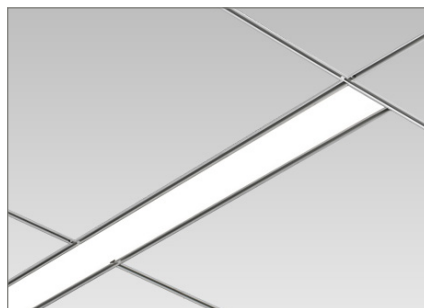


CUBE2-PR

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. The CUBE2 perimeter provides a glowing transition between ceiling and wall, perfect 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.
- CEC Compliant EM (please contact for more information)
- Assembled in USA (optional).
- BAA compliant (optional).
- Trade Agreements Act compliant (optional).
- 5 years limited warranty. ⁵
- 7 or 10 years limited warranty. (optional) ⁵
- 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%

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 HC90 DRYWALL	17.37	7.88

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

CUBE2-PR

ORDERING INFORMATION

EXAMPLE: CUBE2-PR-IND-4-D27L-40K-FT-UNV

MODEL		ROW ¹		SECTION ²		LED Downlight (per/4ft section)		DISTRIBUTION		COLOR TEMP.		CRI							
CUBE2-PR-IND (Individual Mount)		xx'	Specify nominal overall row length in 1' increments (Continuous runs)	2	2' Length	D18L	18W LED (734 lm/ft)	(Blank)	Flushed (Std.) 	-27K	2700K ⁹	(Blank)	80+ CRI						
				3	3' Length	D27L	27W LED (924 lm/ft)							ASY	Asymmetric 	-30K	3000K	C9	90+ CRI ⁸
				4	4' Length	D36L	36W LED (991 lm/ft)												
				5	5' Length	D54L	54W LED (1467 lm/ft)												
				6	6' Length														
		8	8' Length ³																
CUBE2-PR-CON (Continuous Row Mount)						* Maximum wattage per 4ft section - recessed mount : 54W (down light) * Contact factory for custom wattage or lumen requirement.				-35K	3500K								
										-40K	4000K								
										-50K	5000K								
CUBE2-PR-CM (Custom)		Must provide a sketch on the last page																	

SHIELDING		MOUNTING TYPE		MOUNTING		VOLTAGE		EM SECTION ⁴		FINISH		
(Blank)	Flushed Lens (Std.)	(Blank) NF	Fixed (Std.) Non-flanged side for flushed wall installation.	G1	9/16", 15/16", 1" T-bar Ceiling Grid ¹⁴	UNV	120-277V	(Blank)	None EM	(Blank)	Matte White RAL #9003 (Std.)	
				SS	9/16" Screw Slot, 9/16" T-bar with Tegular tile ceiling ¹⁴	120	120V	1SE	1 Section	*BK	Black RAL #9011	
				FT	Standard 1/2" Flange ^{15, 21}	277	277V	2SE	2 Section	*SV	Silver (RAL #9022)	
				SF	Spackle Flange (Trimless) ^{15, 21, 23}	347	347V ¹⁶	xSE	x Section	**CC	Custom Color ¹⁴	
											*AMB	Anti-Microbial Coating (Matte Skye White)
* Non-standard finish with extra charge. ** CC: additional charge & set up fee. Provide RAL# code.												

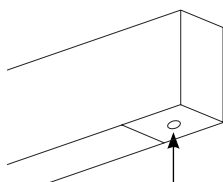
LED DRIVER				
(Blank) ES566 SD40 SDXX PHSR PHDL TDM TD30/70 TDXX/YY	0-10V dim to 1% (Std.) (dim both uplight and downlight simultaneously)	LDE1	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim	
	eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim	ELV	ELV compatible (reverse-phase or trailing-edge), (120V only)	
	40% / 100% Bi-Level Step dim	TRIOT	Tridonic IoT ready, 1-100% dim via Smart Module Interface (SMI), automated dimming/lighting controls via Enlighted Sensor Interface ¹⁸	
	XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%)	DTO	0-10V DIM-TO-OFF	
	Philips Xitanium Sensor-Ready, Dali 5%~100% dim.	LTEA2W	Hi-lume 1% 2-wire LED driver (120V forward phase only) ¹⁸	
		 BLT	Bluetooth Mesh System (contact factory for more information)	
	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%)			

OPTIONS		LIGHTING CONTROL SYSTEM ²²	
HC90-11 HC90-12 HC90-21 HC90-22 HC135-22 EMG8 EMG15 EMG20 EMG25 ELCU-200 F1 F2 ARRA BAA TAA O7W O10W AMS E1F E2F CCEA	90° Horizontal Lit Connector, 1'x1' ²¹ 90° Horizontal Lit Connector, 1'x2' ²¹ 90° Horizontal Lit Connector, 2'x1' ²¹ 90° Horizontal Lit Connector, 2'x2' ²¹ 135° Horizontal Lit Connector, 2'x2' ²¹ 8W EM Battery Backup (CEC Compliant EM) ^{6, 17, 20} 15W EM Battery Backup (CEC Compliant EM) ^{6, 17, 20} 20W EM Battery Backup (CEC Compliant EM) ^{6, 17, 20} 25W EM Battery Backup (CEC Compliant EM) ^{6, 17, 20} Fail-to-on Emergency lighting, UL924 ⁷ Single fuse, must select 120V/277V/347V Double fuse, must select 208V/240V Assembled in USA for Buy American Act BAA(Buy American Act) and BABA(Build America Buy America) compliant Trade Agreements Act compliant Optional 7 Years Limited Warranty ⁵ Optional 10 Years Limited Warranty ⁵ Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming ²² End feed on one end (Pre-drilled hole for 1/2" fitting) End feed on both ends (Pre-drilled holes for 1/2" fitting) Chicago Plenum	LUTRON VIVE	<Lutron Vive System Enabled>  Click Here!
			<EasySense> EasySense Fixture-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) ^{10, 13} IR dongle v2.0 for EasySense control
			SNS200
			RS-IR
			<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) ¹¹
			SU-5E
			RS-WS
			Enlighted Room controller providing basic control functions of a standard wall switch with preset dimming capability
			<Bluetooth> Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming Bluetooth Powerpack (Consult factory for installation location)
			IFS105SE PPA102S

CUBE2-PR

NOTES:

1. Specify only when Continuous Row Mount.
2. No need to select, if same as row length and section length.
3. Comes with 1pc 8ft lens.
4. EM is installed in last 4' of luminaire sections. Separate section required 2SE or specified. Must specify voltage, not available with 347V.
5. This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation.
6. Contact factory for other emergency ballast options.
7. Shipped separately.
8. Lumen per watt is around 15% less than standard CRI (80+).
9. Available with C9 (CRI 90+) only.
10. See NFC and IR manual in the separate attachment. If your phone is not compatible, please order "RS-IR" and follow the manual.
11. "RS-WS" option can be added if wish to have a wall switch, please see Enlighted Room Controller in the separate attachment.
12. Refer to color charts (RAL and/or Cardinal) in the separate attachment.
13. Refer to Advanced Grouping Datasheet for its default setting and compatible wireless switches.
14. Compatible with T-bar ceiling type.
15. Compatible with hard ceiling type.
16. 347V cannot work with Emergency Battery Backup.
17. Must specify voltage.
18. Not available with any 1ft individual configuration due to space limitations.
19. Refer to a separate CUBE2-HC90 spec sheet to find more information.
20. EM can only be remote mounted up to 3ft configuration. Remote box is provided by others.
21. (2) 3/8" rod installation is standard (refer to the installation instructions for more details).
22. Remote mounted sensor is recommended for better detection.
23. Only available with -NF mounting type.



Sensor Plate

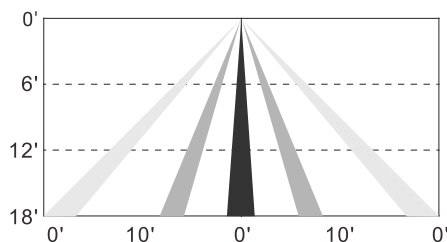


Lutron Vive Integral
fixture control installation

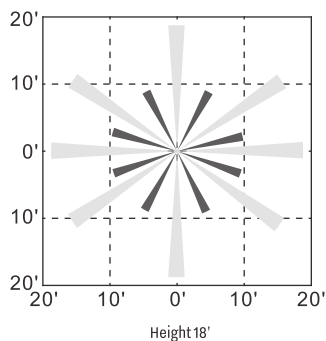


EasySense
fixture-mount installation

SIDE VIEW



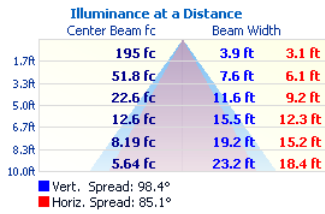
TOP VIEW



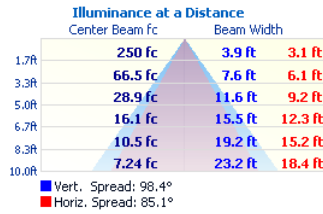
AMS, IFS105SE coverage pattern

CUBE2-PR

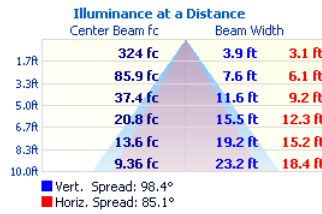
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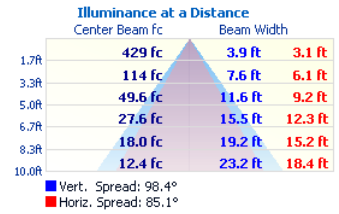
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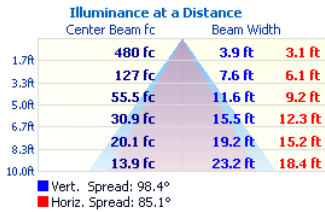
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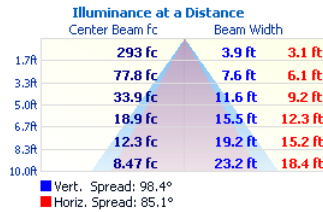
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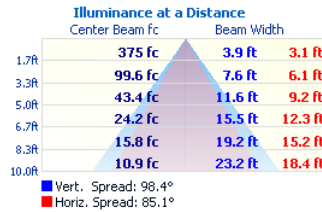
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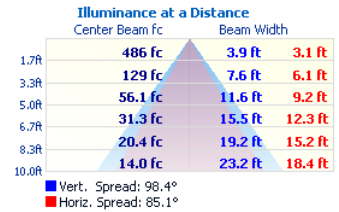
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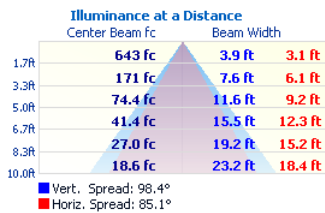
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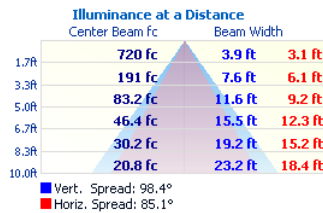
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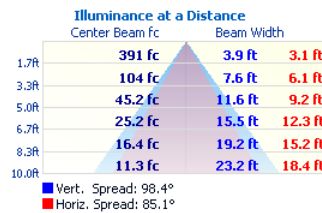
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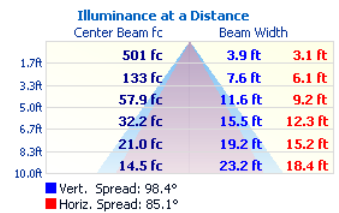
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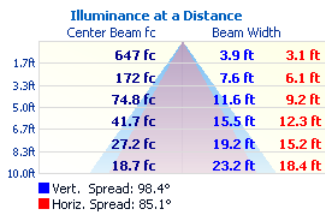
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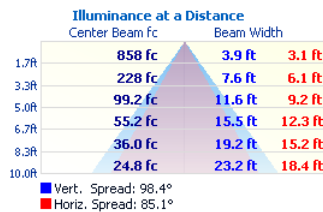
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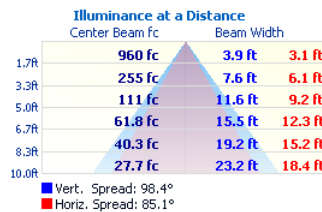
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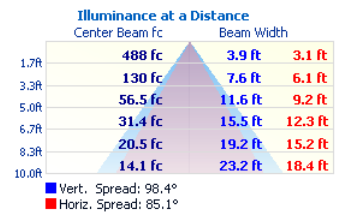
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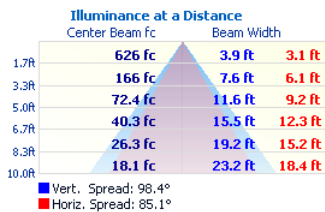
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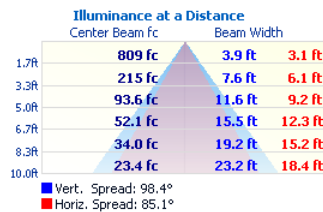
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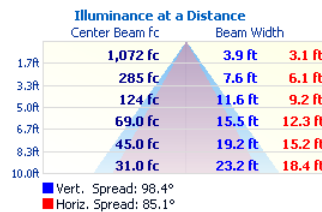
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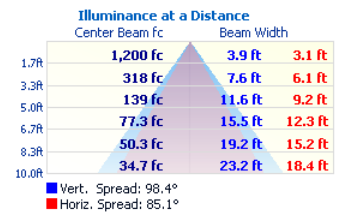
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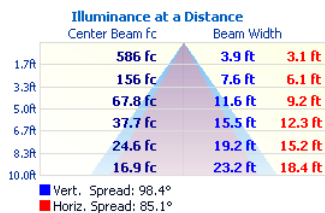
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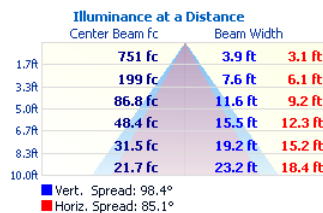
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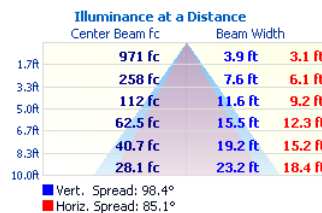
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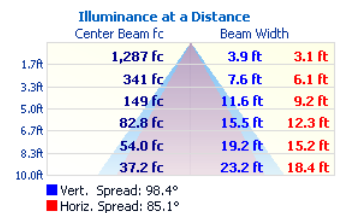
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CUBE2-6-36L

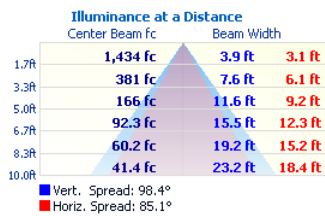


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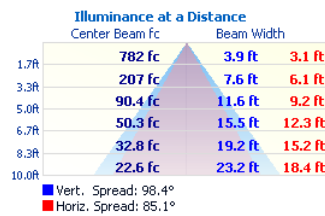


CUBE2-PR

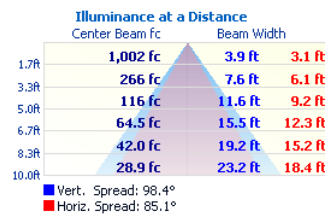
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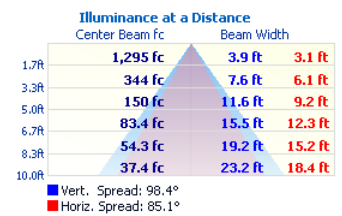
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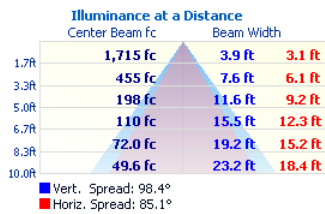
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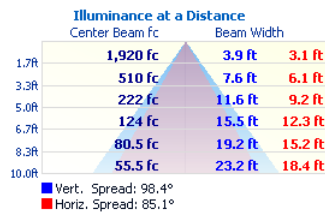
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CUBE2-8-48L

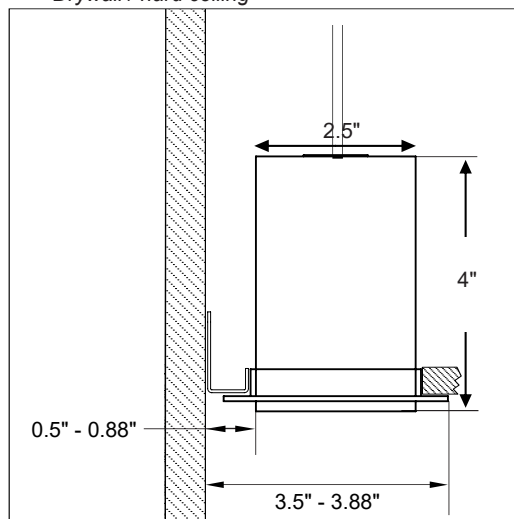


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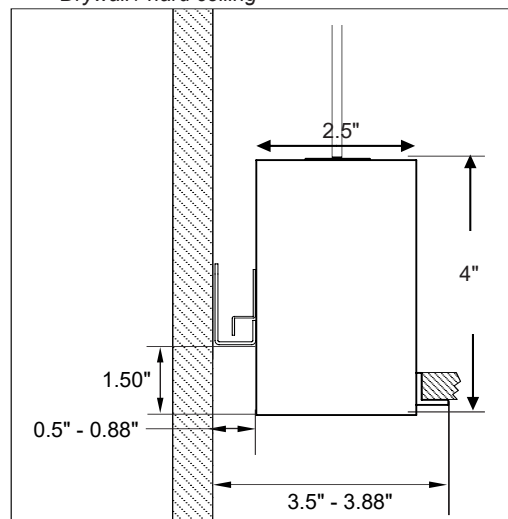


- DIMENSIONS & MOUNTING DETAILS

Flushed Lens w/ Fixed* mounting type
(1/2" flange on both sides)
Drywall / hard ceiling



Flushed Lens w/ NF* mounting type
(1/2" flange on one side)
Drywall / hard ceiling



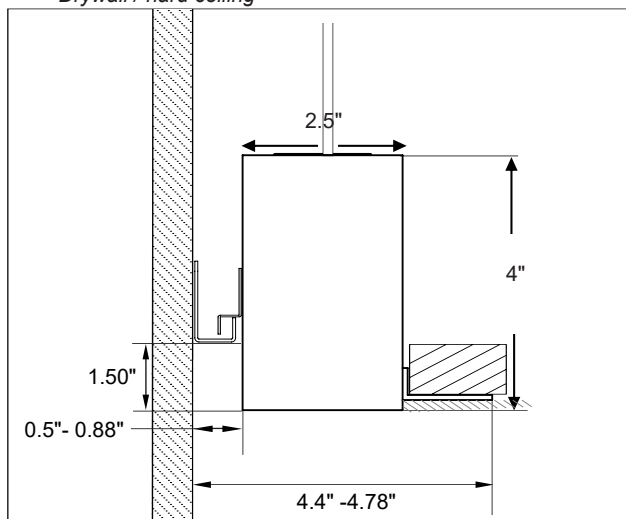
⚠ Luminaire must be installed prior to drywall

CUBE2-PR

Flushed Lens w/ NF* mounting type

(1.4" trimless flange on one side)

Drywall / hard ceiling

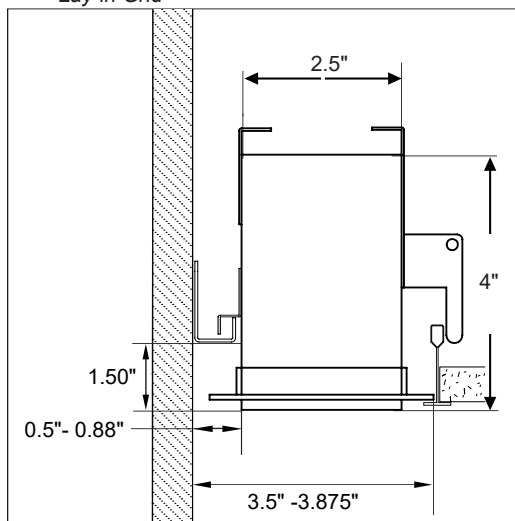


⚠ Luminaire must be installed prior to drywall

Flushed Lens w/ Fixed* mounting type

(1/2" flange on both sides)

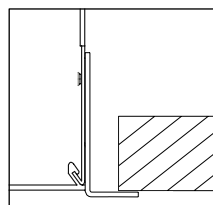
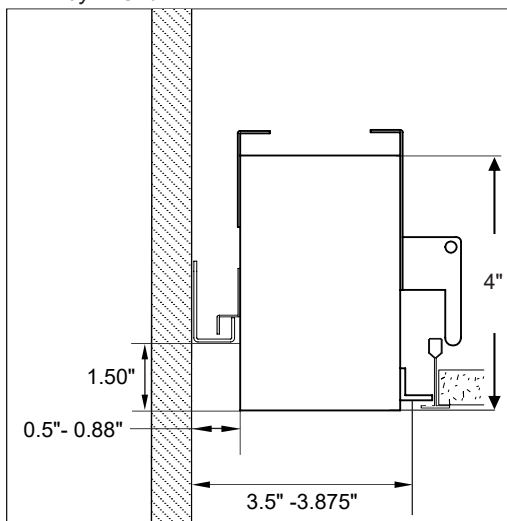
Lay-in Grid



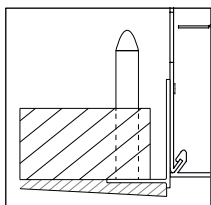
Flushed Lens w/ NF* mounting type

(1/2" flange on one side)

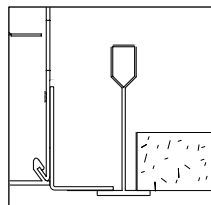
Lay-in Grid



Drywall
For -FT



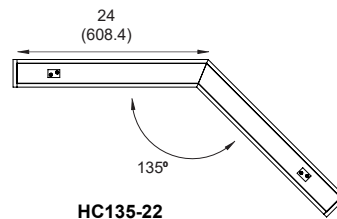
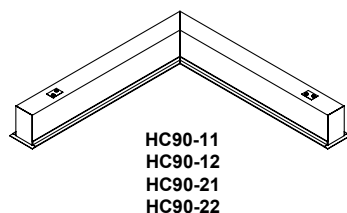
Drywall
For -SF (trimless)



Grid
15/16" or 9/16" Flat Tee
main runner required for
finish edge.

CUBE2-PR

- LIT CORNER



* 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
		<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-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	<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 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.

ARCHITECTURAL LINEAR PERIMETER

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 (based on wall-to-wall dimensions) and power locations required.
- HC90 connectors have 90 degree corners (overall, outside dimension).

UTOPIA
LIGHTING

