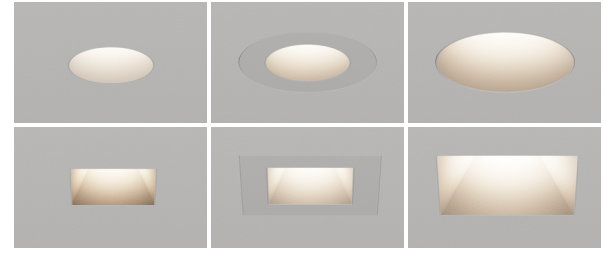


# 1 SERIES FIXED

- Max output of 971lm at 80+ CRI
- Available with trimless and zero sightline baffles, featuring 1" and 1.6" apertures
- Expanded baffles feature UGR value of <7
- Available for Zero Sightline Millwork
- Available for remodel applications. See separate spec sheet
- Shipping October 2024, Patent pending

PROJECT NAME:	TYPE:
---------------	-------



## ORDERING INFORMATION - FIXTURE



JA8-2022 COMPLIANCE INDICATED BY SHADING

TRIM	RATING	TYPE	BAFFLE & MOUNTING	EXTERIOR FINISH	INTERIOR FINISH	CRI	WATTAGE	CCT	OPTIC (UGR)	MEDIA	INSTALL TYPE	CEILING THICKNESS	DRIVER
		<b>F</b>										<b>1</b>	
IRP ISP IRE ISE	1 IP20 Dry/Damp 2 IP64 Wet	Fixed	T Trimless	<b>TRIMLESS</b> TG Trimless Gypsum* *Required for "T" baffle TM Trimless Millwork* * (IRE/ISE only. Required for trimless millwork)	<b>POWDERCOAT</b> WH White AG Satin Silver AU Cashmere Gold AB Architectural Bronze BB Burnt Bronze BK Black SB Specular Black PR Primer CF Custom Finish* * (Consult Factory)	<b>STATIC WHITE</b> 80S 80+ CRI 90S 90+ CRI 95S 95+ CRI	06C 6W, 428 lm 11C 11W, 672 lm 15C 15W, 839 lm	24 2400K* * (90 CRI only) 27 2700K 30 3000K 35 3500K 40 4000K	20 20° (<13) 30 30° (<13) 40 40° (<10)	NL No Lens 01 Clear Film* * (Required for wet location)	<b>INTEGRAL DRIVER</b> IC IC AT IC, Airtight CP CCEA Chicago Plenum <b>REMOTE DRIVER</b> IR IC, Remote AR IC, Airtight, Remote CR CCEA Chicago Plenum, Remote	1 0.50" - 1.50"	<b>INTEGRAL / REMOTE</b> PH1 Forward / Reverse Phase, 2%, 120V SG1 eldoLED, ECOdrive 1%, 0-10V, LOG, 120V-277V SN1 eldoLED, ECOdrive 1%, 0-10V, LIN, 120V-277V EG1 eldoLED, SOLOdrive 0.1% 0-10V, LOG, 120V-277V 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 shunt) CS1 / CSR Casambi Control eldoLED, SOLOdrive 0.1%, 120V-277V* * (Includes Casambi Node. Extended lead time, consult factory. CSR includes shunt) <b>REMOTE</b> LP1 Lutron, Hi-Lume Premier Ecosystem 0.1% Fade to Black, 120V or 277V
			G Zero Sightline Gypsum* * (1IRP/1SP only) M Zero Sightline Millwork* * (1IRP/1SP only)	<b>ZERO SIGHTLINE</b> <b>POWDERCOAT</b> WH White AG Satin Silver AU Cashmere Gold AB Architectural Bronze BB Burnt Bronze BK Black SB Specular Black PR Primer CF Custom Finish* * (Consult Factory) <b>PLATED</b> CH Chrome IG Industrial Gray MB Matte Bronze PB Polished Bronze SS Stainless Steel <b>ALUMINA</b> 01 Brushed Obsidian 02 Matte Obsidian 03 Brushed Dark Patinated Bronze 04 Matte Dark Patinated Bronze 05 Brushed Aged Aluminum 06 Matte Aged Aluminum 07 Brushed Cast Brass 08 Matte Cast Brass 09 Brushed Light Patinated Bronze 10 Matte Light Patinated Bronze	<b>WARM DIM</b> 90W 90+ CRI	15D 15W, 613m	WD 3000K-1800K						DELIVERED LUMEN OUTPUTS AND T24 COMPLIANCE REFLECT 3000K, 40° OPTIC, AND NO LENS.
													FINISH IMAGES ON PAGE 2

### PART NUMBER NOTES

- Fixture ships as e.g., 1RE2FTTGAU90S15C3540NLIC1SG1
- Housing, driver, trim, and applique ship as one unit



# 1 SERIES FIXED

## ACCESSORIES

### REPLACEMENT OPTICS

Interchangeable optics accessible through fixture aperture.

- RO-17-20** 20° optic
- RO-17-30** 30° optic
- RO-17-40** 40° optic

### REPLACEMENT BAFFLE ASSEMBLY (INCLUDES MEDIA)

ASSEMBLY	SHAPE	RATING	TYPE	BAFFLE	EXTERIOR FINISH	INTERIOR FINISH	MEDIA
<b>RBA</b>			<b>F</b>				
REPLACEMENT BAFFLE ASSEMBLY	1RP Round 1SP Square 1RE Round Expanded 1SE Square Expanded	1 IP20 Dry/Damp 2 IP64 Wet* *(Suction cup provided for aim and focus)	Fixed	T Trimless* (Required for 1RE/1SE) G Zero Sightline* (1RP/1SP Only) M Trimless Millwork* (1RP/1SP Only)	TG Trimless Gypsum TM Trimless Millwork 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 plated and Alumina finish options	WH White AG Satin Silver AU Cashmere Gold 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

### REPLACEMENT INSTALLATION TOOLS

One included with every six fixtures designated Wet location.

- 01S-TOOL-BAFFLE-REMOVAL** Allows for removal of baffle with Wet location
- 01S-TOOL-ENGINE-INST-REMOVAL** Allows for installation of LED module
- 01S-TOOL-ENGINE-BAFFLE-COMBO** Includes both baffle removal tool and LED module installation tool.

### HANGER BAR EXTENDER KIT

Extends hanger bars from 24.0" to 46.0" maximum.

- FRX-HBE-46** Extender, Hanger Bar

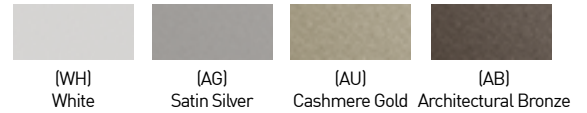
### EMERGENCY LIGHTING - REMOTE MOUNT ONLY

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

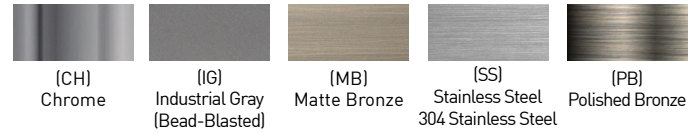
- EMB-S-25-120/277-LEDX** 25 watt max capacity, 120 or 277 VAC 60Hz, Non-Dimmable
- EMB-S-100-120-LEDX** 100 watt max capacity, 120 VAC 60Hz, 0-10V Dimmable
- EMB-S-100-277-LEDX** 100 watt max capacity, 277 VAC 60Hz, 0-10V Dimmable
- EMB-S-250-120/277-LEDX** 250 watt max capacity, 120 or 277 VAC 60Hz, 0-10V Dimmable

**\*SHUNT REQUIRED FOR USE WITH ATHENA AND CASAMBI CONTROLS, CONSULT FACTORY FOR DETAILS.**

## POWDERCOAT FINISHES



## PLATED FINISHES



## ALUMINA FINISHES BY LUCIFER LIGHTING™



# 1 SERIES FIXED

## 1RP PERFORMANCE - 3000K - NO LENS

LUMEN PACKAGE	WATTS	20° OPTIC		30° OPTIC		40° OPTIC	
		DLVD	LPW	DLVD	LPW	DLVD	LPW
80S06C	6	243	40	381	63	476	79
80S11C	11	371	33	583	52	728	66
80S15C	15	495	33	776	51	971	64
90S06C	6	210	34	329	54	411	68
90S11C	11	321	29	504	45	629	57
90S15C	15	428	28	672	45	839	55
95S06C	6	151	25	236	39	295	49
95S11C	11	230	20	362	32	452	41
95S15C	15	307	20	483	32	602	40
90W15D	15	327	21	441	29	613	40

UNIFIED GLARE RATING		
20° OPTIC	30° OPTIC	40° OPTIC
<13	<13	<10

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

## 1RE PERFORMANCE - 3000K - NO LENS

LUMEN PACKAGE	WATTS	20° OPTIC		30° OPTIC		40° OPTIC	
		DLVD	LPW	DLVD	LPW	DLVD	LPW
80S06C	6	249	41	389	64	476	79
80S11C	11	382	34	596	54	728	66
80S15C	15	509	33	795	52	971	64
90S06C	6	216	35	337	56	411	68
90S11C	11	330	30	515	46	629	57
90S15C	15	440	29	687	45	839	55
95S06C	6	155	25	242	40	295	49
95S11C	11	237	21	370	33	452	41
95S15C	15	346	21	493	32	602	40
90W15D	15	321	21	465	31	537	35

UNIFIED GLARE RATING		
20° OPTIC	30° OPTIC	40° OPTIC
<7	<7	<7



JA8-2022 INDICATED BY SHADING

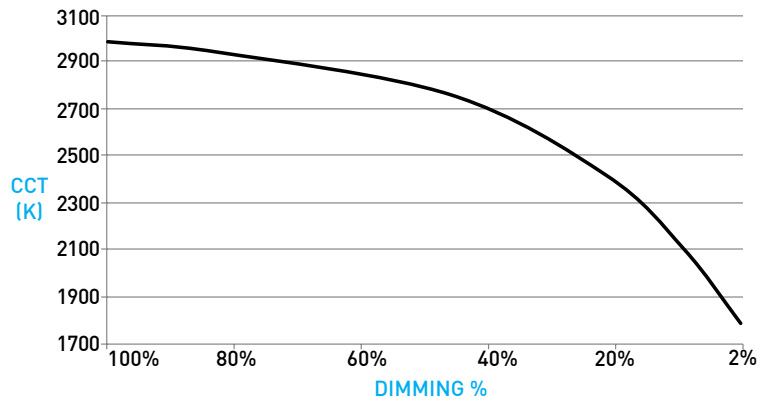
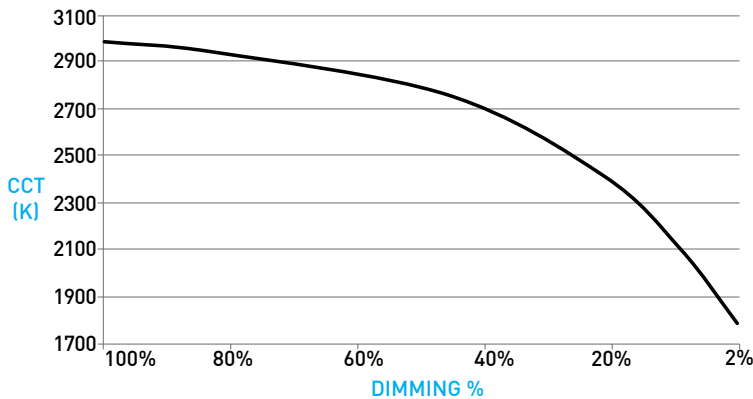
## WARM DIM PERFORMANCE - NO LENS - 40° OPTIC

1RP HALOGEN DIMMING PROFILE

90W15CWD 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)	3000	2950	2920	2775	2375	2000	1800
Light Output (Lm)	613	490	429	307	123	62	12
Power (W)	15	12	11	8	3	1.5	0.3
Efficacy (LPW)	40	40	40	40	40	40	40

1RE HALOGEN DIMMING PROFILE

90W15CWD 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)	3000	2950	2920	2775	2375	2000	1800
Light Output (Lm)	537	430	376	269	107	54	11
Power (W)	15	12	11	8	3	1.5	0.3
Efficacy (LPW)	35	35	35	35	35	35	35



# 1 SERIES FIXED

## 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.

### B LIGHT ENGINE

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

### C 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.

### E 1" ZERO-SIGHTLINE / TRIMLESS BAFFLE

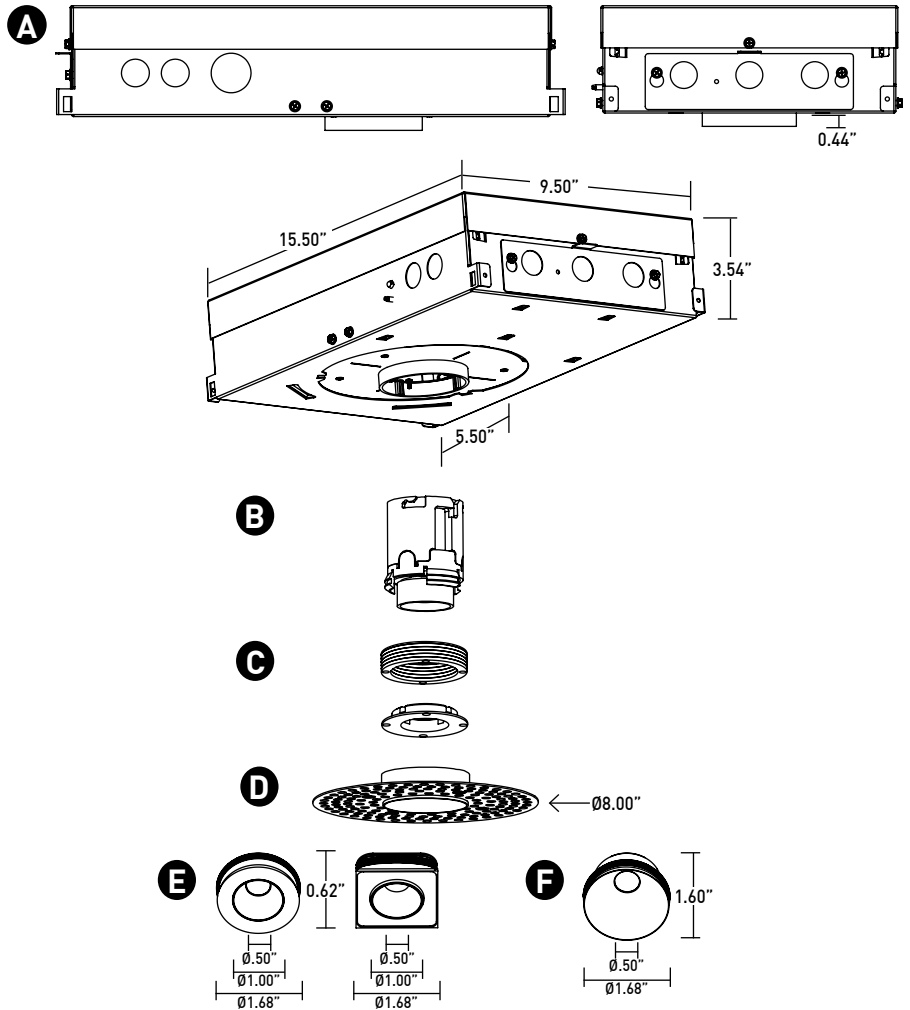
CNC-Milled removable baffle provides 45° glare cutoff. Minimizes aperture glare and conceals view into housing; includes gasket. Exterior faceplate available in powdercoat, plated, and alumina finishes; interior finish available in powdercoat and alumina finishes. Available in zero-sightline and trimless profiles.

**Trimless baffle requires 1.7" square ceiling break for LED/driver servicing.**

### F 1.6" EXPANDED BAFFLE

CNC-Milled removable baffle provides 46° glare cutoff. Minimizes aperture glare and conceals view into housing; includes gasket. No exterior finish, interior finish available in powdercoat and alumina finishes. Available in trimless profile only.

## DIMENSIONS / DRAWINGS



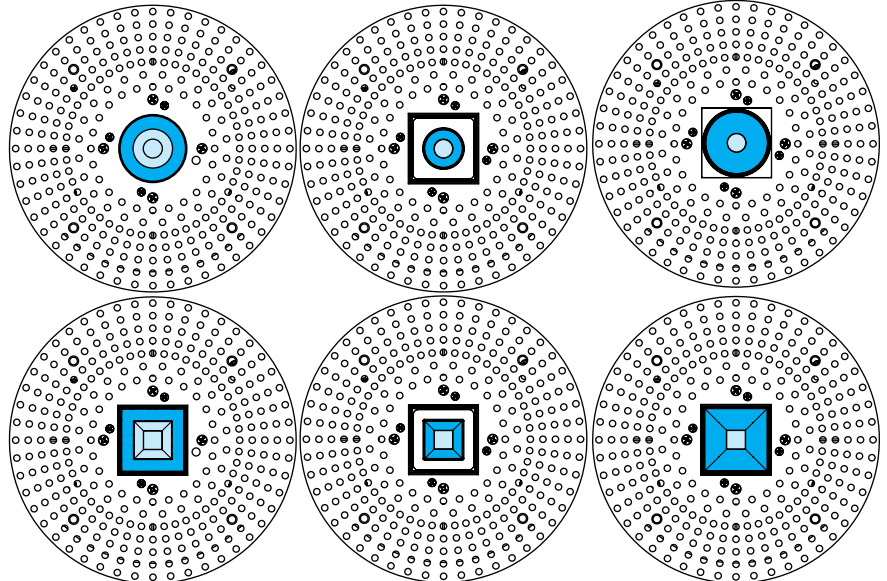
1" Zero Sightline


1" Trimless

1.6" Expanded Trimless

Round

Square



 Visible after mud-in

## HOUSING NOTES

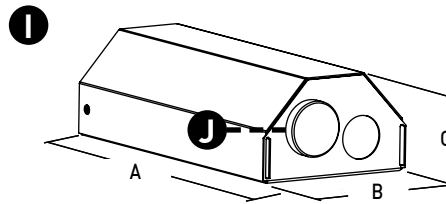
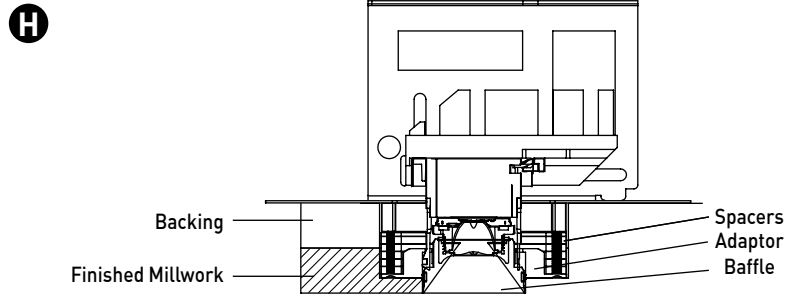
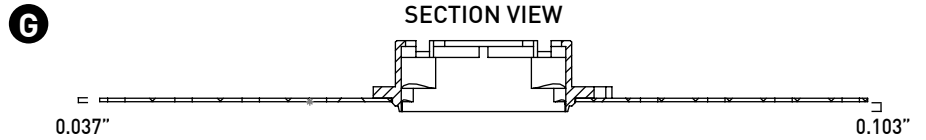
- Power supply compartment and all splice connections may be serviced from room side.
- Consult factory for spacing requirements for any installations exceeding R-Value 60.
- Hanger bars extend from 14.0" to 24.0", but may be field cut to accommodate narrow stud spacing. Can be extended up to 46" maximum 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 both round and square trims feature a round aperture housing collar that rotates up to 90 degrees for fixture alignment. Housing collars accommodate ceiling thicknesses between 0.50" and 1.50".

# 1 SERIES FIXED

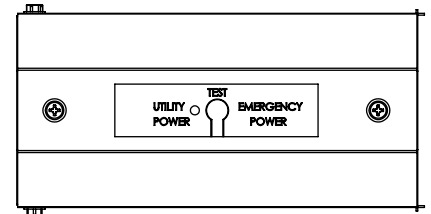
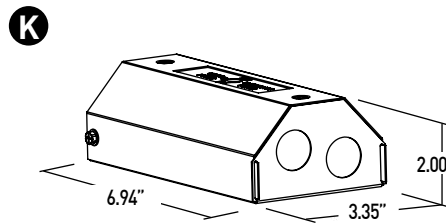
## DOWNLIGHT / HOUSING

- G APPLIQUÉ DETAIL**  
Appliqué for plaster floating directly to baffle.
- H TRIMLESS MILLWORK**  
Installs totally flush with the ceiling with no visible trim. Requires the spacers and adaptor specified with "M" installation type.
- I REMOTE POWER SUPPLY**  
Provided with install Types "IR", "NR", "AR" and "CR". Remote power supply provides additional driver options. See page 6 for maximum allowable secondary run lengths between PS-RMT and fixture. Must be installed in an accessible location.
- J ATHENA / CASAMBI CONTROL**  
Controls integrated Remote driver assembly. All equipment is serviceable.  
  
Athena Model Numbers: A-WN-D01-RF-BL & DFC-OEM-DBI  
  
Casambi Model Number: BT-S1E1-5400
- K ATHENA / CASAMBI EM SHUNT**  
Included 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



	A	B	C
PHASE / 0-10V / DALI / ECOSYSTEM	6.94"	3.35"	2.00"
ATHENA / CASAMBI	8.10"	5.00"	2.00"



# 1 SERIES FIXED

## 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:** Zinc alloy.

### 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 temperature of 2400K. Average rated lamp life of 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 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				ECO	DALI-2	ATHENA		CASAMBI	
Power Supply	PH1	SG1	SN1	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%
Flicker	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX

Note: For LP1, EG1 and EN1 drivers consult chart on page 7 to confirm appropriate dimming curve for compatibility with selected control.

### MAXIMUM ALLOWABLE REMOTE DRIVER WIRING DISTANCES

DRIVER	WIRE AWG				
	12	14	16	18	20
PH1	285'	180'	113'	71'	45'
LP1	60'	40'	25'	15'	-
EG1, EN1, ED1, SG1, SN1, AS1, CS1, AD1, CD1	-	-	118'	72'	46'

### LISTING

Pending listing to 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.

### WEIGHT

Housing with Integral Driver - 7 lbs max

Remote Driver - 1.4 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.](#)



# 1 SERIES FIXED

## DIMMING COMPATIBILITY

### LUTRON DRIVER COMPATIBILITY

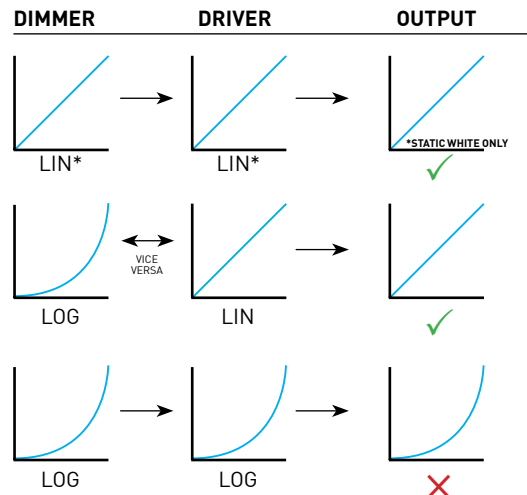
Power supply <b>LP1</b> Lutron Product Family	Part No.
PowPak Dimming Modules	RMJ-EC032-DV-B
PowPak Dimming Modules	FCJ/FCJS-ECO
Energi Savr Nodes	QSN-1ECO-S
GRAFIK Eye QS control unit Homeworks QS control unit	QSN-2ECO-S
GRAFIK Eye QS control unit Homeworks QS control unit	QSGRJ- _E (wireless) QSGR- _E
Quantum Hub	QP2- _ _ 2C
Quantum Hub	QP2- _ _ 4C
Quantum Hub	QP2- _ _ 6C
Quantum Hub	QP2- _ _ 8C
Homeworks QS power module myRoom Plus power module	LQSE-2ECO-D



### eldoLED DRIVER COMPATIBILITY

Power supply <b>EG1/SG1</b> 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 <b>EN1/SN1</b> Manufacturer	Family/Model #
Lutron Electronics	Nova T® - NTFTV
Lutron Electronics	Diva® - DDTV
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