch with preset dimming capability <Bluetooth> IFS105SE Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming PPA102S Bluetooth Powerpack (Consult factory for installation location)		

NOTES:

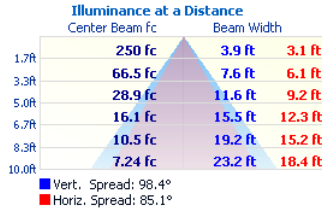
- Specify only when Continuous Row Mount.
- No need to select, if same as row length and section length.
- Requires # STB as standard.
- Standard with "FT" and "SF" mounting.
- Comes with 1pc 8ft lens.
- EM is installed in last 4' of luminaire sections. Separate section required 2SE or specified. Must 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.

CUBE2

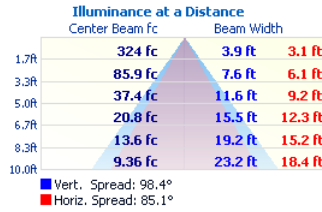
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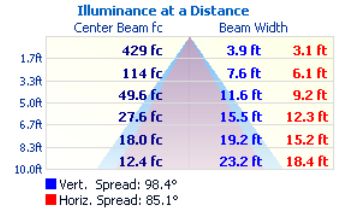
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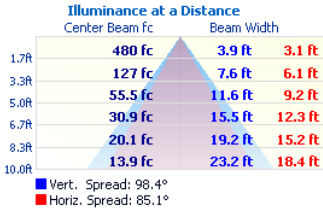
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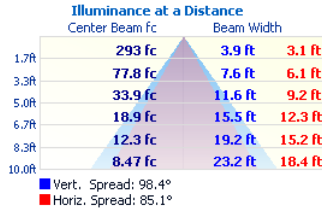
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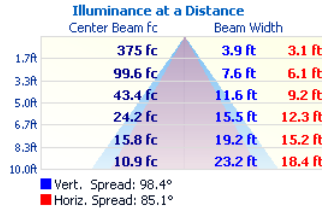
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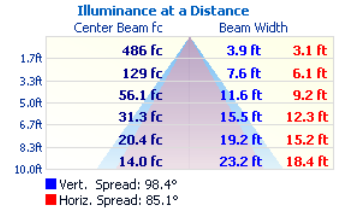
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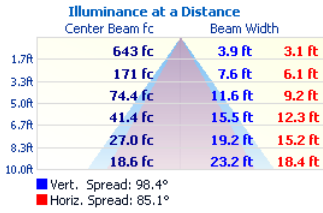
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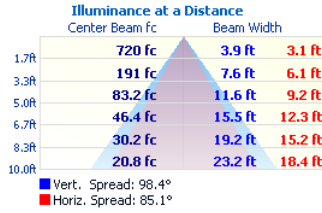
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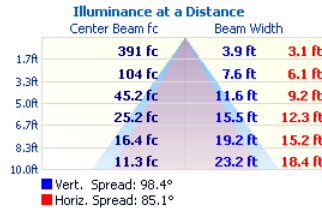
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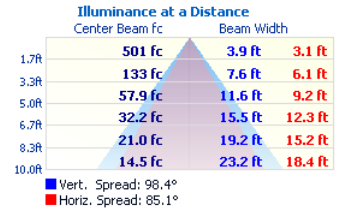
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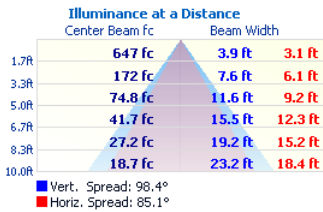
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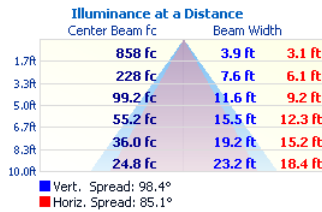
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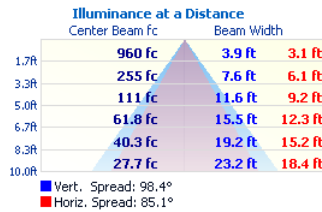
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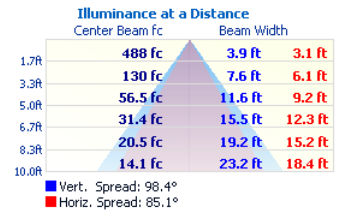
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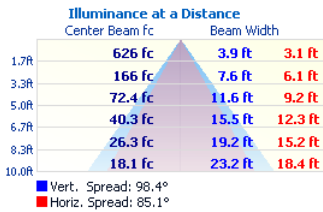
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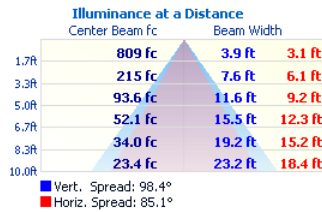
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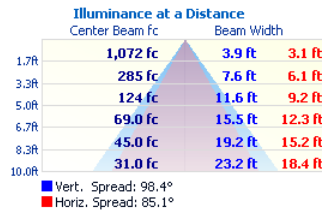
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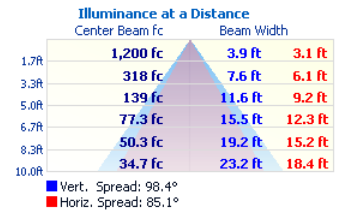
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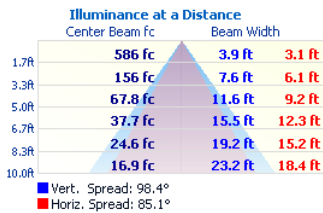
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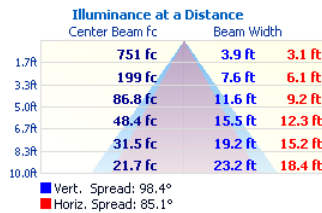
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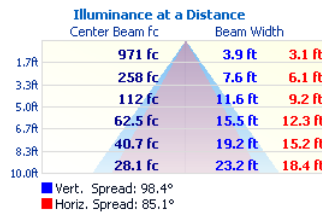
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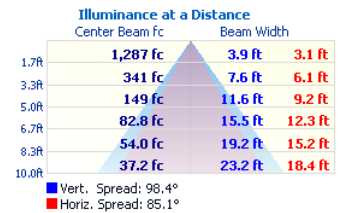
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CUBE2-6-36L

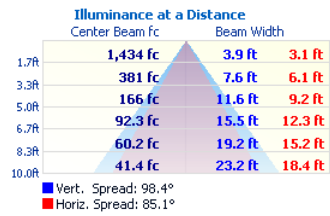


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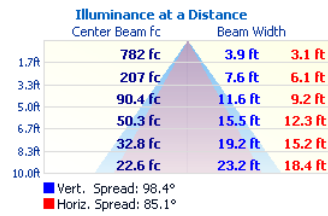


CUBE2

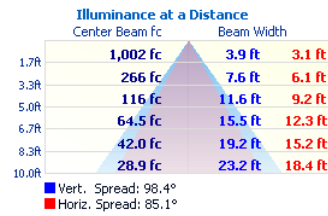
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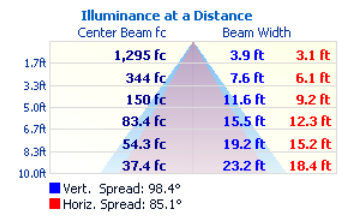
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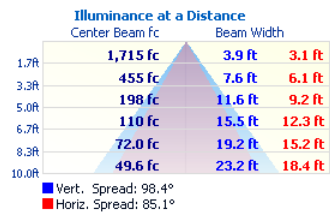
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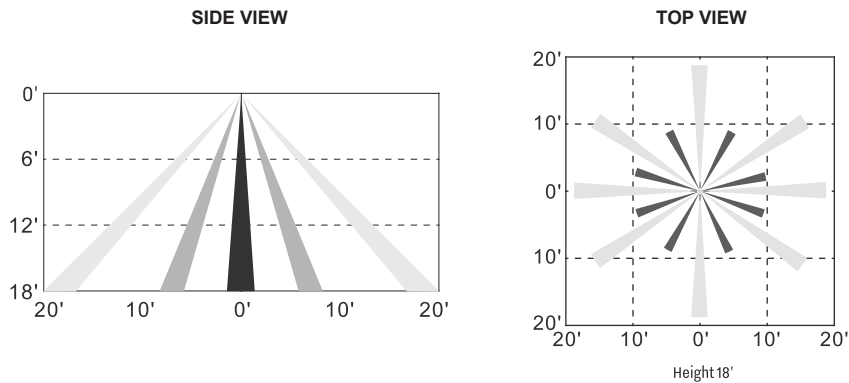
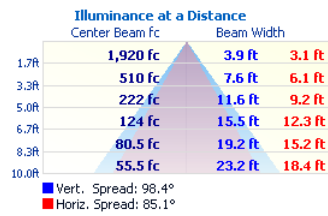
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CUBE2-8-48L



CUBE2-8-54L

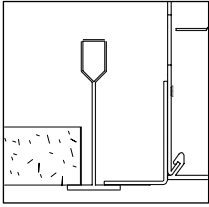


AMS, IFS105SE coverage pattern

CUBE2

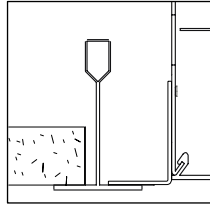
- MOUNTING DETAILS

9/16" Grid Mounting Options



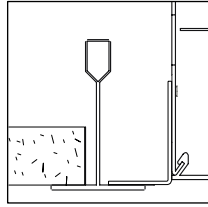
9/16" Grid, Standard Tile:
Specify G1 in part #

15/16" Grid Mounting Options



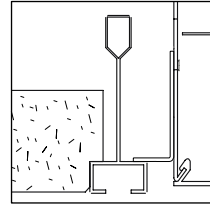
15/16" Grid, Standard Tile:
Specify G1 in part #

1" Grid Mounting Options



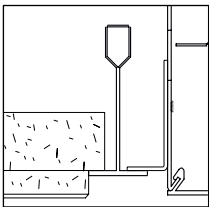
1" Grid, Standard Tile:
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9/16" Screw Slot Mounting



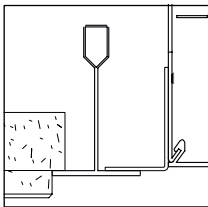
Screw Slot Grid:
Specify SS in part #

9/16" T-bar with Tegular Tile



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

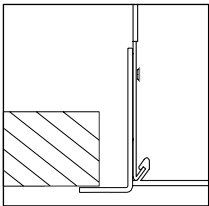
15/16" Grid with Tegular Tile



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

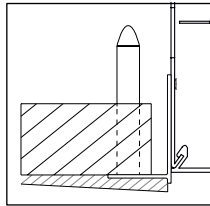
- DRYWALL RECESSED CEILING

Flanged Trim



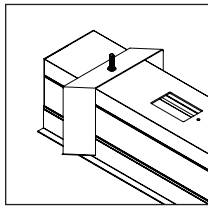
Exposed Flange Detail:
Specify FT in part #

Spackle Flanged Trim



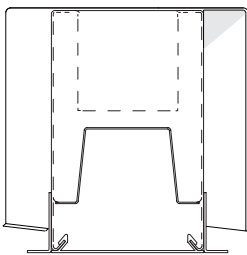
Specify SF in part #

Rotating Crossbar

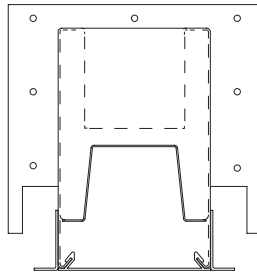


Rotating Crossbar is provided
with FT and SF type
as standard

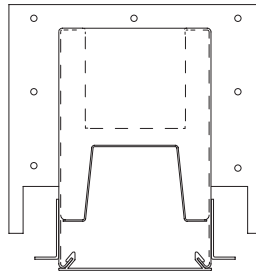
Drywall



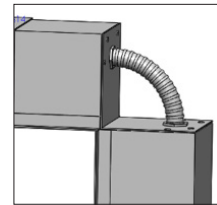
T-bar (G-1)



Screw Slot (SS)



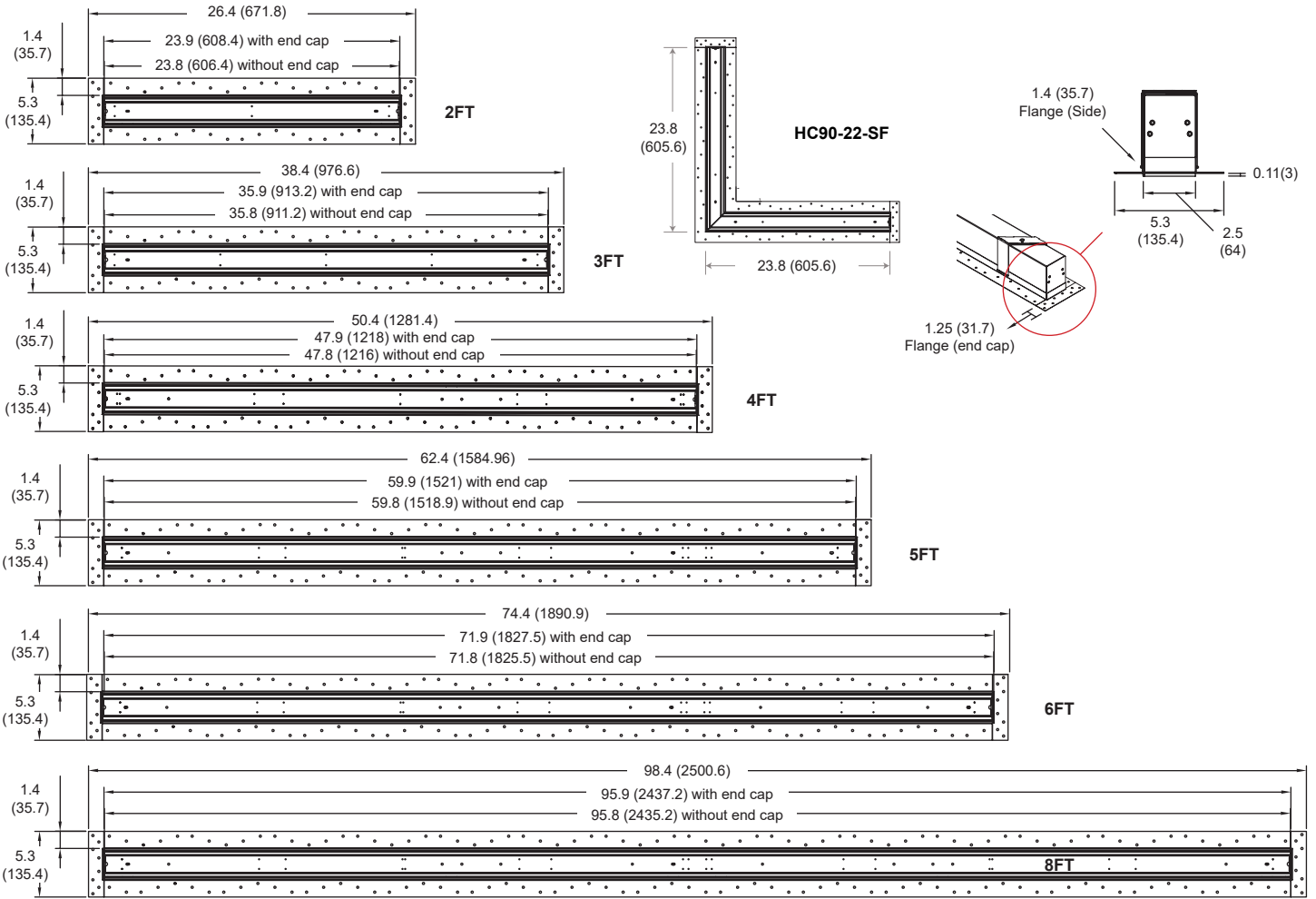
CW90



ARCHITECTURAL LINEAR RECESSED

CUBE2-SF

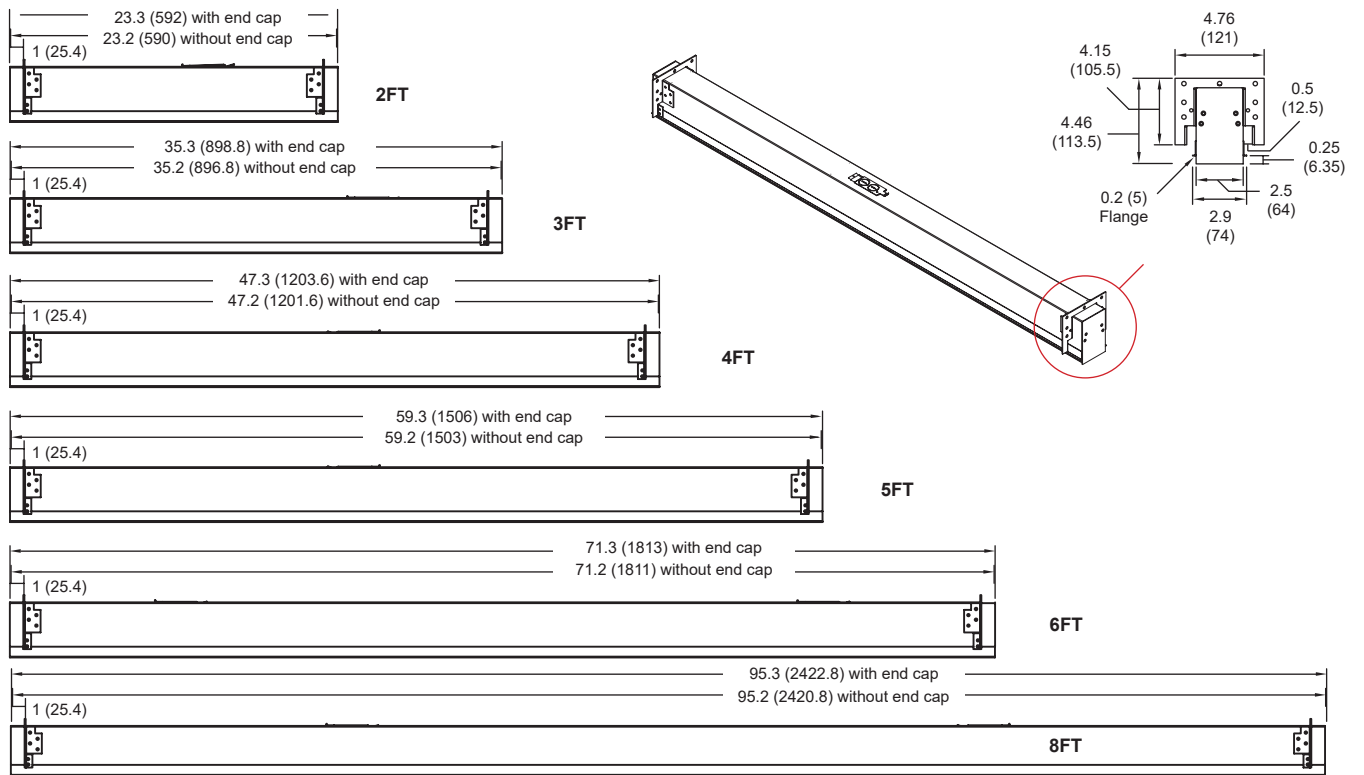
All dimensions are in inches (millimeters).



CUBE2-SS

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

All dimensions are in inches (millimeters).

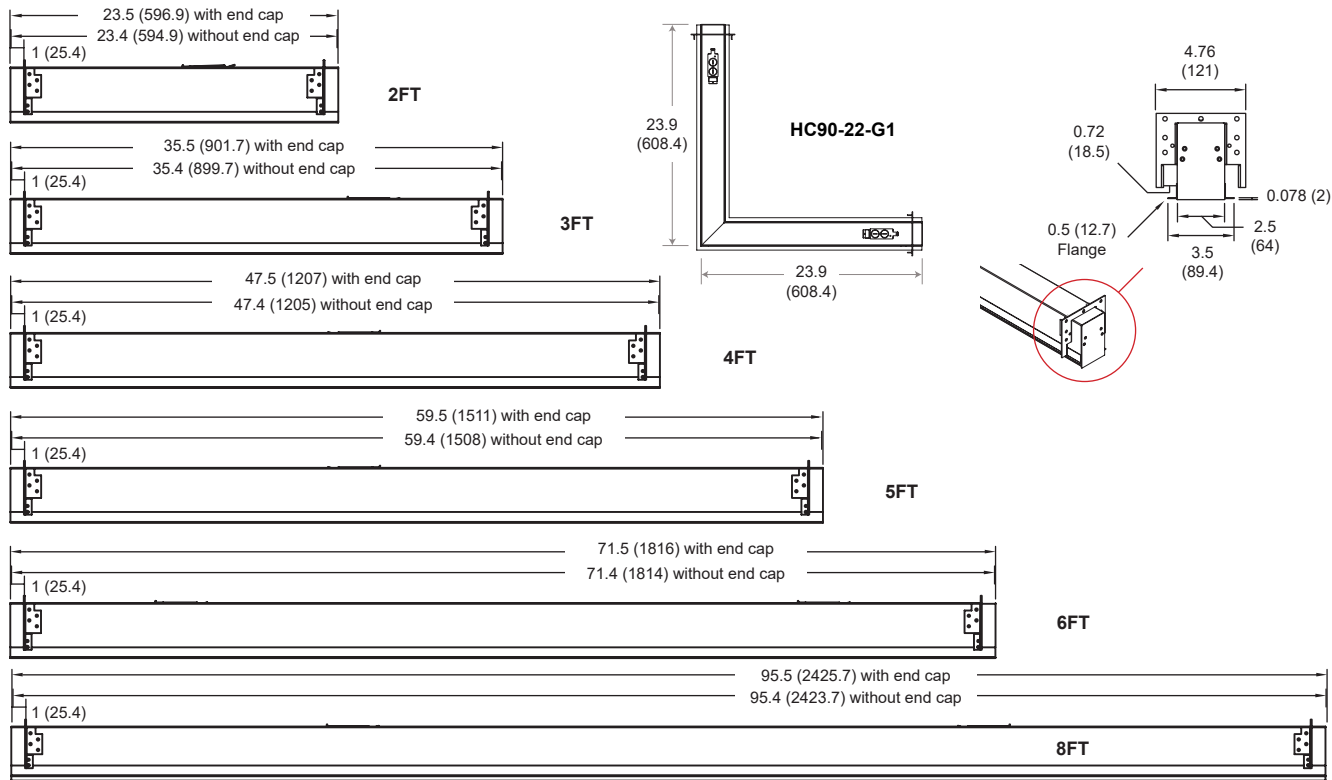


ARCHITECTURAL LINEAR RECESSED

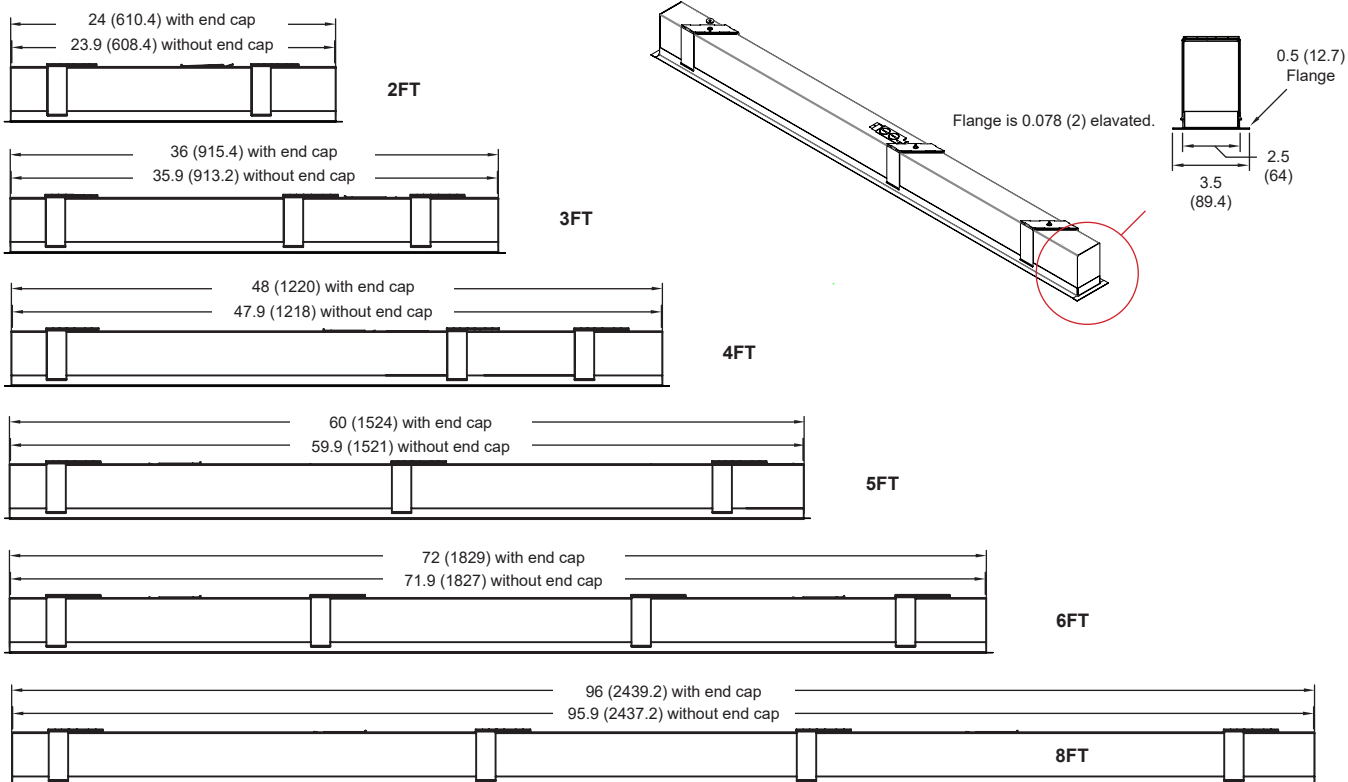
* All -CONs are designed to fit the standard ceiling grid.

All dimensions are in inches (millimeters).

CUBE2-G1

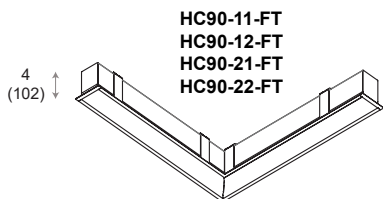


CUBE2-FT

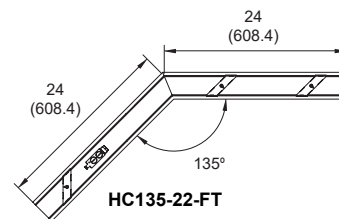
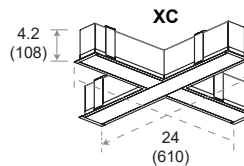
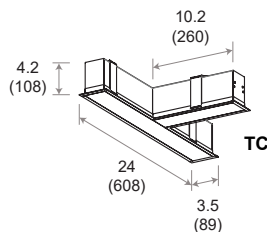


CUBE2

- 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>	IllumaTech - IP710-DLX
		<Lightolier 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-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-1EC0-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	<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 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).

