CUBE2-X

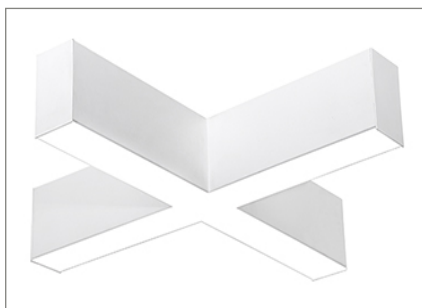| Project Name:	
Type:	

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).
- 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

	Multiplier		
CCT	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

Sensor Plate

Lutron Vive Integral
fixture control installation

EasySense
fixture-mount installation
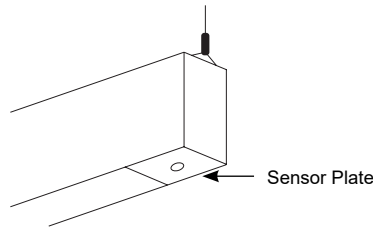
ORDERING INFORMATION

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	18W LED	/U18L	18W LED	(Blank)	No optic	(Blank)	Leave blank if you wish to have different CCT for up and down, and fill out next section.
			D27L	27W LED	/U27L	27W LED	UN15	Uplight Narrow 15º		
			D36L	36W LED			UN30	Uplight Narrow 30º		
			D54L	54W LED			UM	Uplight Medium 60º		
	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.				UASY	Uplight Asymmetric 20º [20]	-30K	3000K
							UBAT	Uplight Batwing 120º	-35K	3500K
							UPC	Non-optic clear cover	-40K	4000K
									-50K	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	(Blank)	Pendant Standard 1/2" Flange (drywall) [2]	UNV	120-277V	(Blank)	None EM	(Blank)	Matte White RAL #9003 (Std.)
		C9	90+ CRI [9]	FT		120	120V	1SE	1 Section	*BK	Black RAL #9011
DXXUYY	Indicate 27,30,35,40 or 50 for XX and YY (D represents Downlight, U represents Uplight).					277	277V			*SV	Silver (RAL #9022)
						347	347V [15]			**CC	Custom Color [8]
										*AMB	Anti-Microbial Coating (Matte Skye White)
											* 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)	White (Std.)	(Blank)	White (Std.)	X1	15/16" grid T-bar ceiling	AC48	Adjustable Aircraft Cable Canopy 48"L
*BKC	Black	*BC	Black Canopy	X2	Hard ceiling	AC96	Adjustable Aircraft Cable Canopy 96"L
		*SC	Silver Canopy	X3	Sloped Hard ceiling	ST24	Stem Canopy 24"L
		**CSS	Custom Canopy Color (White is Std.)	X4	9/16" T-bar ceiling	ST48	Stem Canopy 48"L
	* Non-standard finish with extra charge. ** Additional charge & set up fee.						* Contact factory for custom length.

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	**O7W**	Optional 7 Years Limited Warranty [5]
		O10W	Optional 10 Years Limited Warranty [5]
ELV	ELV compatible (reverse-phase or trailing-edge), (120V only)	**AMS**	Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming
TRIOT	Tridonic IoT ready, 1-100% dim via Smart Module Interface (SMI), automated dimming/lighting controls via Enlighted Sensor Interface	**DPMS**	Daylight Dimming Photo Sensor (0-10 VDC Control), (LSR-301-S required if FD-301 is installed) [17]
DTO	0-10V DIM-TO-OFF	**SO**	Dimming Wires connected to Sensor Only (available option on FS-205 non-Bluetooth AMS sensor only) [6]
DMX	DMX512 control system (Only available with RGB+W option)		
DLM	Wattstopper's DLM interface (Only available with RGB+W option)	**LSR-301-S**	Setup Remote Control for DPMS (Required for DPMS)
LTEA2W	Hi-lume 1% 2-wire LED driver (120V forward phase only)	**LSR-301-P**	Occupant Remote Control for DPMS
🔵 **BLT**	Bluetooth Mesh System (contact factory for more information)	**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	<Lutron Vive System Enabled> ⸜ **Click Here!**
SNS200 **RS-IR**	<EasySense> EasySense Fixture-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) [11, 12] IR dongle v2.0 for EasySense control
SU-5E **RS-WS**	<Enlighted> 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] Enlighted Room controller providing basic control functions of a standard wall switch with preset dimming capability
IFS105SE **PPA102S**	<Bluetooth> Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming Bluetooth Powerpack (Consult factory for installation location)

NOTES:
1. Pendant only.
2. Requires # STB as standard.
3. Standard with "FT" mounting.
4. Check with factory for more details.
5. This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation.
6. Dimming wires provided and connected to sensor only, not for dimmer switch. (available with AMS and DPMS option)
7. 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.
8. Refer to color charts (RAL and/or Cardinal) in the separate attachment.
9. Lumen per watt is around 15% less than standard CRI (80+).
10. Cord is available in white or black. (Black is not available for the EM option)
11. See NFC and IR manual in the separate attachment. If your phone is not compatible, please order "RS-IR" and follow the manual.
12. Refer to Advanced Grouping Datasheet for its default setting and compatible wireless switches.
13. "RS-WS" option can be added if wish to have a wall switch, please see Enlighted Room Controller in the separate attachment.
14. Can have up to 2 power feeds depending on the configuration.
15. 347V cannot work with Emergency Battery Backup.
16. Must specify voltage, not available with 347V.
17. Automatic on/off is not available. For automatic on/off, additional occupancy sensor is required or a manual on/off switch can be done.
18. Contact factory for other emergency ballast options.
19. For 3ft configuration, EM can only be remote mounted. Remote box is provided by others.
20. Standard optic illuminates the wall. Optics can be field modified (reversed) to illuminate room.
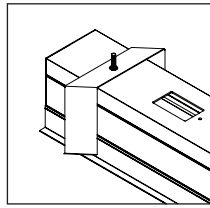
CUBE2-X

- INACCESSIBLE CEILING MOUNTING
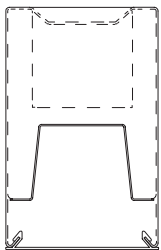
- SPECIALTY MOUNTS

Flange Detail
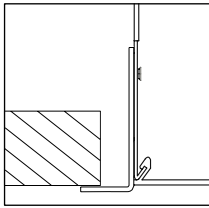
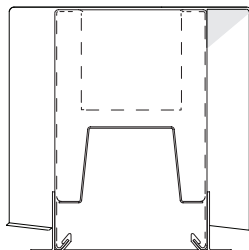Exposed Flange Detail:
Specify FT in part #

Rotating Crossbar

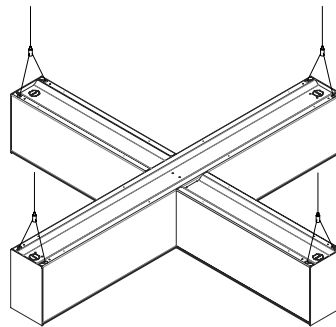Unavailable Structure Support:
Specify STB in part #

Cable

Stem
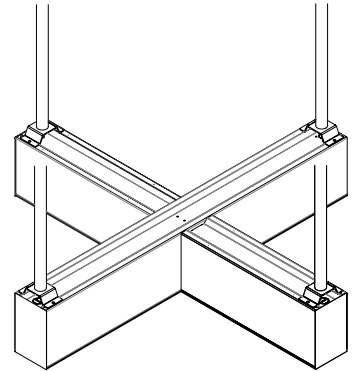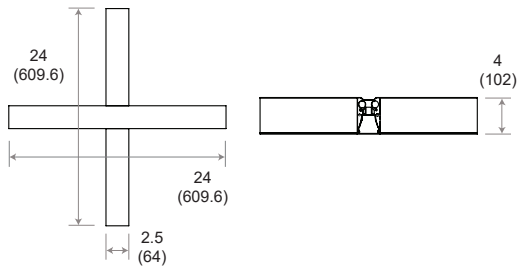

Surface

Drywall

Pendant

24
(609.6)

24
(609.6)

2.5
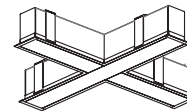(64)

4
(102)

Drywall

24
(609.6)

24
(609.6)

4
(102)

1/2"
Flange
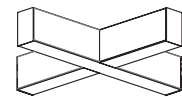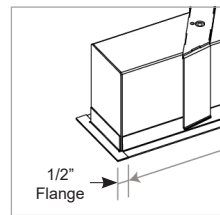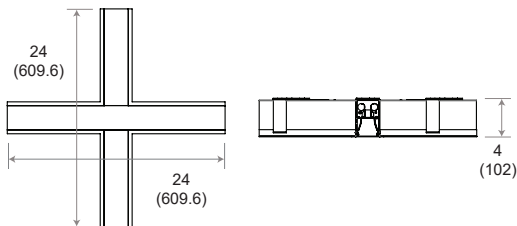

All dimensions are in inches (millimeters).

* Dimensions shown are without flange.

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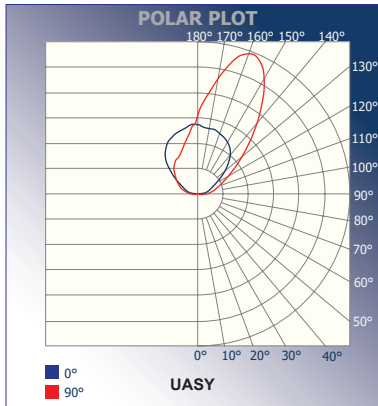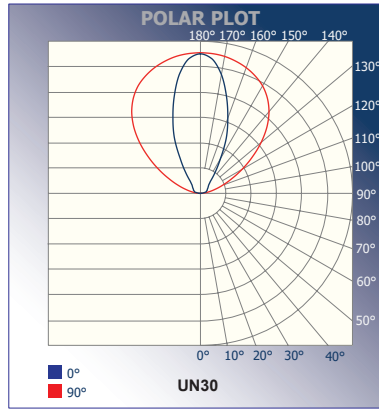
4

CUBE2-X

COMPATIBLE DIMMER SWITCH (TABLE 1)

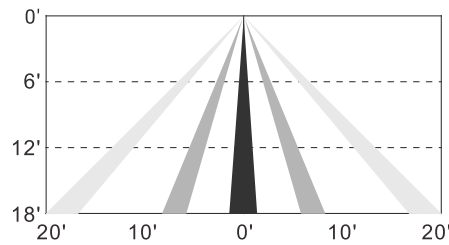| Model #	Brand		Compatible Dimmer Switch
(Blank)	-	<Leviton>	IP710-LFZ
		<Lutron>	Nova: NFTV-dimmer plus PP-DV relay pack(s) Nova T: NTSTV-DV-dimmer Diva: DVTV-dimmer, DVSCTV-dimmer, plus PP-DV, relay pack(s), DVSTV-dimmer, DVSCSTV-dimmer GRAFIK Eye QS: QSGRJ-XP, plus GRX-TVI 0-10V interface GRAFIK 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>	IllumaTech - 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-DIMFLVV8-*, GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, DIN-AO8, DIN-4DIMFLV4, CLS-EXP-DIMFLV, CLCI-1DIMFLV2EX
ED560	eldoLED DUALdrive	<Lunatone>	SS-LUNAT PS2 30mA 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-1EC0-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	<Illumra>	Single Rocker Self-Powered Light Switch (on/off, dim-up/down) Illumra# ZBT-S1AWH Digi-Key# 1082-1033-ND Dual Rocker Self-Powered Light Switch (on/off, dim-up/down, scene1,2) 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 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:
1. All devices connected to one FCJ/FCJS-ECO will be controlled together. Devices will dim to the same level as the result of a control command.
   For more detail on adjusting low-end light level refer to Application Note#556 at www.lutron.com.
2. For the Line/Hot (L/H) terminal on the driver, it is preferred not to use the switched hot (red) wire from the control but rather the hot wire directly from the power source.
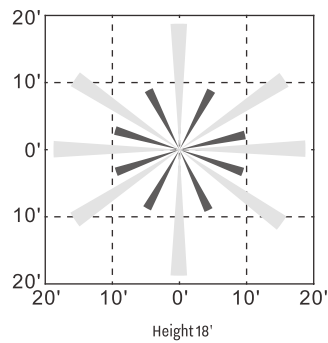3. Recommended for EasySense System.

CUBE2-X

POLAR PLOT — UN15

POLAR PLOT — UN30

POLAR PLOT — UM

POLAR PLOT — UASY

POLAR PLOT — UBAT

SIDE VIEW

TOP VIEW

Height 18'
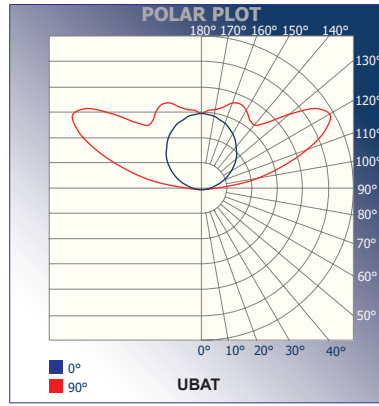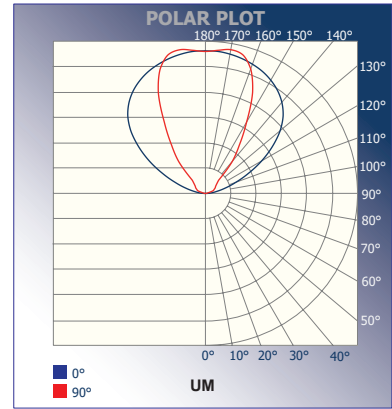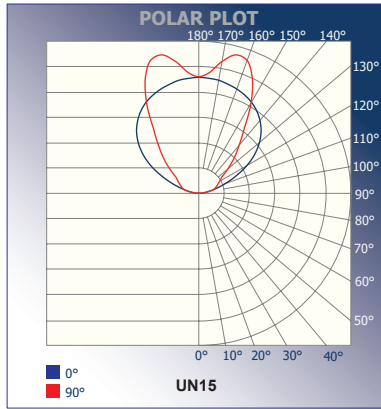
AMS, IFS105SE coverage pattern

ARCHITECTURAL DESIGN

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).

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