PROJECT NAME:	TYPE:

- Max output of 990Lm at 80+ CRI
- Available with trimless and zero sightline baffles, featuring $0.5\ensuremath{^{\prime\prime}}$ aperture
- Available for Zero Sightline Millwork
- Available for remodel applications. See separate spec sheet

ORDERING INFORMATION - FIXTURE



SHAPE	RATING	TYPE	BAFFLE & MOUNTING	EXTERIOR FINISH	INTERIOR FINISH	CRI	WATTAGE	ССТ	OPTIC	MEDIA	INSTALL TYPE	CEILING THICKNESS	DRIVER
		F			ВК							1	
ORM 1/2" Round Micro OSM 1/2" Square Micro	1 IP20 Dry/Damp 2 IP64 Wet	F Fixed	T Trimless G Zero Sightline Gypsum M Zero Sightline Millwork	TRIMLESS TG Trimless Gypsum* "Required for trimless gypsum" IREQUIRES gypsum" ZERO SIGHTLINE POWDERCOAT WH White AG Satin Silver AU Cashmere Gold AB Architectural Bronze BB Burnt Bronze BK Black SB Specular Black Black Black SB Specular Black Black SB Specular Black Black SB Specular Black Black Black SB Specular Black Bl	BK Black FINISH IMAGES ON PAGE 2	90S 90+ CRI	11C 11W, 634 Lm 15C 15W, 842 Lm ZERO SIGHTLINE 06C 6W, 423 Lm 11C 11W, 644 Lm 15C 15W, 856 Lm WARM DIM TRIMLESS	24 2400K* **90CRIonly) 27 2700K 30 3000K 35 3500K 40 4000K WL 2700K- 1800K WL 2700K- 1800K WL 2700K- 1800K	20 20° 30 30° 40 40° 40 40°	NL No Lens 01 Clear Film* *(Required for wet location)	INTEGRAL DRIVER IC IC AT IC, Airtight CP CCEA Chicago Plenum REMOTE DRIVER IR IC, Remote AR IC, Airtight, Remote CR CCEA Chicago Plenum, Remote	1 0.50°-1.50°	INTEGRAL / REMOTE PH1 Forward / Reverse Phase, 2%, 120V S63 eldoLED, ECOdrive 1%, 0-10V, LOG, 120V-277V SN3 eldoLED, ECOdrive 1%, 0-10V, LIN, 120V-277V EG1 eldoLED, SOLOdrive 0.1%, 0-10V, LIN, 120V-277V EN1 eldoLED, SOLOdrive 0.1%, 0-10V, LIN, 120V-277V ED1 eldoLED, SOLOdrive 0.1%, DALI-2, LOG, 120V-277V AS1 / Athena Control eldoLED, SOLOdrive 0.1%, 120V-277V* *(Includes Athena Node. Extended lead time, consult factory. ASR includes remote shunt) CS1 / Casambi Control eldoLED, SOLOdrive 0.1%, 120V-277V* *(Includes Casambi Node. Extended lead time, consult factory. CSR includes remote shunt) REMOTE LP1 Lutron, Hi-Lume Premier Ecosystem 0.1% Fade to Black, 120V or 277V HUB Distributed Power System, Powers up to 6 Fixtures* *(Requires further specification on page 2)

PART NUMBER NOTES

- Fixture ships as e.g., 0RM1FTTGAUBK90S15C3540NLIC1SG3 Housing, driver, trim, and applique ship as one unit





ACCESSORIES

CONFIGURATION - REQUIRED FOR 'HUB' DRIVER SPECIFICATION

ASSEMBLY	QTY	WATTAGE	REMOTE DRIVER
HUB			
DISTRIBUTED POWER HUB	2X 2 Fixtures	06W 6 Watts	PH1 Forward /Reverse Phase, 2%, 120V
FUWER HUD	3X 3 Fixtures	11W 11 Watts	SG5 eldoLED, ECOdrive 1%, 0-10V, LOG, 120V-277V
	4X 4 Fixtures	15W 15 Watts	SN5 eldoLED, ECOdrive 1%, 0-10V, LIN, 120V-277V
	5X 5 Fixtures		EG1 eldoLED, SOLOdrive 0.1% 0-10V, LOG, 120V-277V
	6X 6 Fixtures	6 Fixtures	EN1 eldoLED, SOLOdrive 0.1% 0-10V, LIN, 120V-277V
			ED1 eldoLED, SOLOdrive 0.1% DALI-2, LOG, 120V-277V
			AS1/ASR Athena Control, eldoLED, SOLOdrive, 0.1%, 120V-277V* *(Includes Athena Node. Extended lead time, consult factory. ASR includes remote shunt)
			CS1/CSR Casambi Control eldoLED, SOLOdrive, 0.1%, 120V-277V* *(Includes Casambi Node. Extended lead time, consult factory. CSR includes remote shunt)
			LP1 Lutron, Hi-Lume Premier Ecosystem 0.1% Fade to Black,120V or 277V

COMPATIBILITY BY DRIVER TYPE AND QUANTITY

DRIVER	H	HUB2X		HUB3X		HUB4X		HUB5X			HUB6X				
DRIVER	06W	11W	15W	06W	11W	15W	06V	11W	15W	06W	11W	15W	06W	11W	15W
PH	~	•	~	~	~	~	-	~	🗸	~	~		~		
SG/SN	•	~	~	~	•	~	~	~	~	~	~	<	~	~	•
EG/EN/ED	<	•	~	~	•	~	~	~	~	•	~	<	•	•	
AS/CS	>	•	•	~	•	~	~	~	~	~	•	(~	~	
LP1	~	~	~	•	~	•	~	~		•			~		

PART NUMBER NOTES

- Configuration e.g.HUB2X15WPH1, ordered as separate line item
- HUB ships as e.g., HUB2X15WPH1

ACCESSORIES

REPLACEMENT OPTICS

Interchangeable optics accessible through fixture aperture.

□ R0-17-20 20° optic □ R0-17-30 30° optic □ R0-17-40 40° optic

REPLACEMENT BAFFLE ASSEMBLY (INCLUDES MEDIA)

ASSEMBLY	SHAPE	RATING	TYPE	BAFFLE	EXTERIOR FINISH	INTERIOR FINISH	MEDIA
RBA			F			BK	
		1 IP20 Dry/Damp 2 IP64 Wet* * (Baffle removal tool provided for aim and focus)	1 med	Sightline M Trimless Millwork	TG Trimless Gypsum WH White AG Satin Silver AU Cashmere Gold AB Arch. Bronze BB Burnt Bronze BK Black PR Primer CF Custom Finish *(Consult Factory) *See page 1 for Alumina finish options		NL No Lens 01 Clear Glass Lens

POWDERCOAT FINISHES



ALUMINA FINISHES BY LUCIFER LIGHTING™

(01)	(03)	(05)	(07)	(09)
Brushed	Brushed Dark	Brushed Aged	Brushed	Brushed Light
Obsidian	Patinated Bronze	Aluminum	Cast Brass	Patinated Bronze
(02)	(04)	(06)	(08)	(10)
Matte	Matte Dark	Matte Aged	Matte	Matte Light
Obsidian	Patinated Bronze	Aluminum	Cast Brass	Patinated Bronze

REPLACEMENT INSTALLATION TOOLS

One included with every six fixtures designated Wet location.

□ **01S-T00L-BAFFLE-REMOVAL** Allows for baffle removal with Wet location

 $\hfill \square$ 01S-T00L-ENGINE-INST-REMOVAL $\,$ Allows for installation of LED module

 \square 01S-T00L-ENGINE-BAFFLE-COMB0 Includes both baffle removal tool and LED installation tool

HANGER BAR EXTENDER KIT

Extends hanger bars from 24.0" to 46.0" maximum.

□ FRX-HBE-46 Extender, Hanger Bar

EMERGENCY LIGHTING - REMOTE MOUNT ONLY

During disruption of main power, emergency battery inverter provides temporary 120V or 277V to fixture.

□ EMB-S-25-120/277-LEDX
 □ EMB-S-100-120-LEDX
 25 watt max capacity, 120 or 277 VAC 60Hz, Non-Dimmable
 100 watt max capacity, 120 VAC 60Hz, 0-10V Dimmable

□ EMB-S-250-120/277-LEDX 250 watt max capacity, 120 or 277 VAC 60Hz, 0-10V Dimmable *SHUNT REQUIRED FOR USE WITH ATHENA AND CASAMBI CONTROLS, CONSULT FACTORY FOR DETAILS.

PERFORMANCE -TRIMLESS - 3000K - NO LENS

LUMEN	WATTS	20° (PTIC	30° (PTIC	40° OPTIC	
PACKAGE		DLVD	LPW	DLVD	LPW	DLVD	LPW
80S06C	6	215	36	389	65	481	80
80S11C	11	327	30	592	54	733	67
80S15C	15	435	29	787	52	974	65
90S06C	6	186	31	336	56	416	69
90S11C	11	283	26	512	47	634	58
90S15C	15	376	25	680	45	845	56
95S06C	6	134	22	242	40	299	50
95S11C	11	203	18	368	33	455	41
95S15C	15	270	18	489	33	605	40
90L11DL (27K-18K)	11	-	-	-	-	373	34
90L11DD (30K-18K)	11	-	-	-	-	493	33
90L15DL (27K-18K)	15	-	-	-	-	395	36
90L15DD (30K-18K)	15	-	-	-	-	525	35

OUTPUT MULTIPLIER

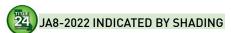
CCT	CCT SCALE
2400K	0.89
2700K	0.98
3000K	1.00
3500K	1.09
4000K	1.14

MEDIA LIGHT LOSS MULTIPLIER

MEDIA	LIGHT LOSS FACTOR
NO LENS	1.00
LENS	0.93

FINISH MULTIPLIER

CCT	CCT SCALE			
WHITE	1.00			
BLACK	0.98			
SPECULAR BLACK	0.98			



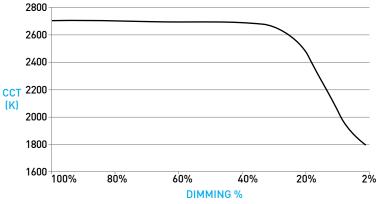
WARM DIM PERFORMANCE - NO LENS - 40° OPTIC

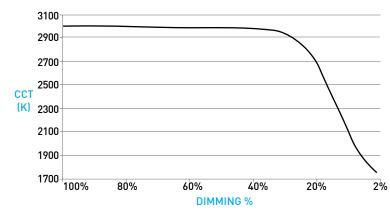
INCANDESCENT PROFILE - TRIMLESS

90L11DL 2700K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	2700K	2700K	2700K	2700K	2500K	1900K	1800K
Light Output (Lm)	373	298	261	187	75	37	7
Power (W)	11	8.8	7.7	5.5	2.2	1.1	0.2
Efficacy (LPW)	34	34	34	34	34	34	34
90L15DL	F 11	Dimmed	Dimmed	D'	D'	Dimmed	D'
2700K - 1800K	Full on 100%	to 80%	to 70%	Dimmed to 50%	Dimmed to 20%	to 10%	Dimmed to 2%
2700K - 1800K	100%	to 80%	to 70%	to 50%	to 20%	to 10%	to 2%
2700K - 1800K CCT (K)	100% 2700K	to 80% 2700K	to 70% 2700K	to 50% 2700K	to 20% 2500K	to 10% 1900K	to 2% 1800K

HALOGEN PROFILE - TRIMLESS

90L11DD 3000K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	3000K	3000K	3000K	3000K	3000K	2000K	1800K
Light Output (Lm)	493	394	345	247	99	49	10
Power (W)	11	8.8	7.7	5.5	2.2	1.1	0.2
Efficacy (LPW)	33	33	33	33	33	33	33
90L15DD 3000K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	3000K	3000K	3000K	3000K	3000K	2000K	1800K
Light Output (Lm)	525	420	368	263	105	53	11
Power (W)	15	12	10.5	7.5	3	1.5	0.3
Efficacy (LPW)	35	35	35	35	35	35	35





NOTE: LIN-TO-LIN 0-10V PAIRING NOT COMPATIBLE WITH WARM DIM.



PERFORMANCE -ZERO SIGHTLINE - 3000K - NO LENS

LUMEN	WATTS		20° OPTIC		PTIC	40° OPTIC		
PACKAGE		DLVD	LPW	DLVD	LPW	DLVD	LPW	
80S06C	6	234	39	407	68	490	82	
80S11C	11	357	32	620	56	745	68	
80S15C	15	474	32	824	55	990	66	
90S06C	6	203	34	352	59	423	71	
90S11C	11	309	28	536	49	644	59	
90S15C	15	410	27	712	47	856	57	
95S06C	6	146	24	253	42	304	51	
95S11C	11	222	20	385	35	463	42	
95S15C	15	295	20	512	34	615	41	
90L11DL (27K-18K)	11	-	-	-	-	384	37	
90L11DD (30K-18K)	11	-	-	-	-	406	37	
90L15DL (27K-18K)	15	-	-	-	-	508	34	
90L15DD (30K-18K)	15	-	-	-	-	540	36	

OUTPUT MULTIPLIER

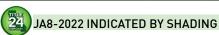
CCT	CCT SCALE
2400K	0.89
2700K	0.98
3000K	1.00
3500K	1.09
4000K	1.14

MEDIA LIGHT LOSS MULTIPLIER

MEDIA	LIGHT LOSS FACTOR
NO LENS	1.00
LENS	0.93

FINISH MULTIPLIER

CCT	CCT SCALE		
WHITE	1.00		
BLACK	0.98		
SPECULAR BLACK	0.98		



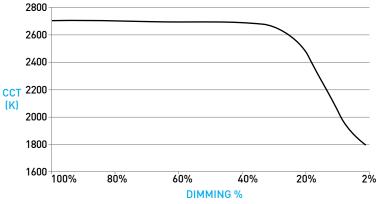
WARM DIM PERFORMANCE - NO LENS - 40° OPTIC

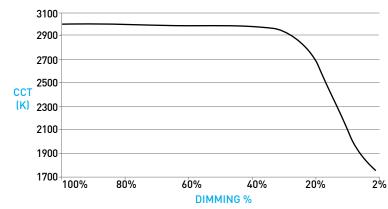
INCANDESCENT PROFILE - ZERO SIGHTLINE

90L11DL 2700K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	2700K	2700K	2700K	2700K	2200K	1900K	1800K
Light Output (Lm)	384	307	269	192	77	38	8
Power (W)	11	8.8	7.7	5.5	2.2	1.1	0.2
Efficacy (LPW)	37	37	37	37	37	37	37
90L15DL 3000K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	2700K	2700K	2700K	2700K	2450K	1900K	1800K
Light Output (Lm)	508	406	356	254	102	51	10
Power (W)	15	12	10.5	7.5	3	1.5	0.3
Efficacy (LPW)	37	37	37	37	37	37	37

HALOGEN PROFILE - ZERO SIGHTLINE







NOTE: LIN-TO-LIN 0-10V PAIRING NOT COMPATIBLE WITH WARM DIM.



DOWNLIGHT / HOUSING

A IC HOUSING

- For IC ceilings, also suitable for NC applications.
- No setback from polycell spray foam insulation having max R-Value of 60 on all sides and top of housing.
- Pre-installed collar accommodates ceiling thicknesses up to 1.50". Requires 3.125" ceiling cutout.

B LIGHT ENGINE

Robust light engine with optimized optic pairing integrates Reflection, Refraction, and TIR offering 20° , 30° , and 40° beams.

TRIMLESS MILLWORK / ZERO SIGHTLINE MILLWORK SPACERS & MOUNTING ADAPTOR

Provided for Trimless Millwork (Type "M") installations; includes (1) 1/16" spacer and (5) 1/8" spacers.

- D ZERO-SIGHTLINE / TRIMLESS DRYWALL PROFILE Installs totally flush with the ceiling with no visible trim. Appliqué includes screws for mounting and has 0.06" plaster stop. Not recommended for stucco applications.
- ZERO-SIGHTLINE FACEPLATE / BAFFLE CNC-Milled removable baffle provides 64° glare cutoff. Minimizes aperture glare and conceals view into housing; includes gasket. Exterior faceplate available in powdercoat finishes; interior finish is black powdercoat.

F TRIMLESS BAFFLE

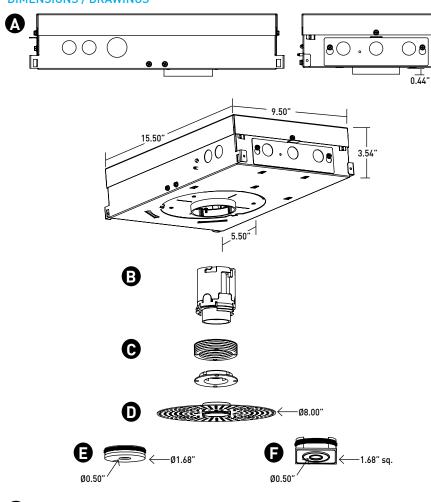
CNC-Milled baffle provides 61° glare cutoff. Minimizes aperture glare and conceals view into housing; includes gasket. Baffle shape is square for both round and square apertures. Only 0.5" inner aperture is visible after mudin. 1.7" square ceiling break required for LED/driver servicing.

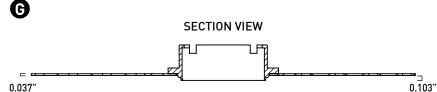
G APPLIQUÉ DETAIL
Appliqué for plaster floating directly to baffle.

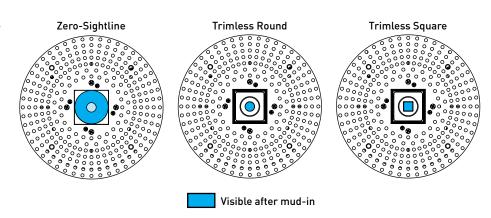
HOUSING NOTES

- Power supply compartment and all splice connections may be serviced from room side.
- Consult factory for spacing requirements for any installations exceeding R-Value 60.
- Hanger bars extend from 14.0" to 24.0", but may be field cut to accommodate narrow stud spacing. Can be extended up to 46" maximum with FRX-HBE-46 kit.
- Hanger bars and brackets add 4.00" max to the overall dimension, but are exclusive of the setback requirements.
- Housings for round and square trims feature a round aperture housing collar that rotates up to 90 degrees for square fixture alignment. Housing collars accommodate ceiling thicknesses between 0.50" and 1.50".

DIMENSIONS / DRAWINGS







reserves the right to change or withdraw specifications without prior notice.

DOWNLIGHT / HOUSING

TRIMLESS MILLWORK

Installs totally flush with the ceiling with no visible trim. Requires the spacers and adaptor specified with "M" installation type.

REMOTE POWER SUPPLY

Provided with install Types "IR", "NR", "AR" and "CR". Remote power supply provides additional driver options. See page 7 for maximum allowable secondary run lengths between PS-RMT and fixture. Must be installed in an accessible location.

ATHENA / CASAMBI CONTROL

Controls integrated Remote driver assembly. All equipment is serviceable.

Athena Model Numbers: A-WN-D01-RF-BL & DFC-0EM-DBI

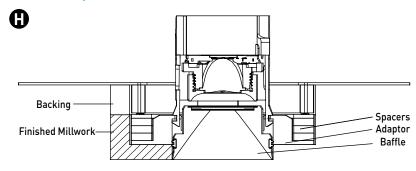
Casambi Model Number: BT-S1E1-5400

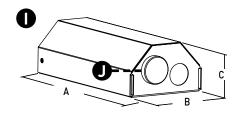
ATHENA / CASAMBI EM SHUNT

Inlcuded with drivers specified as ASR, ADR, CSR, or CDR. One required for each wireless EM fixture, requires class 2 control wiring between fixture and shunt. Features integrated test switch.

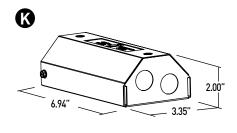
Model Number: PS-RMT-SHUNT

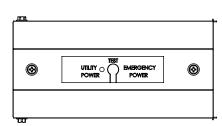
DIMENSIONS / DRAWINGS





	Α	В	С
PHASE / 0-10V / DALI / ECOSYSTEM	6.94"	3.35"	2.00"
ATHENA / CASAMBI	8.10"	5.00"	2.00"





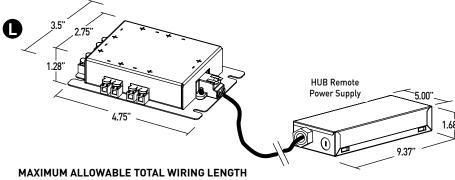
DISTRIBUTED POWER ACCESSORY

HUB

Inlcuded with "HUB" driver selection. Allows for multi-fixture power distribution from one remote power supply to a maximum of 6 fixtures. Connectable fixture quantity is specified in fixture part number on page 2. Hub base plate allows for structural mounting and wiring during roughin. Wiring distances for HUB based on quantity featured in figure K.

Model Number e.g.: HUB2X15WPH1

DIMENSIONS / DRAWINGS



DRIVER-TO- HUB AWG	HUB-TO- FIXTURE AWG	TOTAL LENGTH			
18	18	150'			
16	16	200'			
14	14	250'			
12	18	400'*			
12	16	450'*			
12 14 500'*					
*Total length requires 250' 12AWG					

TECHNICAL

CONSTRUCTION

Downlight: Painted finishes are granulated powder coat; Alumina finishes are anodized aluminum. Plated finishes are plated.

Housing: Aluminum and 22 Gauge galvanized steel. Forged aluminum heat-sink. Remote Power Supply: 22 Gauge galvanized steel.

Appliqué: Aluminum base with 22 Gauge galvanized steel flange.

STATIC WHITE LED

2-step MacAdam ellipse LED module available in 80+, 90+ and 95+ CRI configurations in color temperatures of 2700K, 3000K, 3500K and 4000K. 3-step MacAdam ellipse LED module available in 90+ CRI configuration in color temprtature of 2400K. Average rated lamp life: 50,000 hours. LED and driver assemblies are field-replaceable.

WARM DIM LED

3-step MacAdam ellipse warm dim LED module available in 90+ CRI configuration 3000K or 2700K at full brightness, warming to 1800K at full dim. Average rated lamp life of 50,000 hours. LED and driver assemblies are field-replaceable.

POWER SUPPLY PERFORMANCE AND DIMMING INFORMATION

	PHASE		0-10V			EC0	DALI-2	ATHENA		CASAMBI	
Power Supply	PH1	SG3	SN3	EG1	EN1	LP1	ED1	AS1	AD1	CS1	CD1
Minimum °C	-20 °C	-20 °C	-20°C	-20 °C	-20 °C	0°C	-20 °C	0°C	0°C	- 20°C	- 20°C
Maximum °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40°C	40 °C
Dimming %	2.0%	1.0%	1.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Note: For LP1, EG1 and EN1 drivers consult chart on page 8 to confirm appropriate dimming curve for compatibility with selected control.

MAXIMUM ALLOWABLE REMOTE DRIVER WIRING DISTANCES

	WIRE AWG				
DRIVER	12	14	16	18	20
PH1	285'	180'	113'	71'	45'
LP1	60'	40'	25'	15'	-
EG1, EN1, ED1, SG3, SN3, AS1, CS1, AD1, CD1	-	-	118'	72	46'

LISTING

UL1598 standard for Dry / Damp IP20 and IP64 Wet locations. CCEA, Airtight, and Title 24 JA8-2022 Listing.

NEMA 410 Compliant.

DECLARE

LBC Red List Approved.

BUY AMERICAN ACT

Buy American Act compliant.

WFIGHT

Housing with Integral Driver - 7 lbs max Remote Driver - 1.4 lbs

HUB - 0.73 lbs

LIMITED WARRANTY

Manufacturer's Limited Warranty guarantees product(s) listed to be free from defects in material and workmanship under normal use and service for 1-year. LED and power supplies are warranted to operate with 70% of original flux and remain within a range of 3 duv for a period of 5-years. 10-year Lutron Advantage limited warranty available on Lutron equipped systems. Warranty period begins from the date of shipment by Seller. Consult website for full warranty terms and conditions.

CHANGE LOG

1. 05/06/2025: ADDED WARM DIM AND DISTRIBUTED POWER PRODUCT **OFFERINGS**





reserves the right to change or withdraw specifications without prior notice.

DIMMING COMPATIBILITY

LUTRON DRIVER COMPATIBILITY

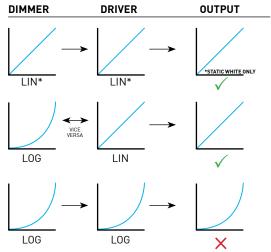
Power supply LP1 Lutron Product Family	Part No.
PowPak Dimming Modules	RMJ-EC032-DV-B
PowPak Dimming Modules	FCJ/FCJS-EC0
Energi Savr Nodes	QSN-1ECO-S
GRAFIK Eye QS control unit Homeworks QS control unit	QSN-2ECO-S
GRAFIK Eye QS control unit Homeworks QS control unit	QSGRJE (wireless) QSGRE
Quantum Hub	QP22C
Quantum Hub	QP24C
Quantum Hub	QP26C
Quantum Hub	QP28C
Homeworks QS power module myRoom Plus power module	LQSE-2ECO-D



eldoLED DRIVER COMPATIBILITY

Power supply EG1 Manufacturer	Family/Model #
Busch-Jaeger	2112U-101
Jung	240-10
Leviton Lighting Controls	IP710-DLX
Lightolier Controls	ZP600FAM120
Merten	5729
Pass & Seymour	CD4FB-W
The Watt Stopper	DCLV1
Synergy	ISD BC
Crestron®	GLX-DIMFLV8
Crestron®	GLXP-DIMFLV8
Crestron®	GLPAC-DIMFLV4-*
Crestron®	GLPAC-DIMFLV8-*
Crestron®	GLPP-DIMFLVEX-PM
Crestron®	GLPP-1DIMFLV2EX-PM
Crestron®	GLPP-1DIMFLV3EX-PM
Crestron®	DIN-A08
Crestron®	DIN-4DIMFLV4
Crestron®	CLS-EXP-DIMFLV
Crestron®	CLCI-1DIMFLV2EX
Power supply EN1 Manufacturer	Family/Model #
Lutron Electronics	Nova T® - NTFTV
Lutron Electronics	Diva® - DVTV
Lutron Electronics	Nova® - NFTV
Lutron Electronics	GrafixEye® GRX-TVI w GRX3503
Lutron Electronics	Energy Savr Node™ - QSN-4T16-S
Lutron Electronics	TVM2 Module
Sensor Switch	nIO EZ
ABB	SD/S 2.16.1

ANALOG DRIVERS AND DIMMERS



LIN = LINEAR LOG = LOGARITHMIC

*LIN-TO-LIN NOT COMPATIBLE FOR WARM-DIM