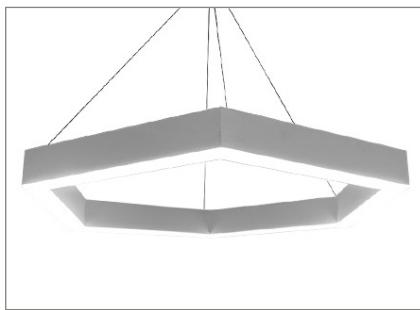


CUBE2-HEX



APPLICATION

The CUBE2-HEX is a featured Architectural Shaped Linear fixture. Housing is formed by cold-rolled steel with a highly reflective dieformed white painted steel reflector. The snapin acrylic lens provides easy installation. It is used for multiple applications such as commercial, general office, banking, retail and educational environments.

MOUNTING:

- Pendant, surface mount.

LED:

- High quality arrayLEDs.
- 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:

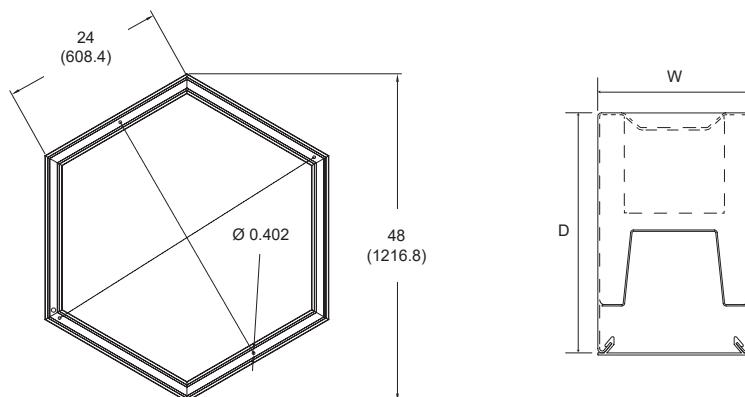
- High power factor electronic driver, operate from a 120 ~ 277 Vac input range, 50 / 60 Hz.
- Features included over voltage protection, surge, short circuit protection and over load protection.
- Power Factor: typical > 0.95, THD <20, meets Class1 or Class 2 circuit.
- 0-10V dimmable driver as standard.
- 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.
- 7 or 10 years limited warranty. (optional) ⁴
- Bluetooth Mesh System available, please contact factory for more information.



Specifications: CUBE2

Width: 2.5 (64)
Depth: 4 (101)

All dimensions are in inches (millimeters).

CUBE2-HEX

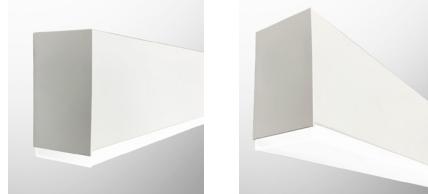
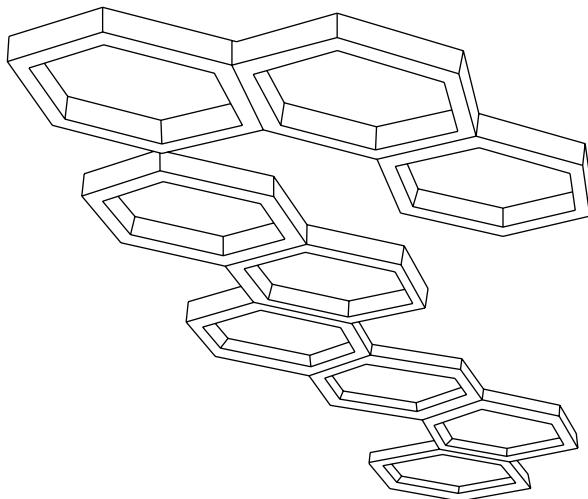
CONFIGURATIONS

Series	Model #	AC Input	Fixture Lumen Output (4000K)	Lumen Efficiency (4000K)
CUBE2-HEX	D18L	59.4W	7682.76 lm (100% Down)	129.34 lm/W
	D27L	89.1W	9850 lm (100% Down)	110.55 lm/W
	D36L	118.4W	12734 lm (100% Down)	107.19 lm/W
	D48L	158.4W	16869.6 lm (100% Down)	106.5 lm/W
	D54L	178.2W	18878.5 lm (100% Down)	105.94 lm/W
	18L/18L	118.8W	7076.2 lm (57.6% Down) / 5208.9 lm (42.4% Up)	12285 lm
	27L/18L	148.5W	9911 lm (63% Down) / 5821 lm (37% Up)	18432 lm
	27L/27L	178.2W	10614 lm (57.6% Down) / 7813.3 lm (42.4% Up)	18427.3 lm
	36L/18L	177.8W	12560 lm (65.5% Down) / 6615.8 lm (34.5% Up)	19175.8 lm
	48L/18L	217.8W	14299 lm (64.6% Down) / 7835.7 lm (35.4% Up)	22134.7 lm
	48L/27L	247.5W	14915 lm (59.3% Down) / 10237.8 lm (40.7% Up)	25152.8 lm
	54L/18L	237.6W	17627.5 lm (73% Down) / 6519.7 lm (27% Up)	24147 lm
	54L/27L	267.3W	18840 lm (65.5% Down) / 9924 lm (34.5% Up)	28764 lm

CCT	Multiplier		
	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%



DROP LENS

CUBE2-HEX

ORDERING INFORMATION

EXAMPLE: CUBE2-HEX-D27L-40K-UNV

MODEL		SHAPE		LED Downlight		LED Uplight ¹		COLOR TEMP.	
CUBE2	HEX	Hexagon shape		(Blank) D18L D27L D36L D48L D54L	No Downlight ²¹ 18W LED 27W LED 36W LED 48W LED 54W LED	(Blank) /U18L /U27L	No Uplight 18W LED 27W LED	(Blank) -27K -30K -35K -40K -50K	Leave blank if you wish to have different CCT for up and down, and fill out next section 2700K ²² 3000K 3500K 4000K 5000K

¹ Maximum wattage per HEX - 267.3W (up & down light).
² Contact factory for custom wattage or lumen requirement.

SEPARATE CCT.				CRI		MOUNTING		VOLTAGE		EM SECTION ²		
(Blank)	Leave blank if you chose to have the same CCT for up and down in the previous section Indicate 27,30,35,40, or 50 for XX and YY (D represents Downlight, U represents Uplight)	(Blank)	C9	80+ CRI 90+ CRI ⁸		(Blank)	S	Pendant Ceiling Surface	UNV 120 277 347	120-277V 120V 277V 347V ¹²	(Blank) 1SE 2SE xSE	None EM 1 Section 2 Section x Section

Fixture Finish ⁹		CORD FINISH (for pendant)		CANOPY FINISH (for pendant)		CEILING TYPE (for pendant)		SUSPENSION LENGTH (for pendant)	
(Blank) *BK *SV **CC *AMB	Matte White RAL #9003 (Std.) Black RAL #9011 Silver (RAL #9022) Custom Color ¹⁰ Anti-Microbial Coating (Matte Skye White)	(Blank) *BKC	White (Std.) Black	(Blank) *BC *SC **CSS	White (Std.) Black Canopy Silver Canopy Custom Canopy Color (White is Std.)	X1 X2 X3 X4 X5	15/16" grid T-bar ceiling Hard ceiling Sloped Hard ceiling 9/16" T-bar ceiling 9/16" Screw Slot ceiling	AC48 AC96 ST24 ST48	Adjustable Aircraft Cable Canopy 48" L Adjustable Aircraft Cable Canopy 96" L Stem Canopy 24" L Stem Canopy 48" L

⁹ Non-standard finish with extra charge.
¹⁰ Additional charge & set up fee.

¹¹ Contact factory for custom length.
¹² 1 pair (2 aircraft cables) standard for up to 8' length.
¹³ add "FC" at the end of stem length for field cuttable stem kit (Ex) ST48FC

LED DRIVER				OPTIONS					
(Blank) UDSD SP ES566 SD40 SDXX PHSR PHDL ED560 TDM TD30/70 TDXX/YY LDE1 ELV TRIOT DTO DMX DLM LTEA2W	0-10V dim to 1% (Std.) (dim both uplight and downlight simultaneously) Separate Dimming Control of Uplight and Downlight (0-10V dim to 1%) ^{3,11} Separate Power Control for Uplight and Downlight eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim 40% / 100% Bi-Level Step dim XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%) Philips Xitanium Sensor-Ready, Dali 5%-100% dim. Philips Xitanium DALI driver, Dim to 5% eldoLED LightShape DALI dim to dark, 0.1% ~ 100% Triac Dim. (120V only) 30% / 70% / 100% Tri-Level Step dim XX% / YY% / 100% Tri-Level Step dim (Specify XX, YY : 10%-70%) Hi-lume 1% EccSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim ELV compatible (reverse-phase or trailing-edge), (120V only) Tridonic IoT ready, 1-100% dim via Smart Module Interface (SMI), automated dimming/lighting controls via Enlightened Sensor Interface 0-10V DIM-TO-OFF DMX512 control system (Only available with RGB+W option) Wattstopper's DLM interface (Only available with RGB+W option) Hi-lume 1% 2-wire LED driver (120V forward phase only) ¹⁹	EMG8 EMG15 EMG20 EMG25 ELCU-200 GTD GTD10DIM F1 F2 ARRA BAA TAA O7W O10W COC UPC DROP E1F E2F 1296 LUMEN EM Battery Backup (CEC Compliant EM) ^{6,20} 2430 LUMEN EM Battery Backup (CEC Compliant EM) ^{6,20} 3240 LUMEN EM Battery Backup (CEC Compliant EM) ^{6,20} 4050 LUMEN EM Battery Backup (CEC Compliant EM) ^{6,20} Fail-to-on Emergency lighting, UL924 ⁷ Bodine Generator Transfer Device Bodine Generator Transfer Device (0-10VDC Dimmer Override) Single Fuse ¹³ Double Fuse ¹³ 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 ⁴ Optional 10 Years Limited Warranty ⁴ Separated EM feed for City of Chicago code compliance Indirect Light Cover 1/2" drop lens End feed on one end (Pre-drilled hole for 1/2" fitting) End feed on both ends (Pre-drilled holes for 1/2" fitting)							



Bluetooth Mesh System (contact factory for more information)

CUBE2-HEX

CONTROLS	
AMS	<Integrated Sensors> WALL MOUNT DOES NOT APPLY
DPMS	Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming ²⁹
SO	Daylight Dimming Photo Sensor (0-10 VDC Control), (LSR-301-S required if FD-301 is installed) ²⁸
LSR-301-S	Dimming Wires connected to Sensor Only (available option on FS-205 non-Bluetooth AMS sensor only) ⁵
LSR-301-P	Setup Remote Control for DPMS (Required for DPMS)
LOS-502S-x-y	Occupant Remote Control for DPMS
LOD-500S-x-y	<Ceiling / Wall mount Sensors> ¹⁴
BED-500S-x	PIR occupancy sensor, no dimming support, 120-277V, adjustable with DIP switch (See note 15, 17 to select mounting type "x" and lens "y")
RS-LRD	Bi-level 0-10V occupancy sensor, 120-277V, adjustable with DIP switch (See note 15, 18 to select mounting type "x" and lens "y")
LBS-700N	Daylight sensor for daylight harvesting control, 0-10V high/low dim or SmartDim control, 120-277V, controlled with IR remote programmer. (See note 16 to select mounting type "x")
LLD-700S	IR remote programmer for LRD-509S, BED-500S series
LOS-502S-x-y	On/Off occupancy and vacancy sensor, line voltage, 120-277V, adjustable via DIP switch
LOD-500S-x-y	Dual-tech bi-level wall switch occupancy sensor (PIR & HFD), line voltage with 1-pole SLV for on/off switching and 0-10V for manual dimming, 120-277V, adjustable via DIP switch

LIGHTING CONTROL SYSTEM	
LUTRON VIVE	<p><Lutron Vive System Enabled>  Click Here!</p> <p><EasySense> EasySense Fixture-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) ^{23,24} EasySense Ceiling-mount occupancy sensing, daylight harvesting and task tuning in one device ^{24,25}</p> <p>RS-IR</p>
SNS200	
SNS200C	
RS-IR	
	<p>SU-5E-IoT</p> <p>SU-5E-CL</p> <p>RS-WS</p> <p>TMC-SU-5E 3ON 7F</p> <p>ELIOP-SR ELIOP-LR SR-W DR-W</p> <p>CASAMBI</p>
	<p><Enlighted> Enlighted IoT-Ready Indoor Micro sensor with occupancy/vacancy detection, daylight harvesting, thermal sensing, task tuning, and room and zone control, Bluetooth enabled ^{25,26}</p> <p>Enlighted Indoor Micro sensor with occupancy/vacancy detection, daylight harvesting, thermal sensing, task tuning, and room and zone control, Bluetooth enabled (Connected lighting sensor only)</p> <p>Enlighted Room controller providing basic control functions of a standard wall switch with preset dimming capability</p> <p>Tile Mount Carrier ²⁷ 30in extension cable 7ft extension cable</p> <p><Elite Control> Bluetooth wireless PIR occupancy sensor with built-in daylight harvesting, short range Bluetooth wireless PIR occupancy sensor with built-in daylight harvesting, long range Bluetooth wireless single rocker pad, white finish Bluetooth wireless double rocker pad, white finish</p> <p>Contact factory for CASAMBI READY options</p>

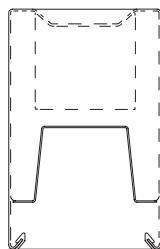
NOTES:

1. Pendant, wall mount only.
2. EM is installed in last 4' of luminaire sections. Separate section required 2SE or specified. Must specify voltage, not available with 347V.
3. 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.
4. This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation.
5. Dimming wires provided and connected to sensor only, not for dimmer switch.(available with AMS and DPMS option)
6. Contact factory for other emergency ballast options.
7. Shipped separately.
8. Lumen per watt is around 15% less than standard CRI (80+).
9. Cord is available in white or black. (Black is not available for the EM option)
10. Refer to color charts (RAL and/or Cardinal) in the separate attachment.
11. Can have up to 2 power feeds depending on the configuration.
12. 347V cannot work with Emergency Battery Backup.
13. Must specify voltage, not available with 347V.
14. Wall mounted fixture MUST choose the sensor from the following list. Shipped separately.
15. "x" = S : Ceiling Surface
C : Junction Box
16. "x" = S : Ceiling Surface
C : Junction Box
R : Ceiling Recess
17. "y" = A : Standard cone shape Lens @ 15' height (up to 2x height coverage)
B : Extra wide cone shape Lens @ 10' height (up to 6X height coverage)
C : High bay cone shape Lens @ 30' height (up to 3X height coverage)
D : Standard round shape Lens @ 20' height (up to 2X height coverage)
F : Extra wide dome shape Lens @ 20' height (up to 4X height coverage)
G : Aisle way arch shape Lens @ 40' height (up to 3X height coverage)
H : High bay dome shape Lens @ 50' height (up to 1X height coverage)
18. "y" = A : Standard cone shape Lens @ 15' height (up to 2x height coverage)
B : Extra wide cone shape Lens @ 10' height (up to 6X height coverage)
C : High bay cone shape Lens @ 30' height (up to 3X height coverage)
D : Standard round shape Lens @ 20' height (up to 2X height coverage)
F : Extra wide dome shape Lens @ 20' height (up to 4X height coverage)
G : Aisle way arch shape Lens @ 40' height (up to 3X height coverage)
19. Not available with any 1ft individual configuration due to space limitations.
20. For 3ft configuration, EM can only be remote mounted. Remote box is provided by others.
21. Downlight cover may ship separately depending on the configuration.
22. Available with C9 (CRI 90+) only.
23. See NFC and IR manual in the separate attachment.
If your phone is not compatible, please order "RS-IR" and follow the manual.
24. Refer to Advanced Grouping Datasheet for its default setting and compatible wireless switches.
25. "RS-WS" option can be added if wish to have a wall switch, please see Enlightened Room Controller in the separate attachment.
26. Must be ordered either with 0-10V LED driver or TRIOT (IoT-Ready LED driver).
27. Must be ordered for wall mount.
28. Automatic on/off is not available. For automatic on/off, additional occupancy sensor is required or a manual on/off switch can be done.
29. With TDM/ELV/SDxx/TDxx: Only available with line-voltage on/off occupancy sensor.

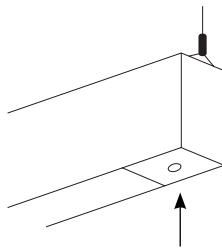
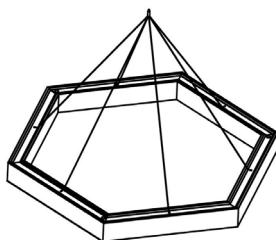
CUBE2-HEX

- MOUNTING DETAILS

Surface



CABLE



Sensor Plate

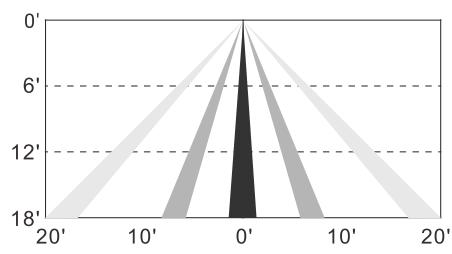


Lutron Vive Integral
fixture control installation

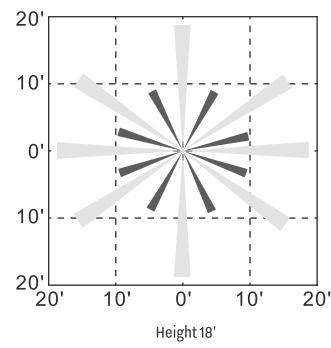


EasySense
fixture-mount installation

SIDE VIEW



TOP VIEW



AMS coverage pattern

CUBE2-HEX

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 - 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 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- <u>2</u> C/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, IlumaTech IP106-1LX, ToggleTouch TG106-1LW (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.