CUBE1-PR

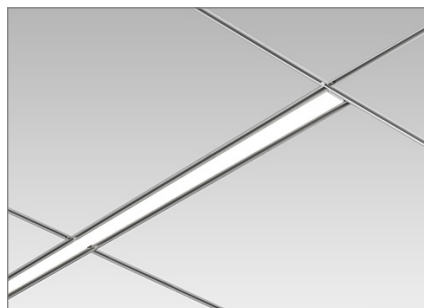| Project Name:	
Type:	

APPLICATION

The CUBE1 is a featured Architectural Linear fixture. Housing is extruded aluminum with a highly reflective die-formed white painted steel reflector. The snap-in acrylic lens has a matte finish and a diffuser which is removable for LED module replacement. The CUBE1 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]
- Bluetooth Mesh System available, please contact factory for more information.

CONFIGURATIONS

Series	Size	Model #	AC Input	Lumen Output (4000K)	Lumen Efficiency (4000K)
CUBE1	2'	D9L	4.95W	544.5 lm	110 lm/W
		D18L	9.9W	1089 lm	
		D27L	14.85W	1633.5 lm	
		D36L	19.8W	2178 lm	
	3'	D9L	7.4W	814 lm	
		D18L	14.85W	1633.5 lm	
		D27L	22.2W	2442 lm	
		D36L	26.4W	2904 lm	
	4'	D9L	9.9W	1089 lm	
		D18L	19.8W	2178 lm	
		D27L	29.7W	3267 lm	
		D36L	39.6W	4356 lm	
	6'	D9L	14.85W	1633.5 lm	
		D18L	29.7W	3267 lm	
		D27L	44.55W	4900.5 lm	
		D36L	59.4W	6534 lm	
	8'	D9L	19.8W	2178 lm	
		D18L	39.6W	4356 lm	
		D27L	59.4W	6534 lm	
		D36L	79.2W	8712 lm	

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

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CUBE1-PR

ORDERING INFORMATION

EXAMPLE: CUBE1-PR-IND-4-D18L-40K-FT-UNV

MODEL	ROW [1]	SECTION [2]	LED Downlight (per/4ft section)		DISTRIBUTION	COLOR TEMP.	CRI
CUBE1-PR-IND (Individual Mount) **CUBE1-PR-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.	**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 [3]	**D9L** 9W LED (272 lm/ft) **D18L** 18W LED (544 lm/ft) **D27L** 27W LED (816 lm/ft) **D36L** 36W LED (1089 lm/ft)	* Maximum wattage per 4ft section - recessed mount : 36W (down light) * Contact factory for custom wattage or lumen requirement.	**(Blank)** Flushed (Std.) **ASY** Asymmetric	**-27K** 2700K [9] **-30K** 3000K **-35K** 3500K **-40K** 4000K **-50K** 5000K	**(Blank)** 80+ CRI **C9** 90+ CRI [8]
CUBE1-PR-CM (Custom)	Must provide a sketch on the last page						

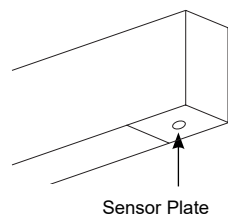| SHIELDING	FLANGE TYPE	MOUNTING	VOLTAGE	EM SECTION [4]	FINISH
(Blank) Flushed Lens (Std.) **2RG** 2" regressed **4RG** 4" regressed	**(Blank)** Fixed (Std.) [17] **NF** Non-flanged side for flushed wall installation.	**G1** 9/16", 15/16", 1" T-bar Ceiling Grid [11] **SS** 9/16" Screw Slot, 9/16" T-bar with Tegular tile ceiling [11] **FT** Standard 1/2" Flange [12, 17] **SF** Spackle Flange (Trimless) [12, 17]	**UNV** 120-277V **120** 120V **277** 277V **347** 347V	**(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 [10] ***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)	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	**TRIOT**	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%)		
PHSR	Philips Xitanium Sensor-Ready, Dali 5%~100% dim.	**DTO**	0-10V DIM-TO-OFF
PHDL	Philips Xitanium DALI driver, Dim to 5%	**LTEA2W**	Hi-lume 1% 2-wire LED driver (120V forward phase only)
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%)	**⟨8⟩ BLT**	Bluetooth Mesh System (contact factory for more information)

OPTIONS

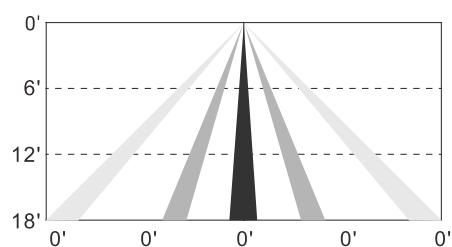|				
HC90-11	90° Horizontal Lit Connector, 1'x1'	**ARRA**	Assembled in USA for Buy American Act
HC90-12	90° Horizontal Lit Connector, 1'x2'	**BAA**	BAA(Buy American Act) and BABA(Build America Buy America)
HC90-21	90° Horizontal Lit Connector, 2'x1'	**TAA**	compliant Trade Agreements Act compliant
HC90-22	90° Horizontal Lit Connector, 2'x2'	**O7W**	Optional 7 Years Limited Warranty [5]
HC135-22	135° Horizontal Lit Connector, 2'x2'	**O10W**	Optional 10 Years Limited Warranty [5]
EMG8	8W EM Battery Backup (CEC Compliant EM) [6, 13, 14]	**AMS**	Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming
EMG15	15W EM Battery Backup (CEC Compliant EM) [6, 13, 14]	**E1F**	End feed on one end (Pre-drilled hole for 1/2" fitting)
EMG20	20W EM Battery Backup (CEC Compliant EM) [6, 13, 14]	**E2F**	End feed on both ends (Pre-drilled holes for 1/2" fitting)
EMG25	25W EM Battery Backup (CEC Compliant EM) [6, 13, 14]	**J-rail-x**	J-rail for wall side (specify x = length of the fixture), field installation [16]
ELCU-200	Fail-to-on Emergency lighting, UL924 [7]	**Z-rail-x**	Z-rail for fixture side (specify x = length of the fixture), pre-installed [16]
F1	Single fuse for 120V/277V/247V		
F2	Double fuse for 208V/240V		

NOTES:
1. Specify only when Continuous Row Mount.
2. No need to select, if sames 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. Refer to color charts (RAL and/or Cardinal) in the separate attachment.
11. Compatible with T-bar ceiling type.
12. Compatible with hard ceiling type.
13. Must specify voltage 120/277V, not available with 347V.
14. EM can only be remote mounted up to 3ft configuration. Remote box is provided by others.
15. (2) 3/8" rod installation is standard (provided by others) (refer to the installation instructions for more details).
16. Not available with -SF mounting.
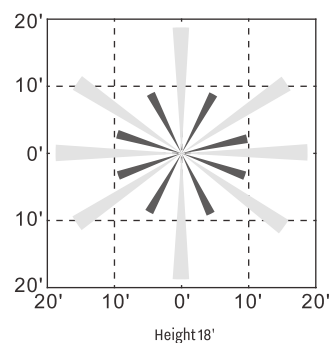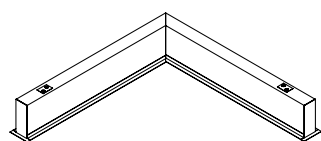17. Comes with flanges on both sides.

CUBE1-PR

Sensor Plate
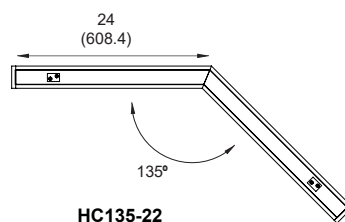
SIDE VIEW

TOP VIEW

Height 18'

AMS, IFS105SE coverage pattern

- LIT CORNER

HC90-11
HC90-12
HC90-21
HC90-22

24
(608.4)

135º

HC135-22

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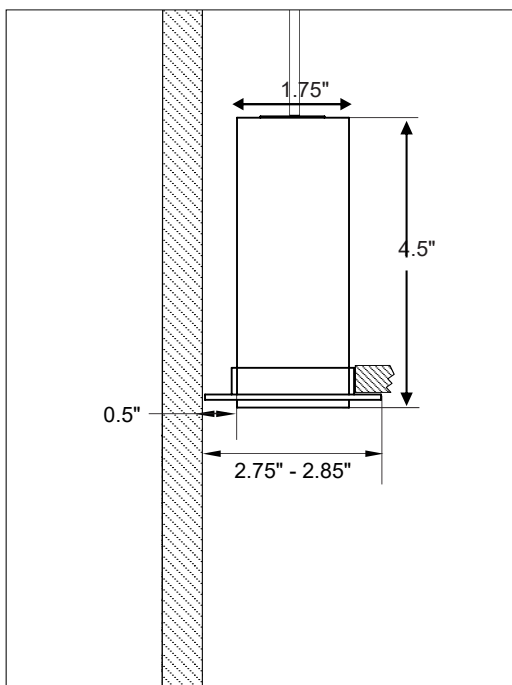
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CUBE1-PR

-FT mounting dimensions & details

⚠ Luminaire must be installed prior to drywall.
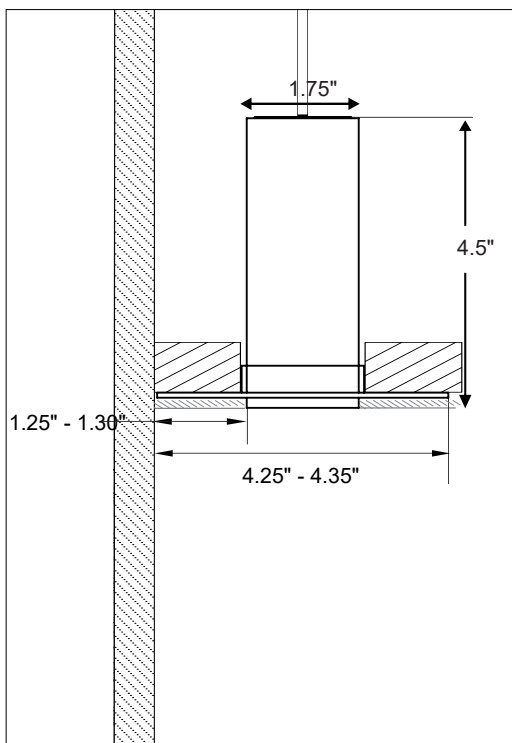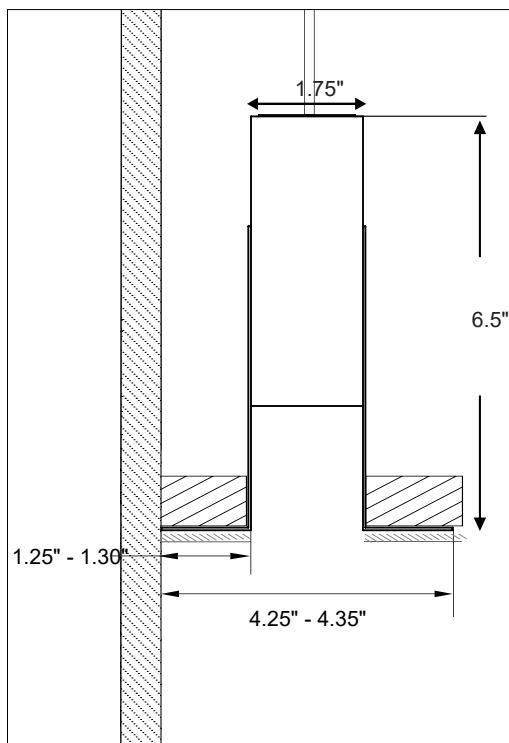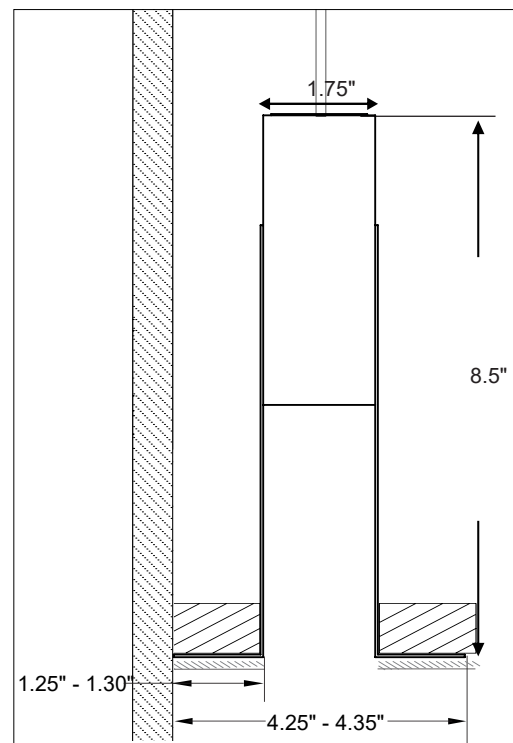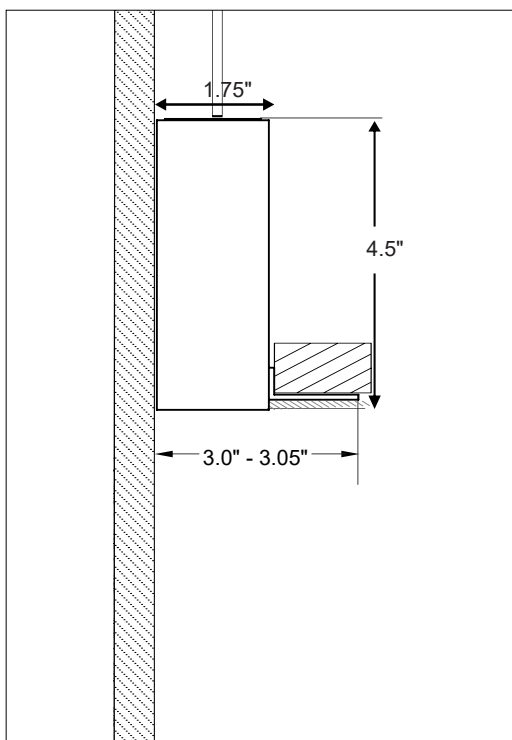* 3/8" Rod by others.

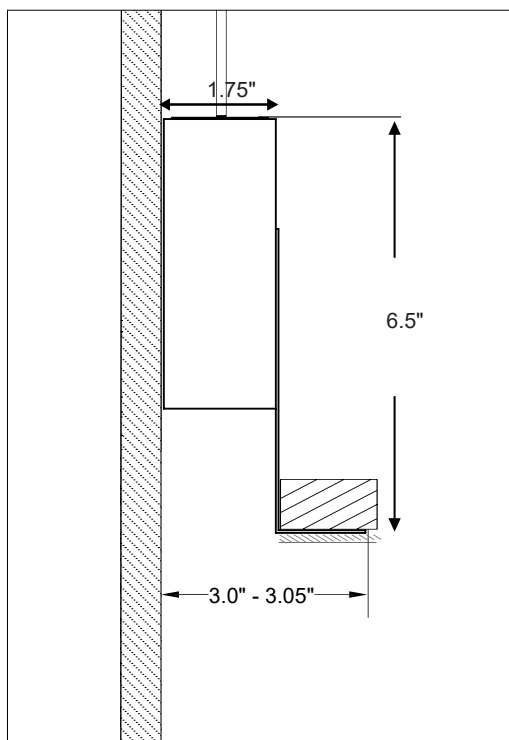**Flushed Lens w/ Fixed* mounting type (std.)**
(1/2" flange on both sides)
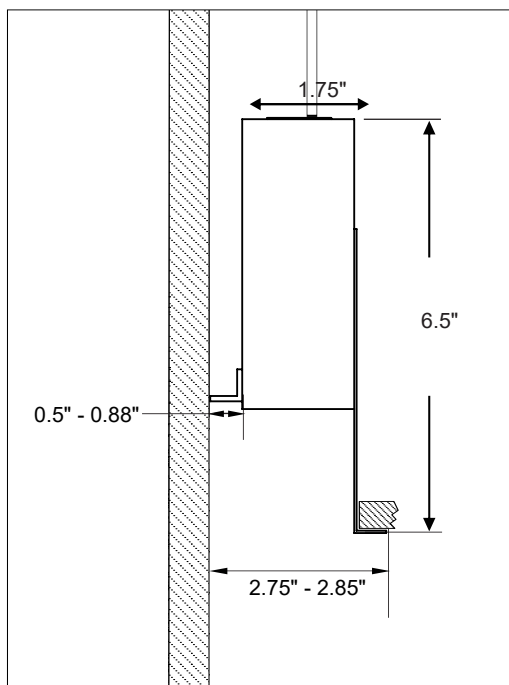
2" Regressed Lens w/ Fixed* mounting type
(1/2" flange on both sides)
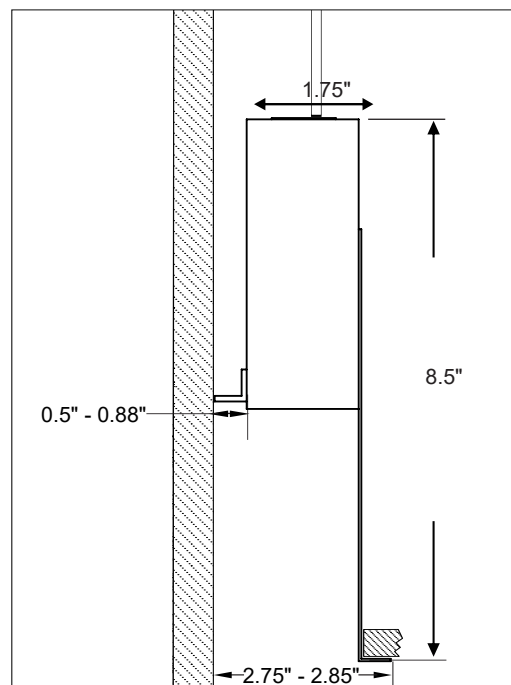
4" Regressed Lens w/ Fixed* mounting type
(1/2" flange on both sides)
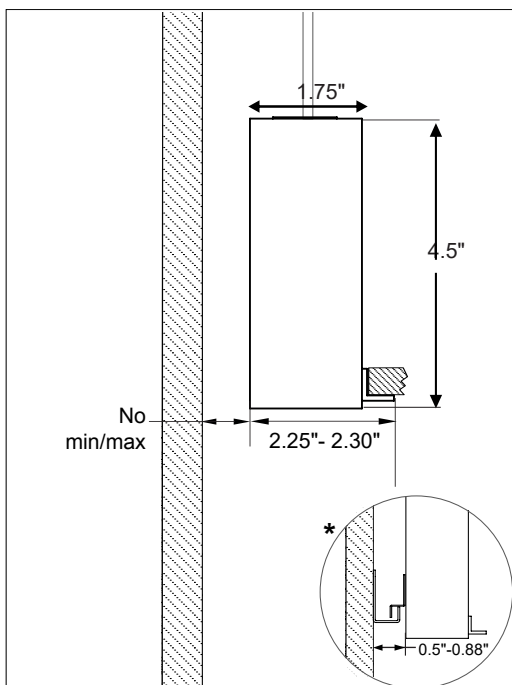
Flushed Lens w/ NF* mounting type (std.)
(1/2" flange on one side)
* J-rail & Z-rail can be ordered separately
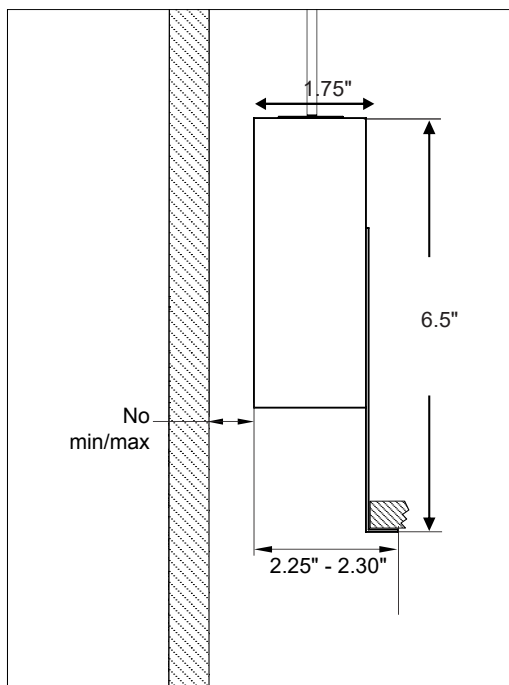
2" Regressed Lens w/ NF* mounting type
(1/2" flange on one side)
* J-rail & Z-rail can be ordered separately
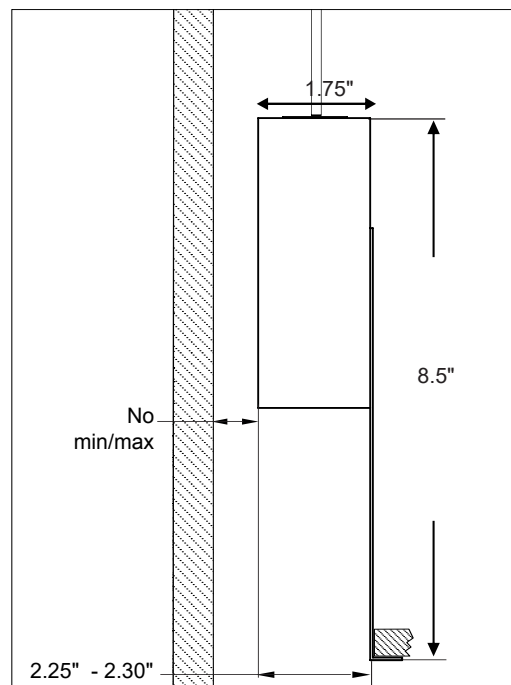
4" Regressed Lens w/ NF* mounting type
(1/2" flange on one side)
* J-rail & Z-rail can be ordered separately

CUBE1-PR

-SF mounting dimensions & details

⚠ Luminaire must be installed prior to drywall.
* 3/8" Rod by others.

Flushed Lens w/ Fixed* mounting type (std.)
(1-1/4" flange on both sides)

2" Regressed Lens w/ Fixed* mounting type
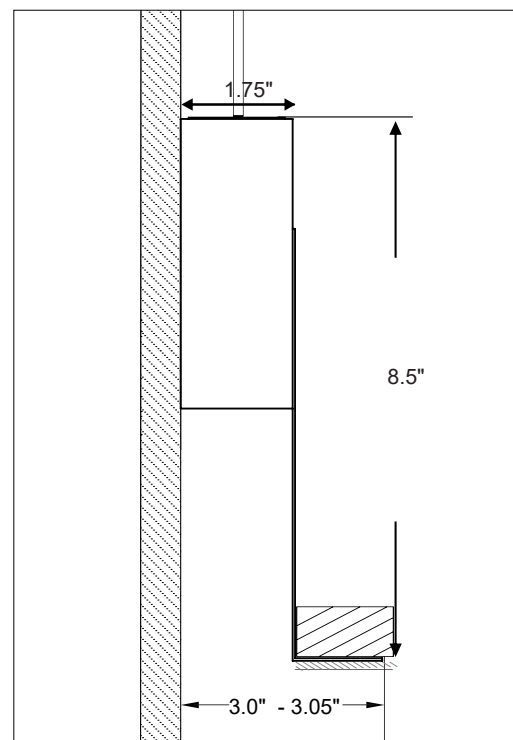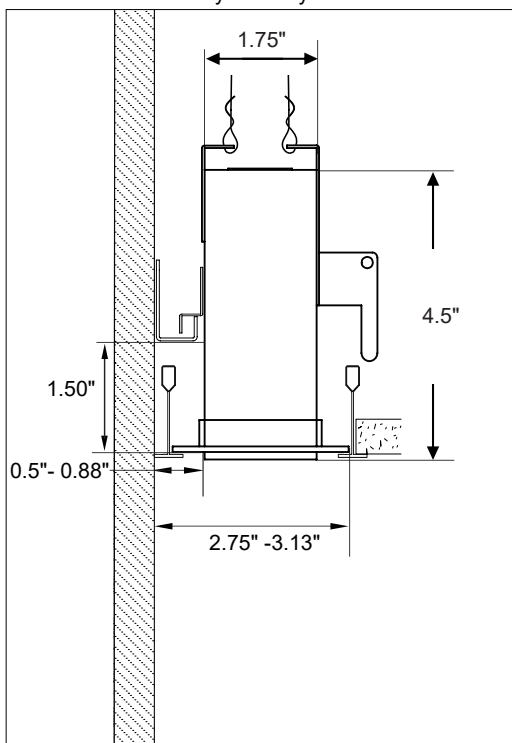(1/-1/4" flange on both sides)

4" Regressed Lens w/ Fixed* mounting type
(1-1/4" flange on both sides)

Flushed Lens w/ Fixed* mounting type (std.)
(1-1/4" flange on one side)

2" Regressed Lens w/ Fixed* mounting type
(1/-1/4" flange on one side)

4" Regressed Lens w/ Fixed* mounting type
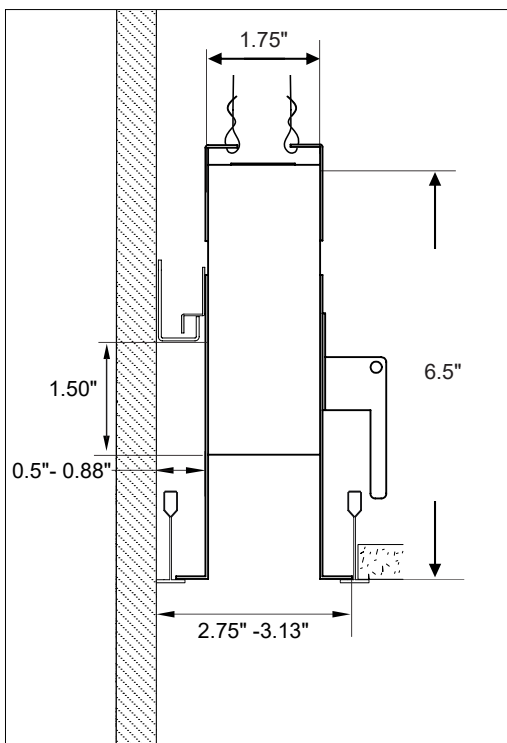(1-1/4" flange on one side)

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CUBE1-PR

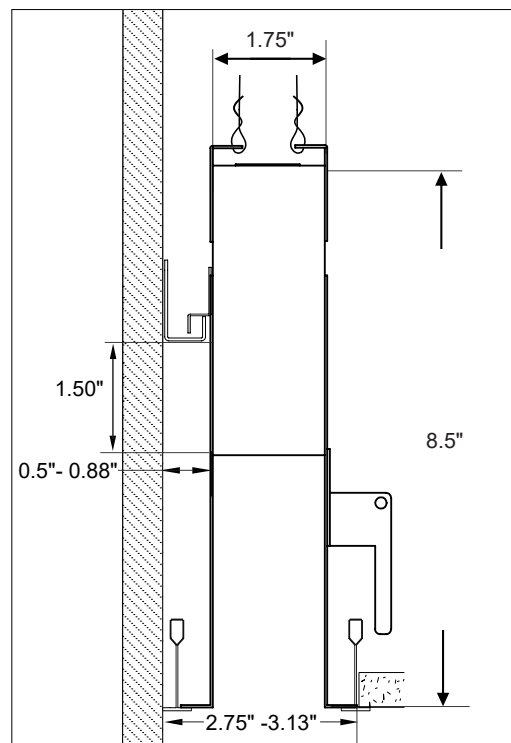## -G1 mounting dimensions & details

⚠ * J-rail provided (ship separate), Z-rail pre-installed.
* Safety cable by others.

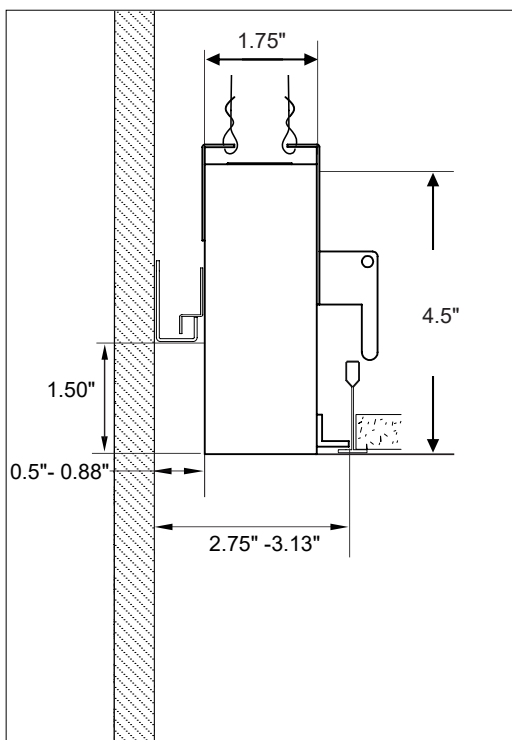**Flushed Lens w/ Fixed* mounting type (std.)**
(1/2" flange on both sides)

2" Regressed Lens w/ Fixed* mounting type
(1/2" flange on both sides)

4" Regressed Lens w/ Fixed* mounting type
(1/2" flange on both sides)

Flushed Lens w/ NF* mounting type (std.)
(1/2" flange on one side)

2" Regressed Lens w/ NF* mounting type
(1/2" flange on one side)

4" Regressed Lens w/ NF* mounting type
(1/2" flange on one side)

CUBE1-PR

-SS mounting dimensions & details

⚠ * J-rail provided (ship separate), Z-rail pre-installed.
* Safety cable by others.

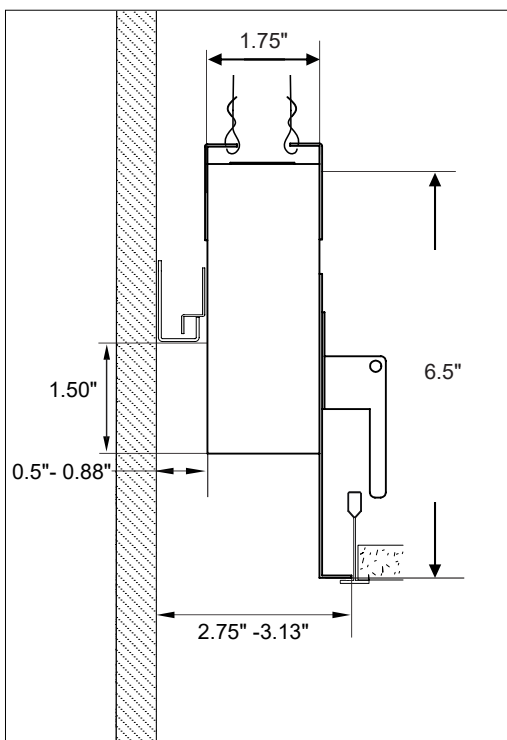**Flushed Lens w/ Fixed* mounting type (std.)**
(1/2" flange on both sides)

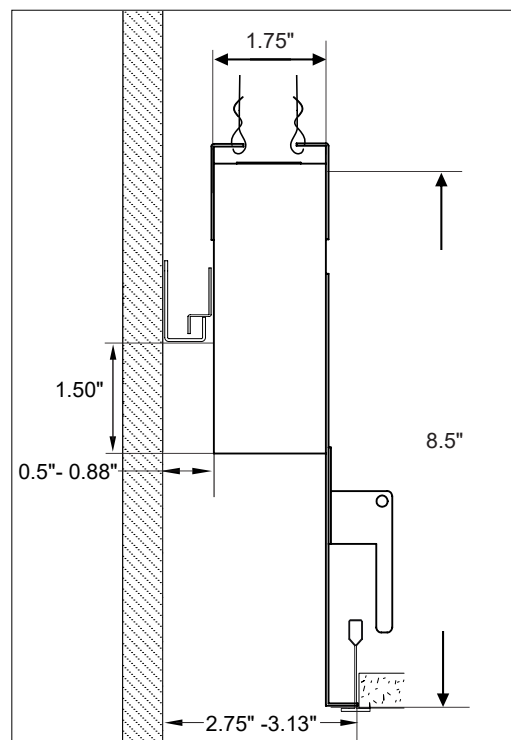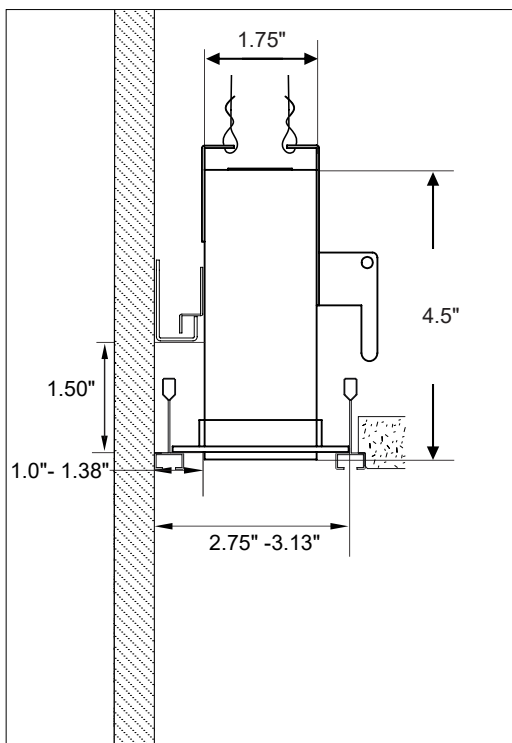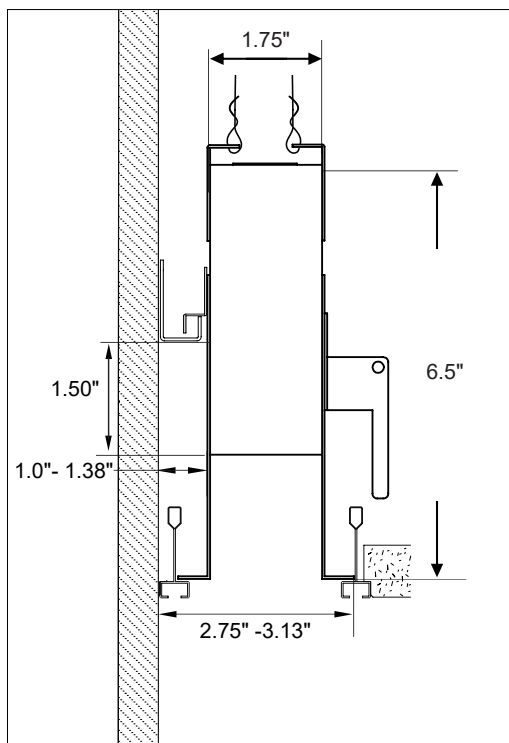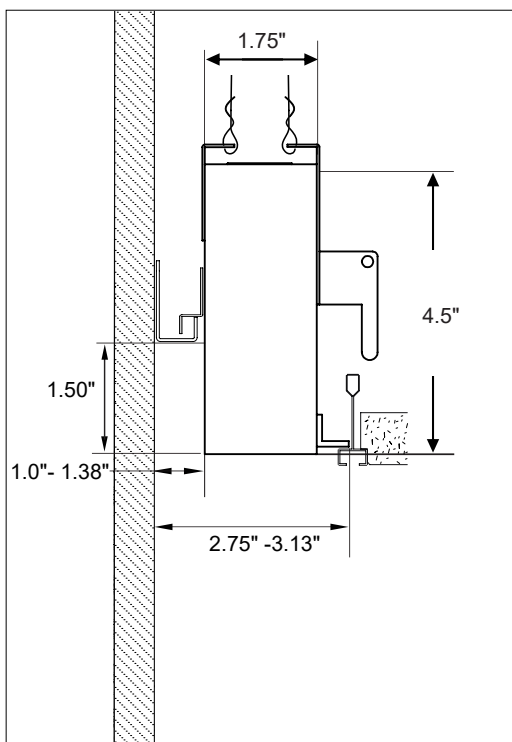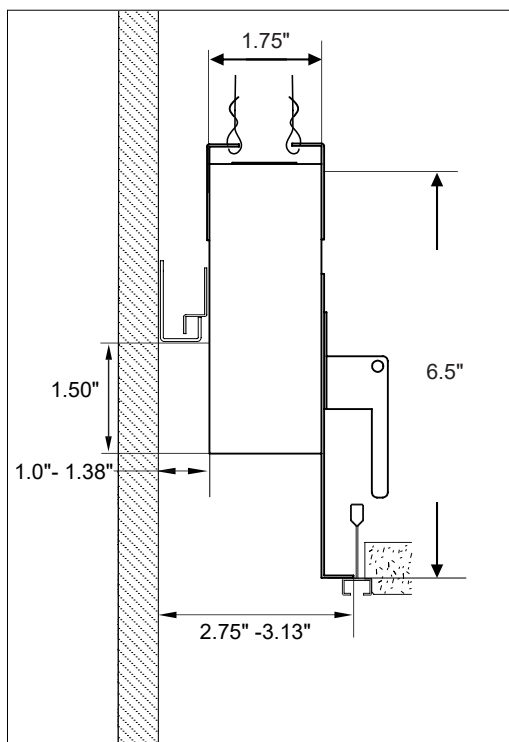**2" Regressed Lens w/ Fixed* mounting type**
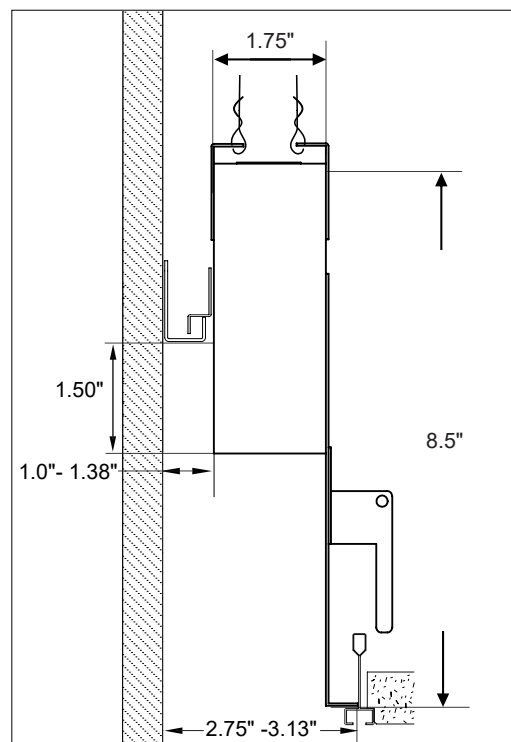(1/2" flange on both sides)

4" Regressed Lens w/ Fixed* mounting type
(1/2" flange on both sides)

Flushed Lens w/ NF* mounting type (std.)
(1/2" flange on one side)

2" Regressed Lens w/ NF* mounting type
(1/2" flange on one side)

4" Regressed Lens w/ NF* mounting type
(1/2" flange on one side)

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CUBE1-PR

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
		<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
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	<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.

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CUBE 1 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).