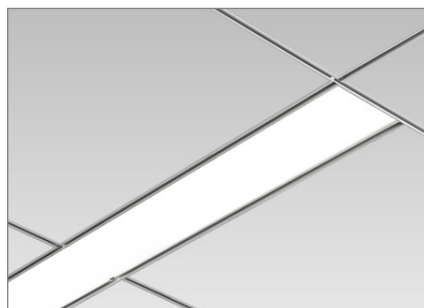


CUBE4

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 array LEDs.
- 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.
- DLC listed. ²⁸
- 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). 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	Lumen Output (Down)	Lumen Efficiency
CUBE4	2'	18L	9.9W	1209.58 lm (100%)	122.18 lm/W
		27L	14.85W	1868.7 lm (100%)	125.84 lm/W
		36L	19.8W	2482.1 lm (100%)	125.36 lm/W
		48L	26.4W	3073.65 lm (100%)	116.4 lm/W
		54L	29.7W	3507.57 lm (100%)	118.10 lm/W
	3'	18L	14.85W	1814.3 lm (100%)	122.18 lm/W
		27L	22.27W	2802.45 lm (100%)	125.84 lm/W
		36L	29.7W	3723.19 lm (100%)	125.36 lm/W
		48L	39.6W	4610.48 lm (100%)	116.4 lm/W
		54L	44.55W	5261.3 lm (100%)	118.10 lm/W
	4'	18L	19.8W	2419.2 lm (100%)	122.18 lm/W
		27L	29.7W	3737.5 lm (100%)	125.84 lm/W
		36L	39.6W	4964.4 lm (100%)	125.36 lm/W
		48L	52.8W	6147.4 lm (100%)	116.4 lm/W
		54L	59.4W	7015.7 lm (100%)	118.10 lm/W
	5'	18L	24.75W	3023.9 lm (100%)	122.18 lm/W
		27L	37.13W	4672.4 lm (100%)	125.84 lm/W
		36L	49.5W	6205.3 lm (100%)	125.36 lm/W
		48L	66W	7682.4 lm (100%)	116.4 lm/W
		54L	74.25W	8768.9 lm (100%)	118.10 lm/W
	6'	18L	29.7W	3628.7 lm (100%)	122.18 lm/W
		27L	44.55W	5606.1 lm (100%)	125.84 lm/W
		36L	59.4W	7446.38 lm (100%)	125.36 lm/W
		48L	79.2W	9220.96 lm (100%)	116.4 lm/W
		54L	89.1W	10522.71 lm (100%)	118.10 lm/W
	8'	18L	39.6W	4838.3 lm (100%)	122.18 lm/W
		27L	59.4W	7474.89 lm (100%)	125.84 lm/W
		36L	79.2W	9928.5 lm (100%)	125.36 lm/W
48L		105.6W	12294.6 lm (100%)	116.4 lm/W	
54L		118.8W	14030.28 lm (100%)	118.10 lm/W	

OUTPUT CURRENT

SW1	SW2	Bi-Level		Tri-Level (Default)	
		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%

CUBE4

WEIGHT

Item	lbs	kg
CUBE 4 2FT DRYWALL	9.49	4.31
CUBE 4 3FT DRYWALL	13.54	6.14
CUBE 4 4FT DRYWALL	16.89	7.66
CUBE 4 8FT DRYWALL	30.52	13.85
CUBE 4 4FT G1	15.15	6.87
CUBE 4 8FT G1	28.35	12.86
CUBE 4 4FT SS	14.76	6.70
CUBE 4 8FT SS	27.11	12.30
CUBE 4 HC90 DRYWALL	19.49	8.84
CUBE 4 X DRYWALL	21.37	9.70
CUBE 4 T DRYWALL	16.20	7.35

ORDERING INFORMATION

EXAMPLE: CUBE4-IND-4-D27L-30K-FT-UNV-STB


MODEL	ROW ¹	SECTION ²	LED Downlight (per/4ft section)	COLOR TEMP.
CUBE4-IND (Individual Mount) CUBE4-CON (Continuous Row Mount)	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 ⁵	D18L 18W LED (665 lm/ft) D27L 27W LED (825 lm/ft) D36L 36W LED (1140 lm/ft) D48L 48W LED (1371 lm/ft) D54L 54W LED (1614 lm/ft)	-27K 2700K ¹² -30K 3000K -35K 3500K -40K 4000K -50K 5000K
CUBE4-CM (Custom)	Must provide a sketch on the last page		* Maximum wattage per 4ft section - recessed mount : 54W(down light) * Contact factory for custom wattage or lumen requirement.	

* 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.

CRI	MOUNTING	VOLTAGE	EM SECTION ⁶	FINISH ¹³
(Blank) C9 80+ CRI 90+ CRI ¹¹	G1 9/16", 15/16", 1" T-bar Ceiling Grid ²⁰ SS 9/16" Screw Slot, 9/16" T-bar with Regular tile ceiling FT Standard 1/2" Flange ^{3, 21} SF Spackle Flange (Trimless) ^{3, 14, 21} 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 ¹⁷ *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) ES566 eldoLED 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% EC eldoLED ECOdrive 0-10V natural dim to 1% (Hybrid HydraDrive) 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 DMX DMX512 control system (Only available with RGB+W option) DLM Wattstopper's DLM interface (Only available with RGB+W option) LTEA2W Hi-lume 1% 2-wire LED driver (120V forward phase only) ²⁵ BLT Bluetooth Mesh System (contact factory for more information)

CUBE4

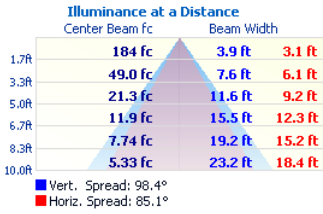
OPTIONS		LIGHTING CONTROL SYSTEM	
STB	Slip Through Bracket ⁴	LUTRON VIVE  Click Here! SNS200 <EasySense> EasySense Fixture-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) ^{15, 19} RS-IR IR dongle v2.0 for EasySense control SU-5E <Enlighted> 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) ¹⁶ RS-WS Enlighted Room controller providing basic control functions of a standard wall switch with preset dimming capability IFS105SE <Bluetooth> Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming PPA102S Bluetooth Powerpack (Consult factory for installation location)	
HC90-11	90° Horizontal Lit Connector, 1'x1' ^{22, 26}		
HC90-12	90° Horizontal Lit Connector, 1'x2' ^{22, 26}		
HC90-21	90° Horizontal Lit Connector, 2'x1' ^{22, 26}		
HC90-22	90° Horizontal Lit Connector, 2'x2' ²⁶		
HC135-22	135° Horizontal Lit Connector, 2'x2' ^{22, 26}		
TC	T-Type Lit Connector ²²		
XC	X-Type Lit Connector ²²		
CW90	Ceiling to Wall corner connector ¹⁸		
EMG8	1296 LUMEN EM Battery Backup (CEC Compliant EM) ⁹		
EMG15	2430 LUMEN EM Battery Backup (CEC Compliant EM) ⁹		
EMG20	3240 LUMEN EM Battery Backup (CEC Compliant EM) ⁹		
EMG25	4050 LUMEN EM Battery Backup (CEC Compliant EM) ⁹		
ELCU-200	Fail-to-on Emergency lighting, UL924 ¹⁰		
GTD	Bodine Generator Transfer Device		
GTD10DIM	Bodine Generator Transfer Device (0-10VDC Dimmer Override)		
GLR	Fast Blow Fuse ²⁴		
GMF	Slow Blow Fuse ²⁴		
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) ²⁷		
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		
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		

NOTES:

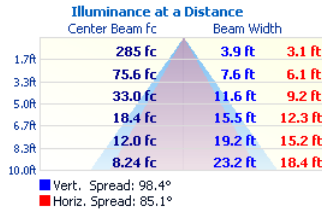
- Specify only when Continuous Row Mount.
- No need to select, if same as row length and section length.
- Requires # STB as standard.
- Standard with "FT" and "SF" mounting.
- Comes with 1pc 8ft lens.
- EM is installed in last 4' of luminaire sections. Separate section required 2SE or specified. Must 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.
- 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 X1 ceiling type.
- Compatible with X2 ceiling type.
- Only available for -FT mounting application.
- 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.
- Refer to a separate CUBE4-HC90 spec sheet to find more information.
- Automatic on/off is not available. For automatic on/off, additional occupancy sensor is required or a manual on/off switch can be done.
- 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.

CUBE4

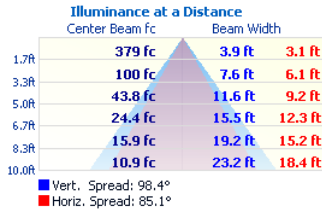
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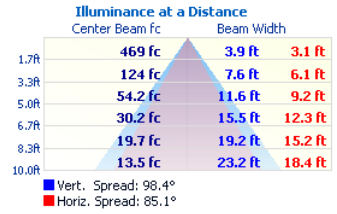
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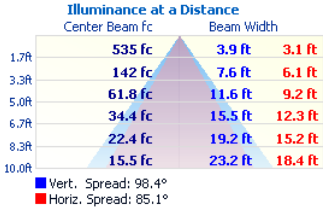
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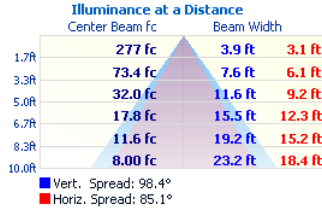
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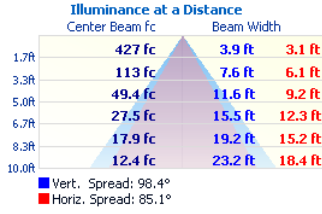
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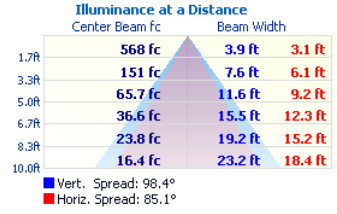
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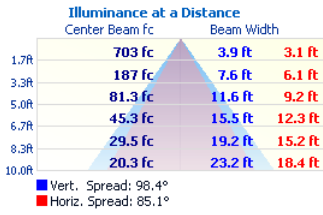
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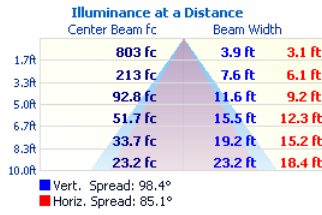
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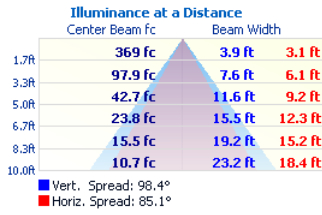
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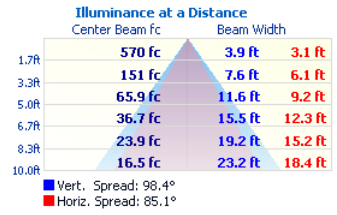
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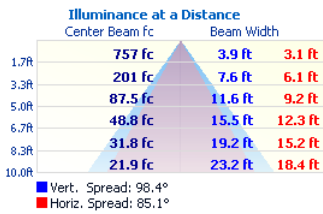
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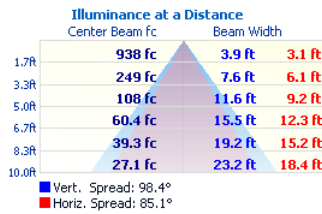
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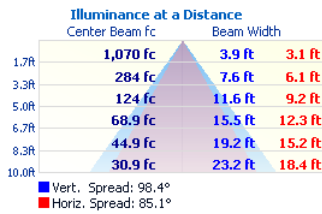
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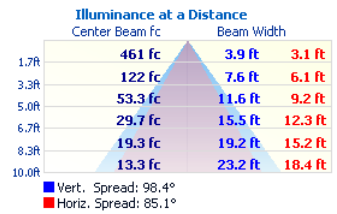
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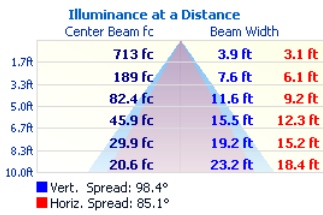
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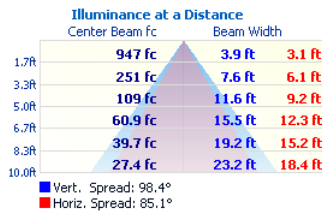
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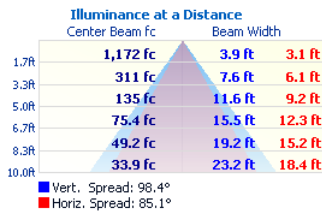
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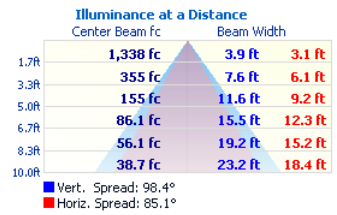
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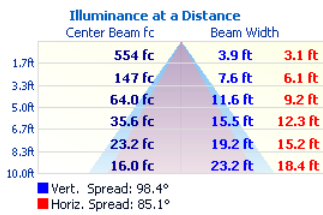
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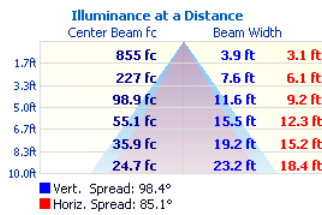
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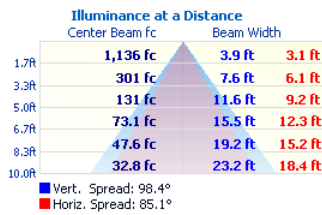
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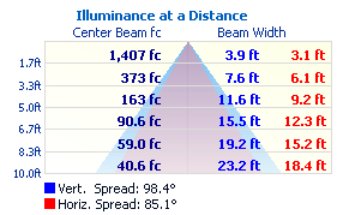
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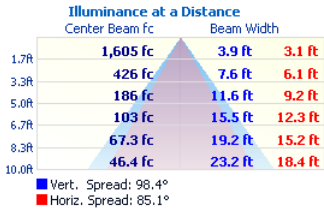


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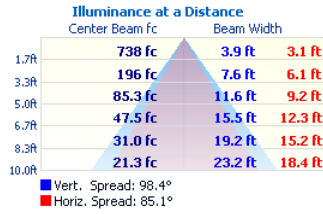


CUBE4

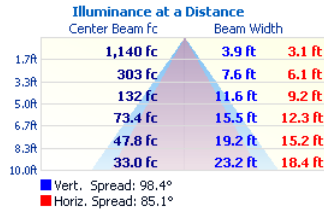
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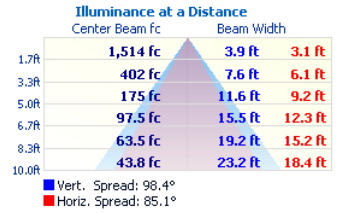
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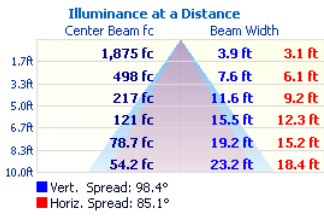
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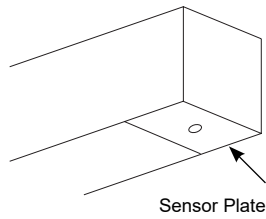
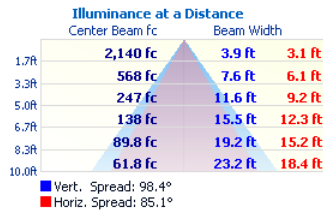
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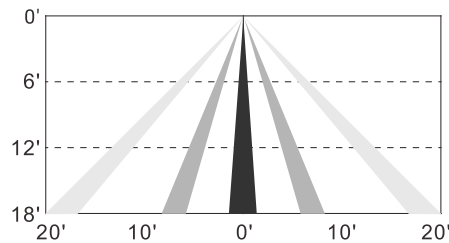


Lutron Vive Integral fixture control installation

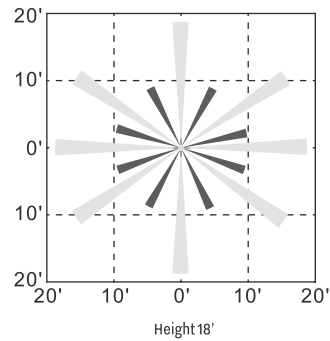


EasySense fixture-mount installation

SIDE VIEW



TOP VIEW

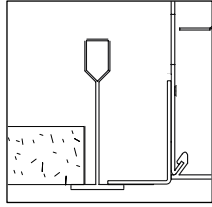


AMS, IFS105SE coverage pattern

CUBE4

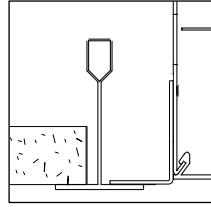
- MOUNTING DETAILS

9/16" Grid Mounting Options



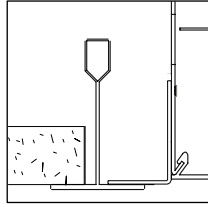
9/16" Grid, Standard Tile:
Specify G1 in part #

15/16" Grid Mounting Options



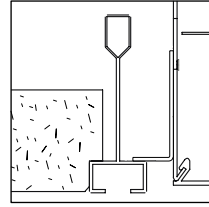
15/16" Grid, Standard Tile:
Specify G1 in part #

1" Grid Mounting Options



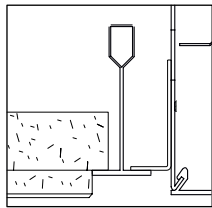
1" Grid, Standard Tile:
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9/16" Screw Slot Mounting



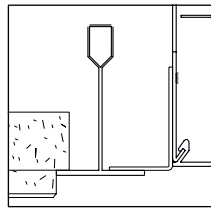
Screw Slot Grid:
Specify SS in part #

9/16" T-bar with Tegular Tile



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

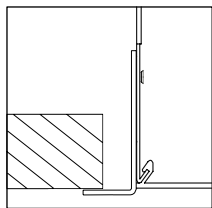
15/16" Grid with Tegular Tile



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

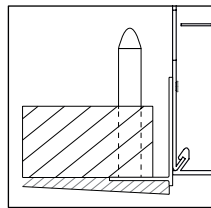
- DRYWALL RECESSED CEILING

Flanged Trim



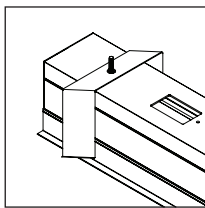
Exposed Flange Detail:
Specify FT in part #

Spackle Flanged Trim



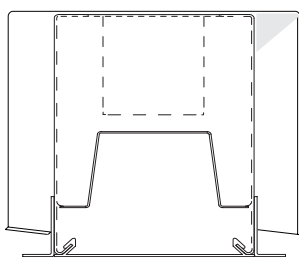
Specify SF in part #

Rotating Crossbar

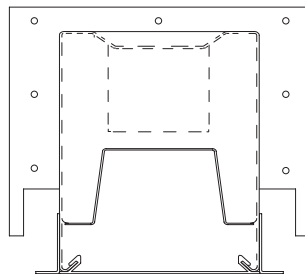


Rotating Crossbar is provided
with FT and SF type
as standard

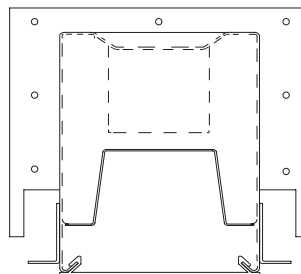
Drywall



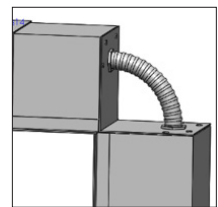
T-bar (G-1)



Screw Slot (SS)

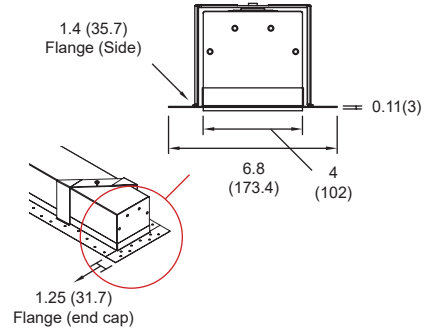
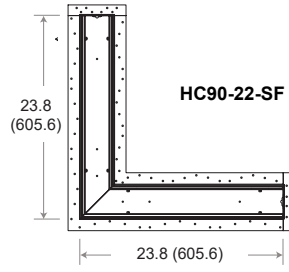
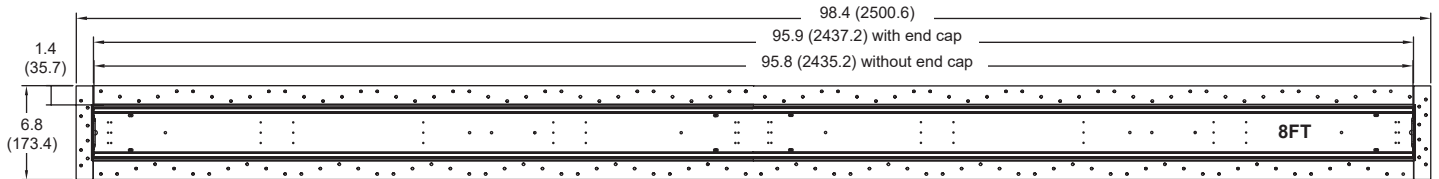
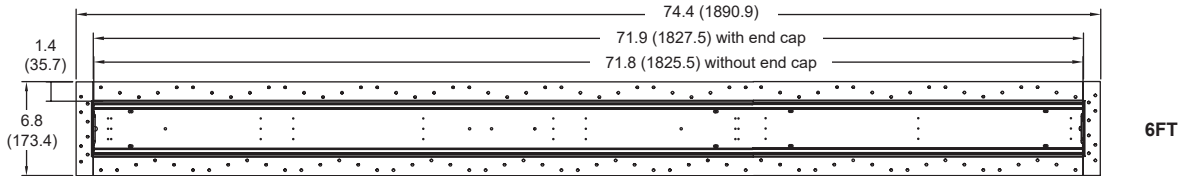
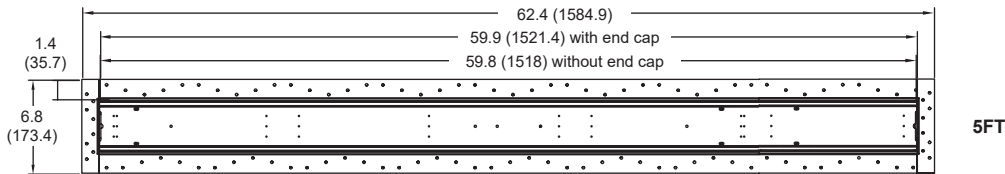
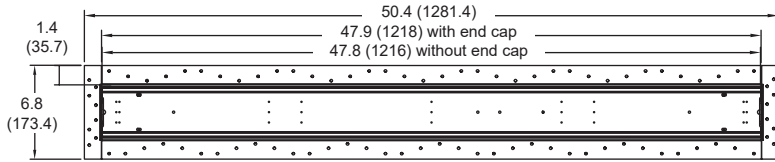
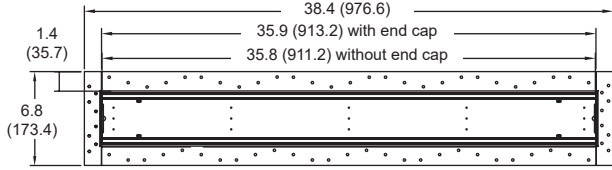
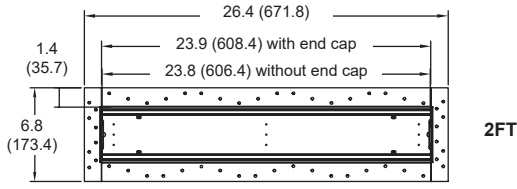


CW90



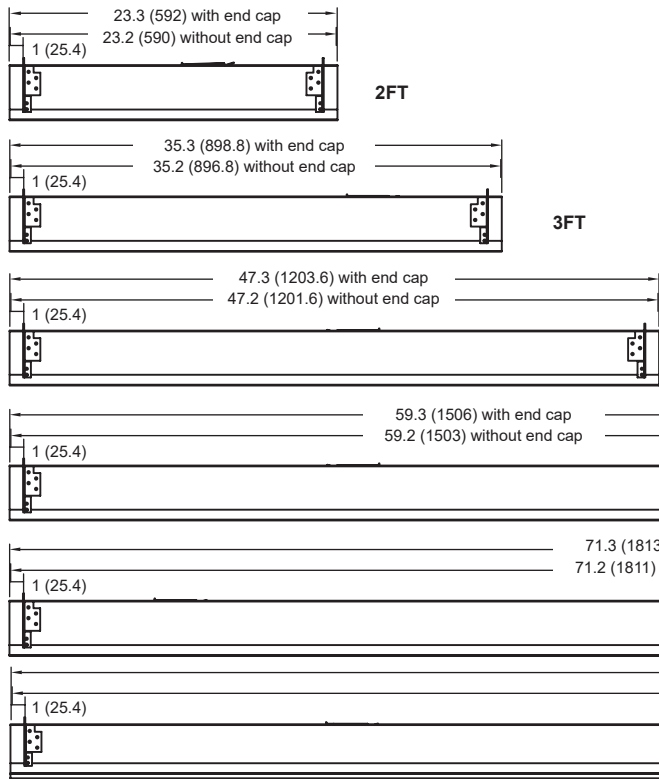
ARCHITECTURAL LINEAR RECESSED

CUBE4-SF



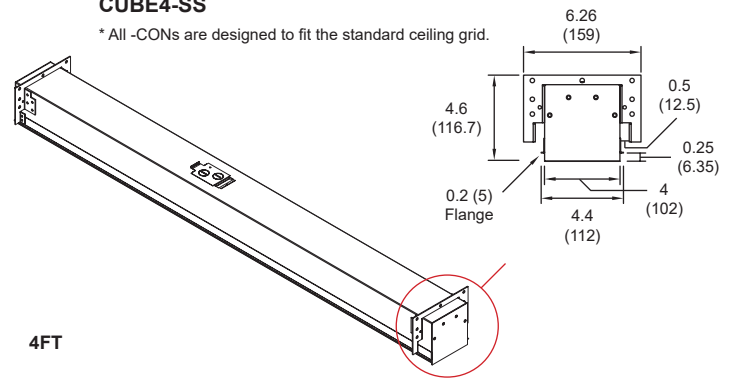
All dimensions are in inches (millimeters).

ARCHITECTURAL LINEAR RECESSED



CUBE4-SS

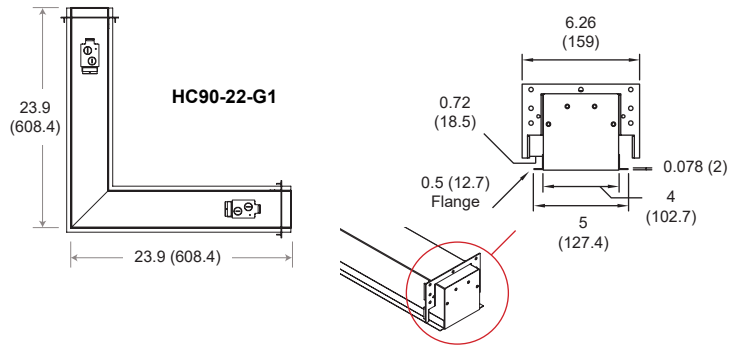
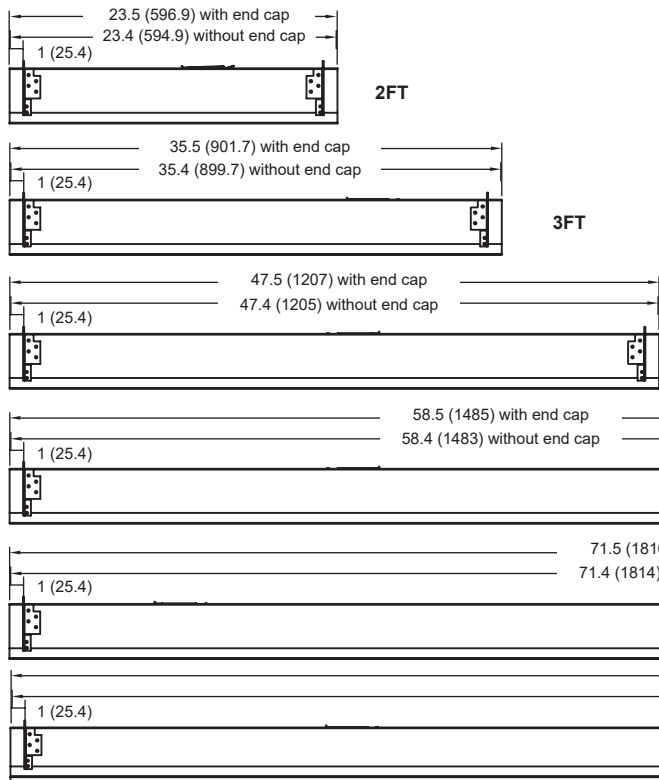
* All -CONs are designed to fit the standard ceiling grid.



All dimensions are in inches (millimeters).

CUBE4-G1

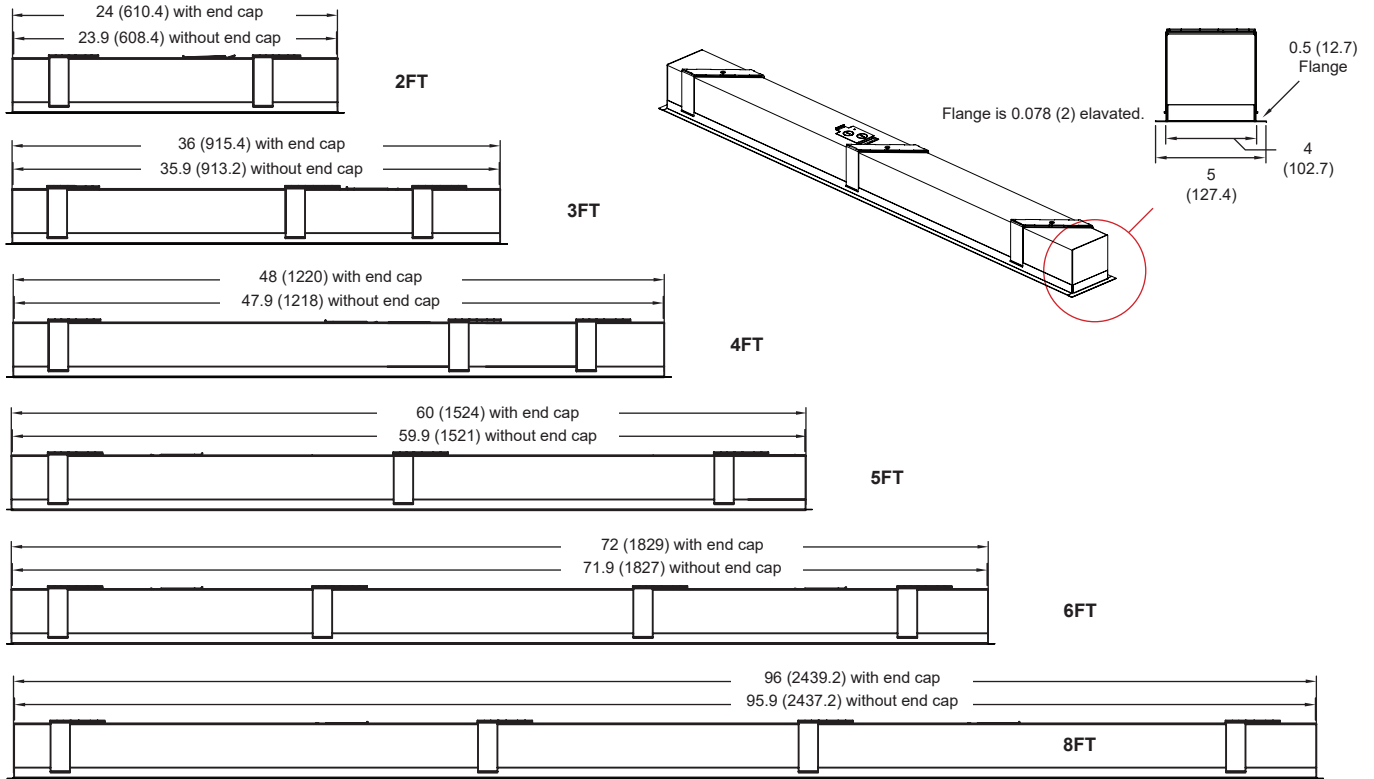
* All -CONs are designed to fit the standard ceiling grid.



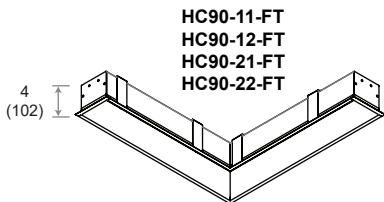
ARCHITECTURAL LINEAR RECESSED

CUBE4-FT

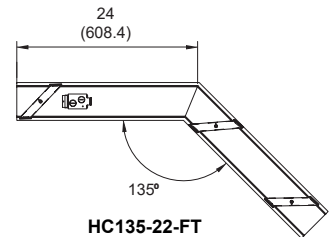
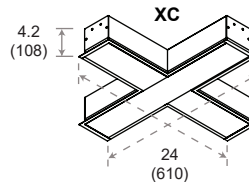
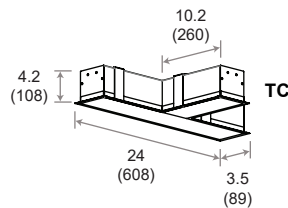
All dimensions are in inches (millimeters).



- 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>	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 - DDTV-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:

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 4 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).

