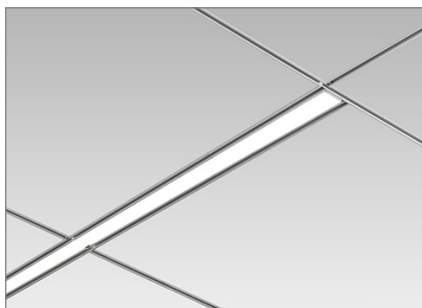# CUBE1

Project Name:	
Type:	

APPLICATION

The extruded aluminum CUBE1 LED Architectural Recessed Linear is perfect for multiple applications such as commercial, general office, banking, retail and educational environments.

FEATURES:

- One piece extruded aluminum housing with die-cast aluminum end caps.
- One piece extruded snap-in acrylic lens up to 8' run.
- Standard powder-coat textured white finish.

MOUNTING:

- Compatible with T-Bar and drywall ceiling.

LED:

- High quality array LEDs.
- IES LM80 tested.
- 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.
- 0-10VDC 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.

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).
- 5 years limited warranty.
- 7 or 10 years limited warranty (optional). [11]

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

UTOPIA LIGHTING reserves the right to change specifications, drawings, dimensions without prior notice.

UTOPIA LIGHTING

CUBE1

ORDERING INFORMATION

MODEL	ROW [1]		SECTION [2]		LED Downlight (per/4ft section)		COLOR TEMP.	
CUBE1-IND (Individual Mount)	xx'	Specify nominal overall row length in 1' increments (Continuous runs)	2	2' Length	**D9L**	9W LED (272 lm/ft)	-27K	2700K [4]
			3	3' Length	**D18L**	18W LED (544 lm/ft)	-30K	3000K
CUBE1-CON (Continuous Row Mount)			4	4' Length	**D27L**	27W LED (816 lm/ft)	-35K	3500K
			5	5' Length	**D36L**	36W LED (1089 lm/ft)	-40K	4000K
			6	6' Length			-50K	5000K
	*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.		8	8' Length [3]	* Maximum wattage per 4ft section: 36W * Contact factory for custom wattage or lumen requirement.			

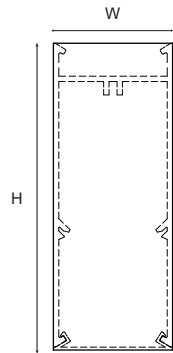| CRI		MOUNTING		VOLTAGE		EM SECTION [6]		FINISH [14]	
(Blank)	80+ CRI	**G1**	9/16", 15/16", 1" T-bar Ceiling Grid [13]	**UNV**	120-277V	**(Blank)**	None EM	**(Blank)**	Matte White RAL #9003 (Std.)
C9	90+ CRI [5]	**FT**	Standard 1/2" Flange [14, 15]	**120**	120V	**1SE**	1 Section	***BK**	Black RAL #9011
		SF	Spackle Flange (Trimless) [14, 15]	**277**	277V	**2SE**	2 Section	***SV**	Silver (RAL #9022)
				347	347V [17]	**xSE**	x Section	****CC**	Custom Color [18]
								***CSS**	Custom Canopy Color (White is Std.)
								***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%)	**DTO**	0-10V DIM-TO-OFF
PHSR	Philips Xitanium Sensor-Ready, Dali 5%~100% dim.		
PHDL	Philips Xitanium DALI driver, Dim to 5%		
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%)	✸ **BLT**	Bluetooth Mesh System (contact factory for more information)

OPTIONS

EMG8	8W EM Battery Backup (CEC Compliant EM) [7, 8, 9]	**AMS**	Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming
EMG15	15W EM Battery Backup (CEC Compliant EM) [7, 8, 9]	**DPMS**	Daylight Dimming Photo Sensor (0-10 VDC Control), (additional set up / occupant remote may be required)
EMG20	20W EM Battery Backup (CEC Compliant EM) [7, 8, 9]	**LSR-301-S**	Setup Remote Control for DPMS (Required for DPMS)
EMG25	25W EM Battery Backup (CEC Compliant EM) [7, 8, 9]	**LSR-301-P**	Occupant Remote Control for DPMS
STB	Slip Through Bracket [12]	**O7W**	Optional 7 Years Limited Warranty [11]
F1	Single fuse for 120/277/347V	**O10W**	Optional 10 Years Limited Warranty [11]
F2	Double fuse for 208/240V	**ARRA**	Assembled in USA
ELCU-200	Fail-to-on Emergency lighting, UL924 [10]	**BAA**	BAA(Buy American Act) and BABA(Build America Buy America) compliant

NOTES:
1. Specify only when Continuous Row Mount.
2. Skip if row and section length are the same.
3. Comes with 1pc 8ft lens.
4. Available with C9 (CRI 90+) only.
5. Lumen per watt is about 15% less than standard CRI 80+.
6. EM is installed in last 4' of luminaire section. Separate section required must specify 2SE or xSE. Must specify voltage, not available with 347V.
7. Contact factory for other emergency ballast options.
8. Must specify voltage 120/277, not available with 347V.
9. Integrated installation may not be available with 2ft & 3ft luminaire due to limited space. Can be remote mounted.
10. Shipped separately.
11. This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation.
12. Required for FT and SF mounting type.
13. Compatible with T-bar ceiling type.
14. Compatible with hard ceiling type.
15. Must be ordered with STB from the option.
16. Automatic on/off is not available. Additional occupancy sensor is required or a manual on/off switch can be done.
17. Not available with EM.
18. Refer to color charts (RAL and/or Cardinal) in the separate attachment.
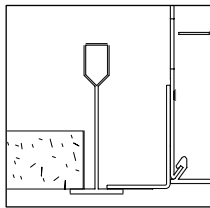
CUBE1

Specifications: CUBE1
Width: 1.75 (44.5)
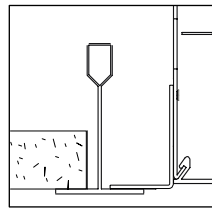Height: 4.5 (114.3)

* All dimensions are in inches (millimeters).
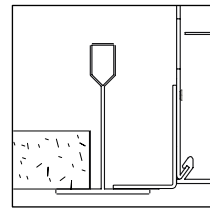
- MOUNTING DETAILS

9/16" Grid Mounting Options

15/16" Grid Mounting Options

1" Grid Mounting Options

9/16" Grid, Standard Tile:
Specify G1 in part #
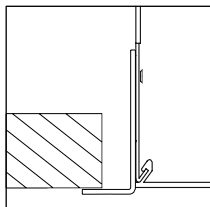
15/16" Grid, Standard Tile:
Specify G1 in part #

1" Grid, Standard Tile:
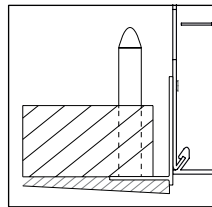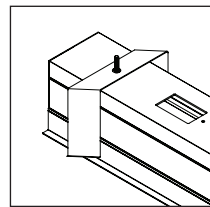Specify G1 in part #

- DRYWALL RECESSED CEILING

Flanged Trim

Spackle Flanged Trim

Rotating Crossbar

Exposed Flange Detail:
Specify FT in part #

Specify SF in part #

Rotating Crossbar is provided
with FT and SF type
as standard

CUBE1

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.

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.