# **MONOPOINT**

# **CM1 HANG STRAIGHT**

An innovative solution for sloped ceilings, this monopoint "hang straight" can suspend with a rigid stem up to 4' in length, for ceiling pitches up to 45° while still allowing for a full 90° tilt.





#### ORDERING INFORMATION - MONOPOINT



# JA8-2022 COMPLIANCE INDICATED BY SHADING

							24	, 20	22 COMPLIANC		
CYLINDER	LENGTH	FIXTURE	BODY FINISH	BAFFLE FINISH	STEM FINISH	CRI/WATTAGE PACKAGE	ССТ	OPTIC (UGR)	DRIVER	MEDIA	MOUNTING
CM1		HS1									
CM1 2.60"	LENGTHS SL 3" Standard 24 24" 48 48" 24" AND 48" STEMS ARE FIELD CUTTABLE. 3" STANDARD LENGTH STEM IS MINIMUM LENGTH	HS1  ADJUSTABLE DRY / DAMP  HS1 Adjustable 90° Fixture Tilt, Max ceiling pitch 12/12 (45°)	AB Architectural Bronze AG Satin Silver AU Cashmere Gold BB Burnt Bronze CF Custom Finish* *(consult Factory)  ALUMINA 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	POWDERCOAT WH White BK Black AB Architectural Bronze AG Satin Silver AU Cashmere Gold BB Burnt Bronze CF Custom Finish* *(Consult Factory)  ALUMINA CONSULT FACTORY FOR ALUMINA FINISHES	POWDERCOAT WH White BK Black AB Architectural Bronze AG Satin Silver AU Cashmere Gold BB Burnt Bronze CF Custom Finish* *(Consult Factory)  ALUMINA CONSULT FACTORY FOR ALUMINA FINISHES	STATIC WHITE  80511A 80+ CRI, 11 Watts Im Delivered - 1095  90511A 90+ CRI, 11 Watts Im Delivered - 941  97511A 97+ CRI, 11 Watts Im Delivered - 826  REMOTE STATIC WHITE  80517A 80+ CRI, 17 Watts Im Delivered - 1655  90517A 90+ CRI, 17 Watts Im Delivered - 1422  97517A 97+ CRI, 17 Watts Im Delivered - 1249  WARM DIM  90L11A 90+ CRI, 11 Watts Im Delivered - 920  Halogen Profile Im Delivered - 967  REMOTE WARM DIM  90L17A 90+ CRI, 17 Watts Incandescent Profile Im Delivered - 967  REMOTE WARM DIM  90L17A 90+ CRI, 17 Watts Incandescent Profile Im Delivered - 1227  Halogen Profile Im Delivered - 1227  Halogen Profile Im Delivered - 1291  SEE PAGE 4 FOR	24 2400K* *[90+ CRI only] 27 2700K 30 3000K 35 3500K 40 4000K  24 2400K* *[90+ CRI only] 27 2700K 30 3000K 35 3500K 40 4000K  WL 2700K - 1800K  WL 2700K - 1800K  WL 2700K - 1800K  WD 3000K - 1800K	15 15° (<13) 20 20° (<10) 25 25° (<10) 40 40° (<13) 60 60° (<13) 15 15° (<13) 20 20° (<10)	120-277V CE Electronic ELV / TRIAC 120V  REMOTE (120V) RE Electronic ELV / TRIAC  REMOTE (120V-277V) RA 0-10V Analog LH Lutron, Hi-Lume Ecosystem 1% Fade to Black, LP Lutron, Hi-Lume Premier Ecosystem 0.1% Fade to Black EG eldol ED, SOLOdrive 0.1% 0-10V, LOG EN eldoLED, SOLOdrive 0.1% 0-10V, LIN ED eldoLED, SOLOdrive 0.1% 0-10V, LIN ED eldoLED, SOLOdrive 0.1% DALI-2, LOG	STANDARD MEDIA 4 Soft Focus Lens* *(Required for 10° optic)  ALTERNATE MEDIA 2 Honeycomb Louver* *(Not available for Wet Location) 3 Clear Glass Lens 5 Frosted Glass Lens 6 Frosted Soft Focus Lens 7 Frosted Linear Spread Lens S Soft Focus Lens w/ Honeycomb Louver F Frosted Glass Lens w/ Honeycomb Louver N No Lens* *(Not available for Wet Location)	ROUGH-IN  J JBMP 4" Sq. or 4/0 Junction Box Mounting Plate Features 2.6" diameter canop "Mounting plate must installation]  FINISH OUT G Zero Sightline Gypsum (1/16" Appliqu Features 2.6" diameter canopy* *(Mounts to 4/0 junction box) W Zero Sightline Millwork Features 2.6" diameter canopy* *(Mounts to 4/0 junction box. Requires accessory part number CMHS-RTG ordered separately.] R Remodel 4.5" Flange Overlay Canopy* *(Mounts to existing 4/) junction box)
CM1 s	ote driver sh	g., CM124HS nips as e.g.,	Patinated Bronze S1WHBK90S11* PS-RMT-90S-1 m fixture, part	11A-1RE*	on page 6	WARM DIM PROFILE COMPARISON  REMOTE TUNABLE WHITE 90T17A 90+ CRI, 17W Cool Profile: 5000K - 2700K Im Delivered - 888 Warm Profile: 4000K - 1800K Im Delivered 896  ALL LM DELIVERED AND T24 COMPLIANCE REFLECT 3000K PAIRED WITH 25° OPTIC AND SOFT FOCUS LENS	TH 5000K - 2700K TR 4000K - 1800K	15 15° (<13) 20 20° (<10) 25 25° (<10) 40 40° (<10) 60 60° (<13)	(120-277V)  DD eldoLED, DUALdrive 0.1% DALI-2, LOG  DG eldoLED, DUALdrive 0.1% 0-10V, LOG  DN eldoLED, DUALdrive 0.1% 0-10V, LIN AD1/Althena Control ADR eldoLED, DUALdrive 0.1%* "lincludes Athena Node. Increased lead time, consult CD1/Casambi Control CDR eldoLED, DUALdrive 0.1%* "Includes Casambi Node. Extended lead time, consult		





#### **FINISHES**

#### **POWDERCOAT FINISHES**



#### **ALUMINA FINISHES BY LUCIFER LIGHTING™**



#### **ACCESSORIES**

#### REPLACEMENT MEDIA

□ HCL-CT1 Honeycomb Louver\*
 □ CGL-CT1 Clear Glass Lens
 □ SFL-CT1 Soft Focus Lens
 □ FGL-CT1 Frosted Glass Lens
 □ FSFL-CT1 Frosted Soft Focus Lens
 □ FLSL-CT1 Frosted Linear Spread Lens

#### **REPLACEMENT OPTICS**

Interchangeable optics accessible by removing baffle.

Static Whi	te	Warm D	im	Tunable White		
□ R0-50-15-S 1	15° optic	□ R0-50-15-W	15° optic	☐ R0-50-15-S	15° optic	
□ R0-50-20-S 2	20° optic	☐ R0-50-20-W	20° optic	☐ R0-50-20-S	20° optic	
□ R0-50-25-S 2	25° optic	□ R0-50-25-W	25° optic	☐ R0-50-25-S	25° optic	
□ R0-50-40-S 4	40° optic	☐ R0-50-40-W	40° optic	☐ R0-50-40-S	40° optic	
□ R0-50-60-S 6	60° optic	☐ R0-50-60-W	60° optic	☐ R0-50-60-S	60° optic	

#### **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

#### ZERO-SIGHTLINE MILLWORK ROUTER TOOL GUIDE

Required for zero-sightline millwork installations. Factory recommends qty. 2 per order.

☐ CMHS-RTG Router Tool Guide



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

### PERFORMANCE - 3000K

LUMEN		10° C FIELD R		15° OPTIC SOFT FOCUS LENS		20° 0 S0FT F00		25° C SOFT FOO		40° OPTIC SOFT FOCUS LENS		60° OPTIC SOFT FOCUS LENS	
PACKAGE	WATTAGE	DELIVERED	LPW	DELIVERED		DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW
80S11A	11	454	41	991	90	1093	99	1095	100	1019	93	1145	104
80S17A	17	619	36	1435	84	1701	100	1655	97	1513	89	1640	96
90S11A	11	391	35	851	86	939	95	941	96	875	89	984	100
90S17A	17	532	31	1233	76	1461	90	1422	87	1300	80	1409	86
97S11A	11	337	30	747	68	824	75	826	75	768	70	864	79
97S17A	17	460	27	1083	64	1283	75	1249	73	1141	67	1237	73
90L11A (2700K-1800K)	11	-	-	830	75	945	86	920	84	851	77	918	83
90L11A (3000K-1800K)	11	-	-	872	79	993	90	967	88	895	81	964	88
90L17A (2700K-1800K)	17	-	-	1107	65	1261	74	1227	72	1135	67	1223	72
90L17A (3000K-1800K)	17	-	-	1164	68	1326	78	1291	76	1194	70	1287	76
90T17A (4000K-1800K)	17	-	-	798	47	917	54	896	53	811	48	910	54
90T17A (5000K-2700K)	17	-	-	791	47	909	53	888	52	803	47	902	53

## JA8-2022 INDICATED BY SHADING

#### UNIFIED GLARE RATING

10° OPTIC	15° OPTIC	20° OPTIC	25° OPTIC	40° OPTIC	60° OPTIC
FIELD REDUCER	SOFT FOCUS LENS				
>19	<16	<10	<10	<10	

#### MEDIA LIGHT LOSS MULTIPLIER

MEDIA	LIGHT LOSS FACTOR
No Lens	1.05
CGL	1.00
SFL	1.00
FGL	0.85
FSFL	0.82
FLSL	0.78
HCL	0.75
SFL W/ HCL	0.68
FGL W/ HCL	0.47

#### **OUTPUT MULTIPLIER**

CCT	CCT SCALE			
2400K	0.85			
2700K	0.97			
3000K	1.000			
3500K	1.03			
4000K	1.08			

#### TUNABLE WHITE MULTIPLIER

IUNABLI	TONABLE WHITE MULTIPLIER							
ССТ	5000K- 2700K	4000K- 1800K						
5000K	1.16	-						
4000K	1.08	1.14						
3500K	1.04	1.07						
3000K	1.00	1.00						
2700K	0.96	0.92						
2400K	-	0.84						
1800K	-	0.69						

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

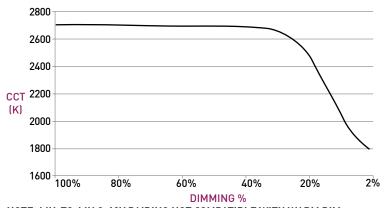
### WARM DIM PERFORMANCE - SOFT FOCUS LENS - 25° OPTIC

#### INCANDESCENT PROFILE

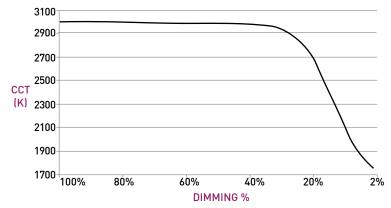
90L11AWL 2700K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	2700	2700	2700	2600	2200	1900	1800
Light Output (Lm)	920	736	644	460	184	92	18
Power (W)	11	8.8	7.7	5.5	2.2	1.1	0.2
Efficacy (LPW)	84	84	84	84	84	84	84
90L17AWL 2700K - 1800K	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	1950K	1800K
Light Output (Lm)	1227	982	859	614	245	123	25
Power (W)	22	17.6	15.4	11	4.4	2.2	0.4
Efficacy (LPW)	72	72	72	72	72	72	72

#### HALOGEN PROFILE

90L11AWD 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	3000	3000	3000	2500	1900	1800
Light Output (Lm)	967	774	677	484	193	97	19
Power (W)	11	8.8	7.7	5.5	2.2	1.1	0.2
Efficacy (LPW)	88	88	88	88	88	88	88
90L17AWD 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	2150K	1800K
Light Output (Lm)	1291	1033	904	646	258	129	26
Power (W)	22	17.6	15.4	11	4.4	2.2	0.4
Efficacy (LPW)	76	76	76	76	76	76	76



 $\underline{\text{NOTE}}\textsc{:}\ \text{LIN-TO-LIN}\ \text{O-10V}\ \text{PAIRING}\ \text{NOT}\ \text{COMPATIBLE}\ \text{WITH WARM}\ \text{DIM}.$ 



#### MONOPOINT

#### A STEM

Standard length is 3", also available in 24" and 48" lengths. All lengths excepts 3" are field cuttable. Powdercoat finishes standard, consult factory for Alumina finishes.

#### BODY

Available in powdercoat and Alumina finishes. Power supply integrated into fixture body.

#### OPTICS

Robust light engine with optimized optic pairing integrates Reflection, Refraction, and TIR offering 10°, 15°, 20°, 25°, 40° & 60° beams.

#### 10° FIELD REDUCER

Soft Focus Lens, Honeycomb Louver, and Field Reducer provided with 10° optic. Reduces field angle by 30%.

Soft Focus Lens standard. Wet location media sealed in place.

### BAFFLE

Accepts 2 media devices. Baffle minimizes aperture glare and conceals view into fixture. Powdercoat finishes standard, consult factory for Alumina finishes.

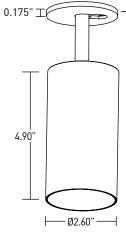
#### **6** HANG STRAIGHT CANOPY

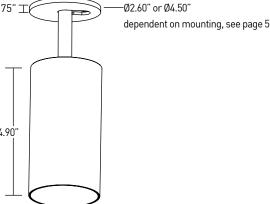
Features hidden ball joint that accomodates installations on up to 12/12 (45°) sloped ceilings.

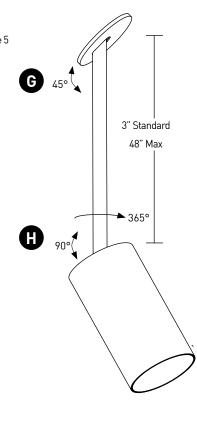
#### ADJUSTABILITY

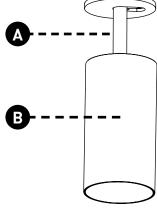
Features locking 90° tilt and 365° rotation. Stem features 45° tilt to accommodate up to 12/12 slopes.

#### **DIMENSIONS / DRAWINGS**



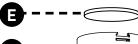


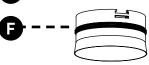












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#### **MOUNTING**

IMPORTANT: Fixture cannot be installed with pancake junction boxes.

JUNCTION BOX MOUNTING PLATE Mounting plate (concealed) for standard 4" square or 4" 4/0 j-box . To be installed during rough-in, prior to substrate, for ceiling thicknesses up to 0.75". Fixture to mount flush with minimalist transition to ceiling.

Part Number - CMHS-JBMP

#### ZERO-SIGHTLINE DRYWALL

Provided with mud-in applique that mounts to standard 4" 4/0 junction box. Allows fixture canopy to be recessed into ceiling for a flush or zero-sightline aesthetic. Standard plaster stop thickness of 1/16". Not recommended for stucco applications.

Part Number - DLA-APP-CMHS

#### REMODEL / FLANGE OVERLAY

Provided with oversized canopy and mounting plate for standard 4" square or 4" 4/0 junction boxes . Ideal for existing applications and features oversized 4.5" canopy to cover standard 4" octagon box cutout.

#### ZERO-SIGHTLINE MILLWORK

Mounting plate (concealed) for standard 4" square or 4" 4/0 junction boxes. To be installed during rough-in prior to substrate. Router guide, specified separately, required to make surface bore allowing fixture canopy to be recessed into ceiling for a flush or zero-sightline aesthetic.

Part Number - CMHS-JBMP

Router Guide Part Number - CMHS-RTG

# **DIMENSIONS / DRAWINGS ZERO-SIGHTLINE DRYWALL** JUNCTION BOX MOUNTING PLATE 4/0 J-box 4" Sq. or 4/0 J-box by others by others -CM-JBMP-HS **INSTALL JBMP BEFORE CEILING** Ø2-1/8" Cutout Appliquè Ø2.60"-ZERO-SIGHTLINE MILLWORK REMODEL / FLANGE OVERLAY 4" Sq. or Existing 4/0 J-box 4/0 J-box by others CM-JBMP-HS **INSTALL JBMP BEFORE CEILING** 4/0 J-Box Mount Plate Ø2.60" / 0.175" deep Ø2-1/8" Cutout surface bore Ø2.60"-Router Tool

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

Guide

pg. 6

#### **REMOTE POWER SUPPLY**

- Remote power supply provides additional driver options. See page 8 for maximum allowable wiring distance. Must be installed in an accessible location.
- ATHENA / CASAMBI CONTROL Controls integrated into remote driver assembly. All equipment is serviceable.

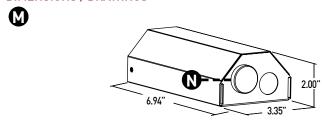
Athena Model Numbers: A-WN-D01-RF-BL & DFC-0EM-DBI

Casambi Model Number: BT-S1E1-5400

ATHENA / CASAMBI EM SHUNT Inlouded with drivers specified as ASR, ATR, CSR, or CTR. 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**







#### TECHNICAL

#### CONSTRUCTION

<u>Monopoint</u>: Machined aluminum body; painted finishes are granulated powder coat; Alumina finishes are anodized aluminum.

Remote Power Supply: 22 Gauge galvanized steel.

Appliqué: Machined Aluminum

#### STATIC WHITE LED

2-step MacAdam ellipse LED module available in 80+, 90+ and 97+ CRI configurations in color temperatures of 2700K, 3000K, 3500K and 4000K. 3-step MacAdam ellipse LED module available in 90+ CRI configurations in color temperature of 2400K. Average rated lamp life of 50,000 hours.

#### WARM DIM I FD



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.

#### TUNABLE WHITE LED



3-step MacAdam ellipse tunable white LED module available in 90+ CRI configuration. Features tuning ranges of 1800K to 4000K and 2700K to 5000K. Average rated lamp life of 50,000 hours.

#### POWER SUPPLY PERFORMANCE AND DIMMING INFORMATION

	PHASE	E	CO		0-10V				DALI-2		ATHENA		CASAMBI			
Power Supply	CE/RE	LH	LP	CA/RA	SG	SN	EG	EN	DG	DN	ED	DD	AS	AT	CS	СТ
Minimum °C	-20 °C	0°C	0°C	-20°C	-20 °C	-20 °C	-20 °C	-20°C	-20 °C	-20 °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	40 °C	40 °C	40 °C	40 °C	40 °C
Dimming %	2.0%	1.0%	0.1%	2.0%	1.0%	1.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Note: For LH, LP, SG, SN, EG, EN, DG, and DN drivers consult chart on page 9 to confirm appropriate dimming curve for compatibility with selected control.

#### MAXIMUM ALLOWABLE REMOTE DRIVER WIRING DISTANCES

	WIRE AWG								
DRIVER	12	14	16	18	20				
RA, RE	-	164'	105'	66'	40'				
SG, SN	285'	180'	113′	71'	45'				
LH, LP	60'	40'	25'	15'	-				
EG, EN, ED, DG, DN, DD, AS, AT, CS, CT	-	-	118'	72	46'				

#### LISTING

cTUVus listed to UL1598 standard for Dry / Damp locations. Title 24 JA8-2022 Listed. NEMA 410 Compliant.

#### **DECLARE**

LBC Red List Approved.

#### **BUY AMERICA ACT**

All CM1 Hang Straight fixtures are BAA compliant.

#### 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.



1.02/13/2024: ADDED TUNABLE WHITE OFFERING.

2.03/18/2024: UPDATED 10 DEGREE NARROW BEAM TO UTILIZE FILED REDUCER.

3.07/15/2024: REMOVED L2 DRIVER OFFERING.

4.09/19/2024: UPDATED WITH NEW BAFFLE DESIGN.

5.05/07/2025: UPDATED WARM DIM OFFERING.





#### DIMMING COMPATABILITY

#### PHILIPS DRIVER COMPATIBILITY

Power supply <b>SG Manufacturer</b>	Family/Model #
Lutron Electronics	DVTV plus PP-DV
Lutron Electronics	DVSCTV plus PP-DV
Lutron Electronics	DVSTV
Lutron Electronics	DVSCSTV
Lutron Electronics	QSGRJ-XP plus GRX-TVI
Lutron Electronics	QSGRJ-XE plus GRX-TVI
Lutron Electronics	QSGR-XE plus GRX-TVI
Lutron Electronics	NFTV plus PP-DV
Lutron Electronics	NTSTV
Lutron Electronics	RMJ-5T
Lutron Electronics	RMJS-8T
Lutron Electronics	FCJS-010
Leviton	IllumaTch IP7 series
Philips	Sunrise - SR1200ZTUNV

#### **LUTRON DRIVER COMPATIBILITY**

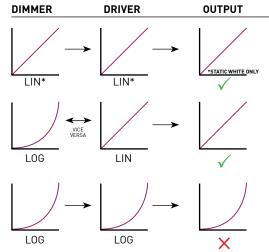
Power supply LH / LP Lutron Product Family	Part No.
PowPak Dimming Modules	RMJ-EC032-DV-B
PowPak Dimming Modules	FCJ/FCJS-ECO
Energi Savr Nodes	QSN-1ECO-S
GRAFIK Eye QS control unit Homeworks QS control unit	QSN-2ECO-S
GRAFIK Eye QS control unit Homeworks QS control unit	QSGRJE (wireless) QSGRE
Quantum 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 <b>EG, DG Manufacturer</b>	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 EN, DN 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