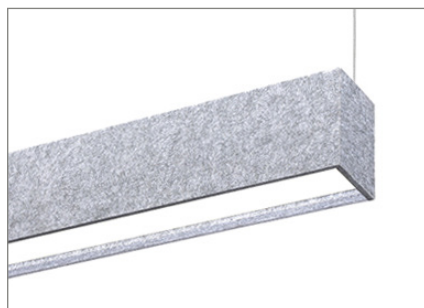


CUBE2-NRC

Project Name:	
Type:	



APPLICATION

The CUBE2-NRC offers an easy integration of lighting and acoustic solutions. While the acoustic provides an acoustic solution to the source of noise for optimal sound absorption, seamlessly designed acoustic felt gives design flexibility and personalization for any application. Perfect for places in need to reduce reverberation such as open offices and lobbies, retails, hospitality, reception areas and corridors, and commercial interiors.

FEATURE:

- Sound absorbing linear direct acoustic LED luminaire.
- Material rated for NRC (Noise Reduction Coefficient) of 0.90.
- Acoustic felt is 100% virgin polyester and 0.5" thick.
- 45 degree deburr design is standard. Flushed design is available upon request.
- Available in 6" to 24" nominal housing heights in 2" increments.
- Wide range of felt color (3 standards and 13 premium) options available. Refer to the last page for color offering.

MOUNTING:

- Pendant mount.

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:

- Fixture is powder-coated in standard white finish.
- 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.
- DLC listed. ¹²
- CEC Compliant EM (please contact for more information)
- Assembled in USA (optional)
- 5 years limited warranty.
- 7 or 10 years limited warranty. (optional) ⁶
- 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
	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%

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

CUBE2-NRC



Specifications: CUBE2-NRC

Width: 3.5 (88.9)
 Depth: MIN.6 (152.4)
 All dimensions are in inches (millimeters).

WEIGHT

Item	lbs	kg
CUBE 2 2FT PENDANT	6.76	3.07
CUBE 2 3FT PENDANT	8.91	4.04
CUBE 2 4FT PENDANT	10.78	4.89
CUBE 2 8FT PENDANT	19.71	8.94
CUBE 2 HC90 PENDANT	15.19	6.89
CUBE 2 X PENDANT	15.08	6.84
CUBE 2 T PENDANT	10.45	4.74

ORDERING INFORMATION

* These custom products are non-cancellable, non-returnable, and non-refundable with the exception of manufacturer defects or damages.


EXAMPLE: CUBE2-NRC-IND-4-D27L-40K-UNV-SM

MODEL	ROW ¹	SECTION ²	HEIGHT (heights are nominal)	LED Downlight (per/4ft section)	COLOR TEMP.	CRI
CUBE2-NRC	IND CON	Individual Mount	2 2' Length	6 6" (Minimum)	D18L 18W LED (734 lm/ft)	(Blank)
		Continuous Row Mount	3 3' Length	8 8"	D27L 27W LED (924 lm/ft)	C9
			4 4' Length	10 10"	D36L 36W LED (991 lm/ft)	80+ CRI
			6 6' Length	12 12"	D54L 54W LED (1467 lm/ft)	90+ CRI ¹⁰
			8 8' Length ³	XX Custom Height, Max. 24" (2" increments)	NL Non-Lit	
* 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. * Maximum wattage per 4ft section - 54W (down light) * Contact factory for custom wattage or lumen requirement.						

MOUNTING	VOLTAGE	EM SECTION ⁴	FINISH (fixture) ¹³	FINISH (baffle)	CORD FINISH (for pendant)
(Blank) Pendant	UNV 120-277V 120 120V 277 277V 347 347V ¹⁸	(Blank) None EM 1SE 1 Section 2SE 2 Section xSE x Section	(Blank) Matte White RAL #9003 (Std.) *BK Black RAL #9011 *SV Silver (Cardinal #T353-GR06) **CC Custom Color ¹⁵ *AMB Anti-Microbial Coating (Matte Skye White) * Non-standard finish with extra charge. ** Additional charge & set up fee.	SL Slate PW Pewter CC Premium Color (choose 2 letters from the last page) * Contact factory for lead time and pricing for premium color.	(Blank) White (Std.) *BKC Black * Non-standard finish with extra charge. ** Additional charge & set up fee.

CANOPY FINISH (for pendant)	CEILING TYPE (for pendant)	SUSPENSION LENGTH (for pendant)	LED DRIVER
(Blank) White (Std.) *BC Black Canopy *SC Silver Canopy **CSS Custom Canopy Color (White is Std.) * Non-standard finish with extra charge. ** Additional charge & set up fee.	X1 T-bar ceiling X2 Hard ceiling X3 Sloped Hard ceiling	AC48 Adjustable Aircraft Cable Canopy 48"L AC96 Adjustable Aircraft Cable Canopy 96"L ST24 Stem Canopy 24"L ST48 Stem Canopy 48"L	(Blank) 0-10V dim to 1% (Std.) 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, Dalı 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%) 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) 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 LTEA2W Hi-lume 1% 2-wire LED driver (120V forward phase only) ²⁰ BLT Bluetooth Mesh System (contact factory for more information)

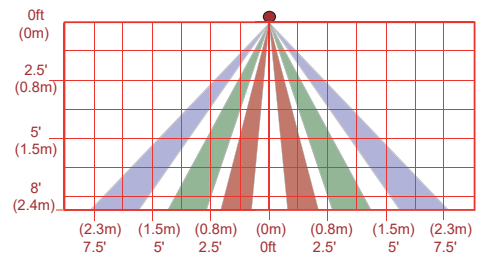
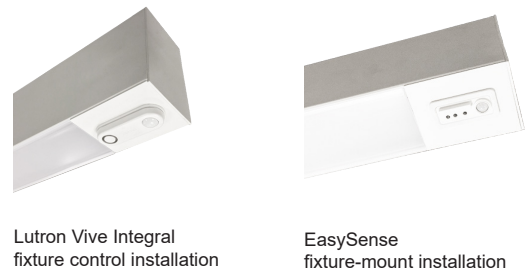
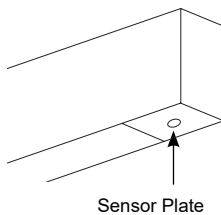
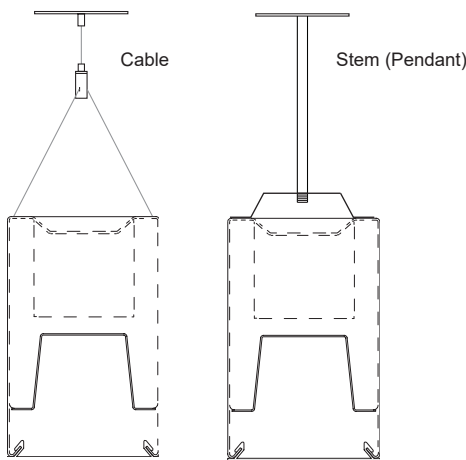
ARCHITECTURAL ACOUSTIC LED LINEAR

OPTIONS		LIGHTING CONTROL SYSTEM		
EMG8	1296 LUMEN EM Battery Backup (CEC Compliant EM) ^{8, 21}	LUTRON VIVE	<Lutron Vive System Enabled>	
EMG15	2430 LUMEN EM Battery Backup (CEC Compliant EM) ^{8, 21}		 Click Here!	
EMG20	3240 LUMEN EM Battery Backup (CEC Compliant EM) ^{8, 21}		<EasySense>	
ELCU-200	Fail-to-on Emergency lighting, UL924 ⁹		SNS200	EasySense Fixture-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) ^{14, 17}
GLR	Fast Blow Fuse ¹⁹		RS-IR	IR dongle v2.0 for EasySense control
GMF	Slow Blow Fuse ¹⁹		<Enlighted>	
ARRA	Assembled in USA for Buy American Act		SU-5E	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) ¹⁵
O7W	Optional 7 Years Limited Warranty ⁵		RS-WS	Enlighted Room controller providing basic control functions of a standard wall switch with preset dimming capability
O10W	Optional 10 Years Limited Warranty ⁵			
AMS	Occupancy Sensor w/ Daylight Harvesting (max. 8' detection mounting height with 13' coverage) ⁶			
DPMS	Daylight Dimming Photo Sensor (0-10 VDC Control), (LSR-301-S required) ²²			
SO	Dimming Wires connected to Sensor Only ⁷			
LSR-301-S	Setup Remote Control for DPMS (Required for DPMS)			
LSR-301-P	Occupant Remote Control for DPMS			

NOTES:

- Specify only when Continuous Row Mount.
- No need to select, if same as row length and section length.
- 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.
- The standard will be ON/OFF sensor with dimming wires provided for dimmer switch. For sensor dimming control, please select additional "SO" option.
- 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.

- 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.
- Cord is available in white or black. (Black is not available for the EM option)
- 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.
- Refer to Advanced Grouping Datasheet for its default setting and compatible wireless switches.
- 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.
- For 3ft configuration, EM can only be remote mounted. Remote box is provided by others.
- Automatic on/off is not available. For automatic on/off, additional occupancy sensor is required or a manual on/off switch can be done.

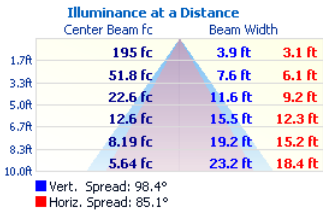


AMS coverage pattern (side view)

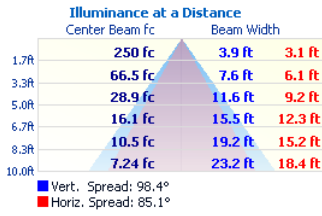
* The coverage shown in the diagram is maximum. AMS is designed to detect small motion when mounted within 6' occupants.

CUBE2-NRC

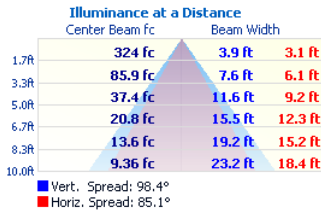
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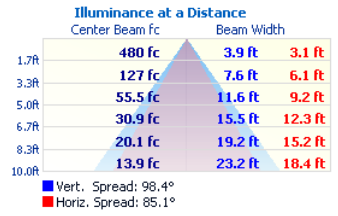
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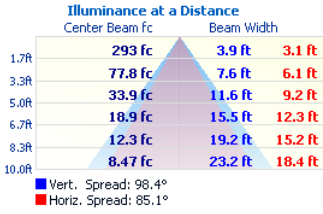
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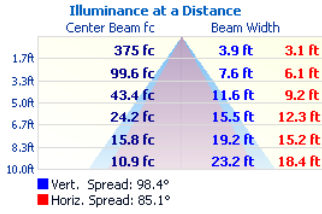
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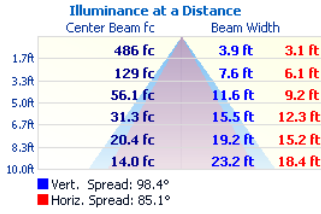
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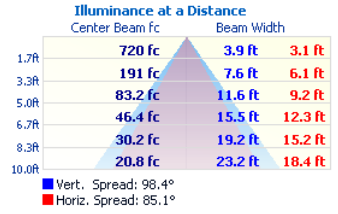
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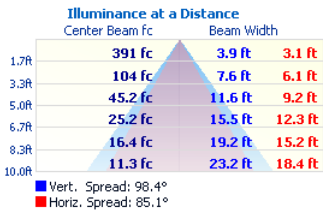
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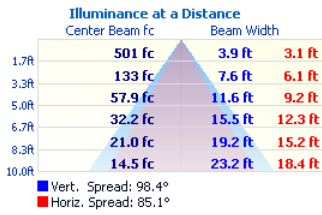
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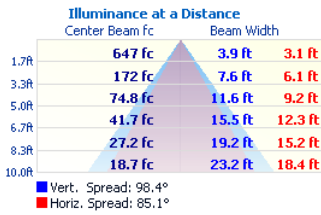
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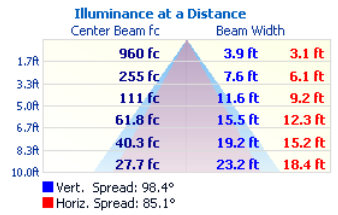
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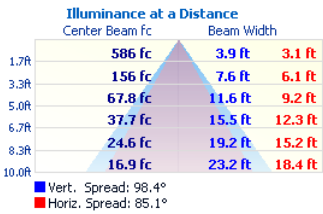
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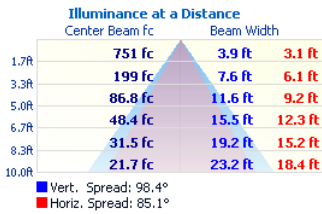
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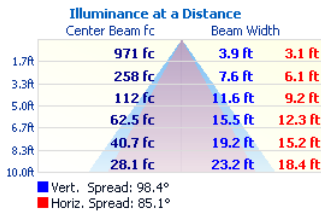
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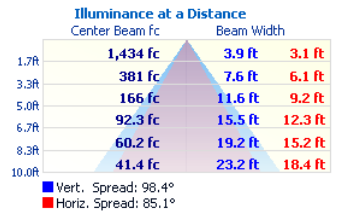
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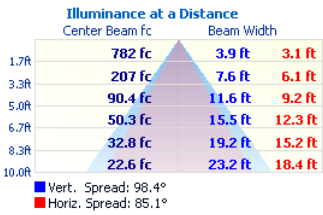
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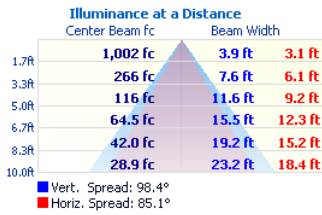
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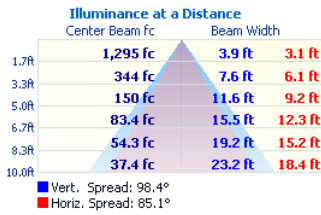
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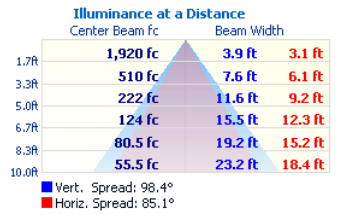
CUBE2-8-27L



CUBE2-8-36L



CUBE2-8-54L



COMPATIBLE DIMMER SWITCH (TABLE 1)

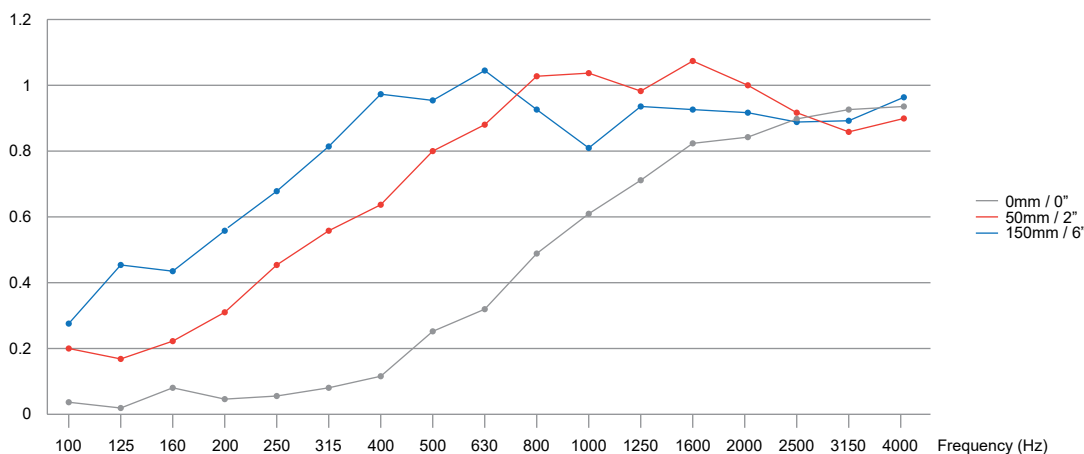
Model #	Brand	Compatible Dimmer Switch	
(Blank)	-	<Leviton>	IP710-LFZ
		<Lutron>	Visit www.lutron.com/advance for a list of dimmers (Mark VII) that will work with this driver.
ES566	eldoLED SOLOdrive	<Busch-Jaeger>	2112U-101
		<Jung>	240-10
		<Leviton>	IllumaTech - IP710-DLX
		<Lightoller Controls>	ZP600FAM120
		<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-TV1 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	<Illumra>	<u>Single Rocker Self-Powered Light Switch (on/off, dim-up/down)</u> Illumra# ZBT-S1AWH Digi-Key# 1082-1033-ND <u>Dual Rocker Self-Powered Light Switch (on/off, dim-up/down, scene1,2)</u> Illumra# ZBT-S2AWH Digi-Key# 1082-1034-ND
TDM	KEYSTONE	<Lutron>	Diva DV-600P, SkyLark S-600P, Maestro MA-600 (Digital)
ELV	ERP	<Lutron>	Nova-NFTV, Diva-DVTV
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.

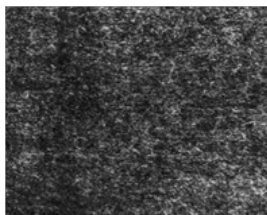
NRC COMPARISON

Frequency/Hz	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	ā	NRC
0mm / 0"	0.03	0.01	0.09	0.04	0.05	0.09	0.12	0.25	0.32	0.49	0.61	0.72	0.82	0.85	0.91	0.94	0.95	0.44	0.45
50mm / 2"	0.20	0.16	0.22	0.32	0.46	0.56	0.63	0.80	0.89	1.03	1.04	0.99	1.07	1.00	0.93	0.87	0.92	0.81	0.80
150mm / 6"	0.29	0.46	0.44	0.57	0.68	0.81	0.97	0.96	0.91	1.04	0.92	0.80	0.94	0.94	0.91	0.90	0.91	0.97	0.90



CUBE2-NRC

<STANDARD>

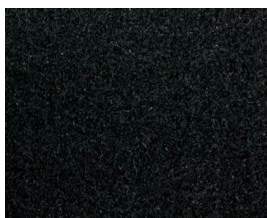


SL: SLATE

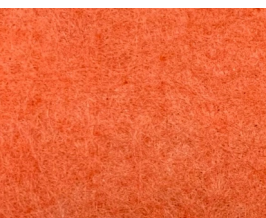


PW: PEWTER

<PREMIUM>



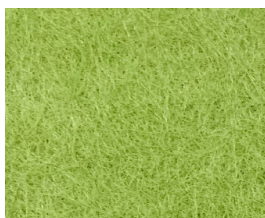
TR: TAR



MD: MANDARIN



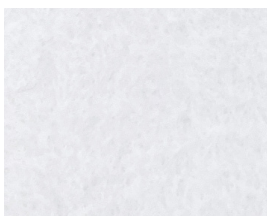
OC: OCHRE



GR: GRASS



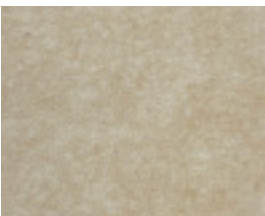
SS: SUNSHINE



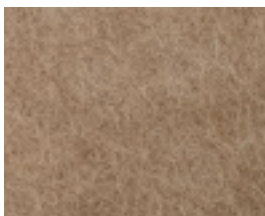
FO: FROST



IV: IVORY



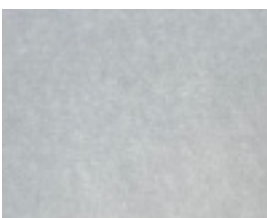
LN: LINEN



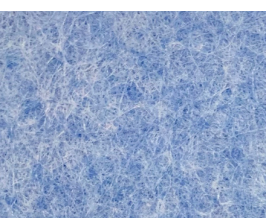
EC: ECRU



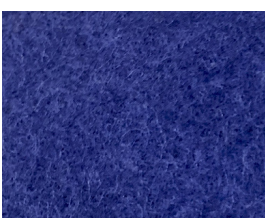
BR: BARK



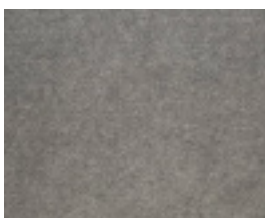
CH: CHAMBARY



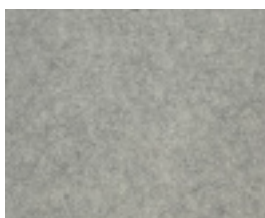
SK: SKY



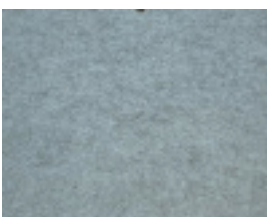
CB: COBALT



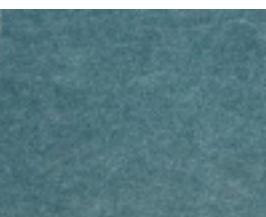
FO: FOSSIL



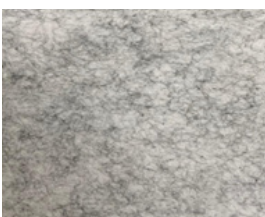
GE: GREIGE



CD: CADET



MC: MALACHITE



SM: SMOKE

1. Standard finish is free of charge.
2. Premium finish with extra charge. Please contact factory for more information.