

CYLINDER 1

SURFACE MOUNT

PROJECT NAME:	TYPE:
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Highlight art, objects, places, spaces, seating areas, and architectural details with a classic profile that offers easy-to-adjust, in-field versatility.

ORDERING INFORMATION - CYLINDER



Quick Ship Product. All rough in components ship within 10 days up to quantities of 100.



JA8-2019 COMPLIANCE INDICATED BY SHADING

CYLINDER	FIXTURE	RATING	CYLINDER FINISH	BAFFLE FINISH	LUMEN PACKAGE	CCT	OPTIC	DRIVER	EFFECTS DEVICE	MOUNTING
CY1				BK						
CY1 2.50"	AD Standard 42° 9D Max 90° Tilt* <small>*[Not available for Wet location; Increased lead time]</small> AS Standard 42° Shallow Canopy* <small>*[Remote driver only; increased lead time]</small> 9S Max 90° Tilt Shallow Canopy* <small>*[Not available for Wet location; Remote driver only; increased lead time]</small>	1 Dry/Damp 2 Wet	WH White BK Black AB Architectural Bronze* <small>*[Increased lead time]</small> AG Satin Silver* <small>*[Increased lead time]</small> MA Machined Aluminum* <small>*[Not available with 9D, 9S, or Wet location]</small> CF Custom Finish* <small>*[Consult Factory]</small>	BK Black	STATIC WHITE 80C12A 80+ CRI, Delivered Lumens - 790 80C19A 80+ CRI, Delivered Lumens - 1216 90C10A 90+ CRI, Delivered Lumens - 676 90C15A 90+ CRI, Delivered Lumens - 1039 97C09A 97+ CRI, Delivered Lumens - 603 97C14A 97+ CRI, Delivered Lumens - 925 WARM DIM 90W11A 90+ CRI, Delivered Lumens - 869 Incandescent Profile 90W13A 90+ CRI, Delivered Lumens - 915 Halogen Profile <small>*SEE PAGE 3 FOR DETAILED WARM DIM PROFILE COMPARISON.</small> <small>*ALL DELIVERED LUMEN OUTPUTS AND T24 COMPLIANCE REFLECT 3000K PAIRED WITH 40° OPTIC AND SOFT FOCUS LENS. REFERENCE PAGE 3 FOR ADDITIONAL T24 COMPLIANT CONFIGURATIONS.</small>	22 2200K* <small>*[Only available for 90+ CRI]</small> 27 2700K 30 3000K 35 3500K 40 4000K WL 2700K - 1800K WD 3200K - 1800K	10 10°* <small>*[Only available for 80C12A, 90C10A, and 97C09A. Not available for 2200K]</small> 15 15° 20 20° 40 40° 60 60° 20 20° 40 40° 60 60°	INTEGRAL CA2 120-277V 0-10V Analog CE2 120V Electronic ELV Forward / Reverse Phase REMOTE (120V) TR2 Philips, 2% Leading/Trailing / Triac* <small>*[Not available for 80C12A, 90C10A, and 97C09A unless 10° optic is specified]</small> L23 Lutron, Hi-Lume 1% 2-Wire REMOTE (120-277V) LH1 Lutron, Hi-Lume 1% Ecosystem AN4 Philips Xitanium 1% 0-10V, LOG LN2 Philips Xitanium 1% 0-10V, LIN EA2 eldoLED, SOLOdrive 0.1% 0-10V, LOG LA2 eldoLED, SOLOdrive 0.1% 0-10V, LIN ED1 eldoLED, SOLOdrive 0.1% DALI, LOG LD1 eldoLED, SOLOdrive 0.1% DALI, LIN	STANDARD EFFECTS DEVICE 4 Soft Focus Lens 0 No Lens* <small>*[Standard for 10° optic. Not available for Warm Dim, or Wet location]</small> ALTERNATE EFFECTS DEVICE 2 Honeycomb Louver* <small>*[Not available for Warm Dim, or Wet location]</small> 3 Clear Glass Lens* <small>*[Not available for Warm Dim]</small> 5 Frosted Glass Lens 6 Frosted Soft Focus Lens 7 Frosted Linear Spread Lens	ROUGH-IN JBMP 4" Sq. or 4/0 Junction Box Mounting Plate <small>Ⓢ</small> FINISH OUT SMK3 3/0 Surface Mount Kit <small>Ⓢ</small> SMK4 4/0 Surface Mount Kit <small>Ⓢ</small> CMJB 1/2" and 3/4" Conduit Ceiling Mount Junction Box* <small>*[Not available for MA finish or Wet location, Quick Ship Product for WH and BK finishes only]</small> <small>Ⓢ</small>



PART NUMBER NOTES

- CY1 ships as e.g., CY1-AD-1-WH-90C10A2-3-RMT-4
- Remote driver ships as e.g., PS-RMT-90C10A-1L23
- JBMP ships as CY1-JBMP
- SMK3 ships as CY1-SMK-3/0-(finish)
- SMK4 ships as CY1-SMK-4/0-(finish)
- CMJB ships as CY1-CMJB-(finish)

CYLINDER 1 SURFACE MOUNT

ACCESSORIES

ALTERNATE EFFECTS DEVICES

- HCL-CY1-03** Honeycomb Louver *
*(Not available for Warm Dim, or Wet location)
- CGL-CY1-03** Clear Glass Lens *
*(Not available for Warm Dim)
- SFL-CY1-03** Soft Focus Lens
- FGL-CY1-03** Frosted Glass Lens
- FSFL-CY1-03** Frosted Soft Focus Lens
- FLSL-CY1-03** Frosted Linear Spread Lens

REPLACEMENT OPTICS

- Interchangeable optics accessible by removing snoot.
- RO-50-15-2** 15° optic *
*(Not available for Warm Dim)
 - RO-50-20-2** 20° optic
 - RO-50-40-2** 40° optic
 - RO-50-60-2** 60° optic

STATIC WHITE PERFORMANCE - 3000K

LUMEN PACKAGE	WATTAGE	10° OPTIC NO SOFT FOCUS LENS		15° OPTIC SOFT FOCUS LENS		20° OPTIC SOFT FOCUS LENS		40° OPTIC SOFT FOCUS LENS		60° OPTIC SOFT FOCUS LENS	
		DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW
80C12A	10	693	40 (17W)	884	88	665	67	790	79	791	79
80C19A	17	-	-	1363	81	1024	60	1216	76	1218	72
90C10A	10	587	34 (17W)	731	73	569	57	676	68	676	68
90C15A	17	-	-	1127	67	874	51	1039	61	1040	61
97C09A	10	542	31 (17W)	666	67	508	51	603	60	604	61
97C14A	17	-	-	1028	61	779	46	925	54	926	55
90W11A	16	-	-	-	-	739	47	869	54	873	55
90W13A	16	-	-	-	-	785	49	915	57	919	57

OUTPUT MULTIPLIER	
CCT	CCT SCALE
2200K (Consult factory for JA8 details)	0.800
2700K	0.957
3000K	1.000
3500K	1.019
4000K	1.030

LIGHT LOSS FACTOR MULTIPLIER	
No Lens	1.05
CGL	1.05
SFL	1.00
FGL	0.90
FSFL	0.87
FLSL	0.83
HCL	0.65

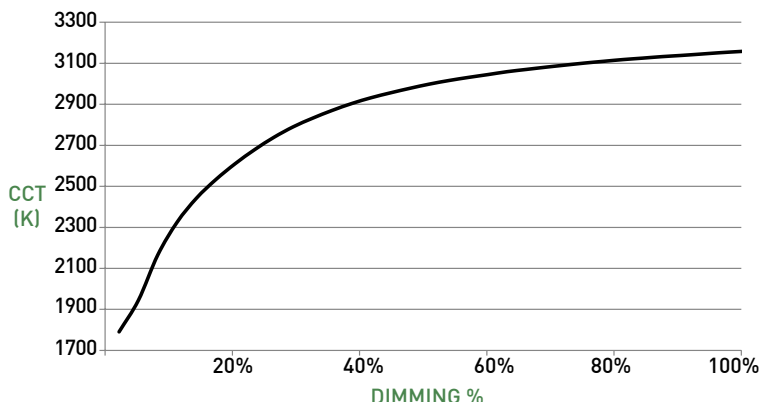


JA8-2019 INDICATED BY SHADING

WARM DIM PERFORMANCE - SOFT FOCUS LENS - 40° OPTIC

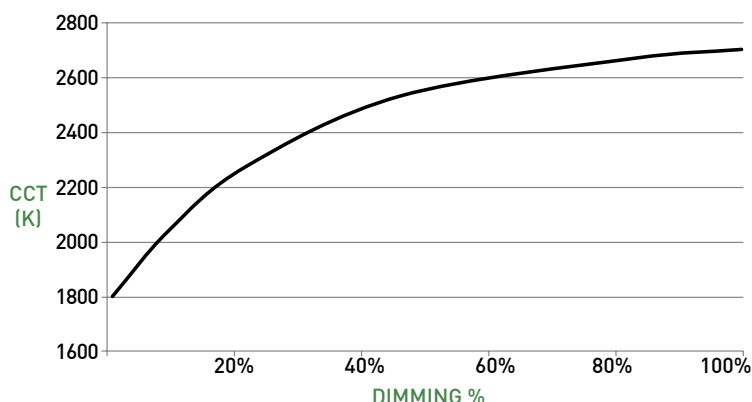
WARM DIM TO MIRROR HALOGEN DIMMING PROFILE

90W13A 3200K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	3200	3150	3100	3000	2700	2200	1800
Light Output (Lm)	915	732	641	457	183	91	18
Power (W)	16	13	11	8	3	1.7	0.3
Efficacy (LPW)	57	57	57	57	57	57	57



WARM DIM TO MIRROR INCANDESCENT DIMMING PROFILE

90W11A 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	2650	2620	2520	2180	1950	1800
Light Output (Lm)	869	880	770	550	220	110	30
Power (W)	16	13	11	8	3	1.7	0.3
Efficacy (LPW)	54	54	54	54	54	54	54

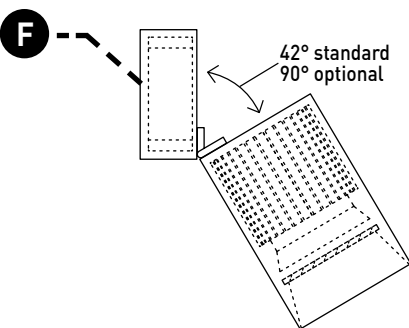
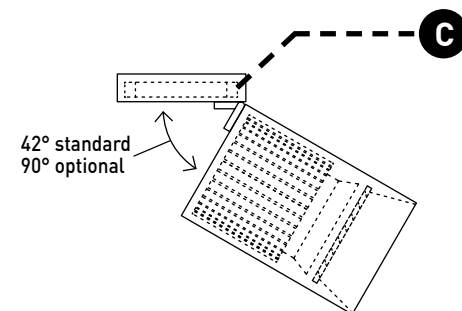
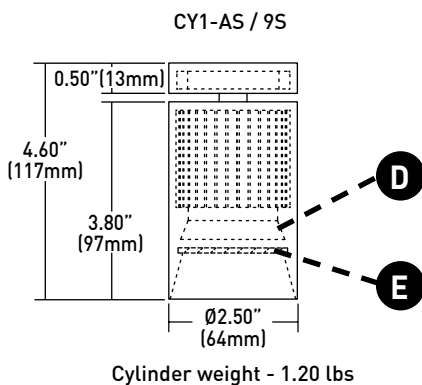
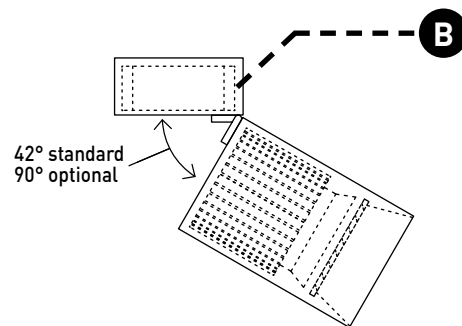
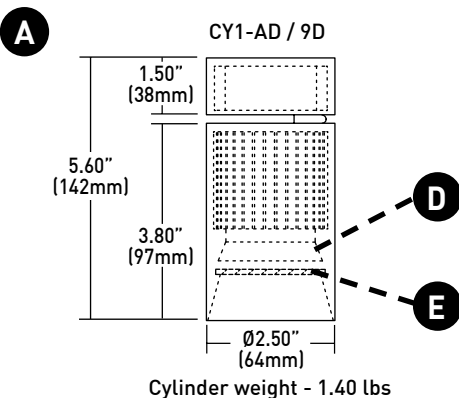


CYLINDER 1 SURFACE MOUNT

STEM ASSEMBLY

- A LUMINAIRE**
Body with integrated heat sink and LED. Conceals hidden twist-on mounting hardware. Power supply may be integral or remote mount.
- B STANDARD CANOPY**
Die-cast canopy accommodates flat and slope ceiling conditions. Conceals hidden twist-on mounting hardware. "AD" (42° tilt, 357° rotation) and "9D" (90° tilt, 357° rotation) canopy features 1.50" (38mm) tall canopy. Available with integral or remote driver.
- C SHALLOW CANOPY**
Die-cast canopy accommodates flat and slope ceiling conditions. Conceals hidden twist-on mounting hardware. "AS" (42° tilt, 357° rotation) and "9S" (90° tilt, 357° rotation) canopy features 0.50" (13mm) tall canopy, reducing overall height. Requires remote power supply.
- D STANDARD OPTICS**
Proprietary optics available in 10°, 15°, 20°, 40° & 60° beams.
- E EFFECTS DEVICE**
Threaded removable cowling provides virtually seamless joint with fixture body and accepts 1 lens; soft focus lens standard. Sealed in place for Wet locations.
- F WALL-MOUNT**
Cylinder may be wall mounted using any mounting option, Dry / Damp location only.

DIMENSIONS / DRAWINGS

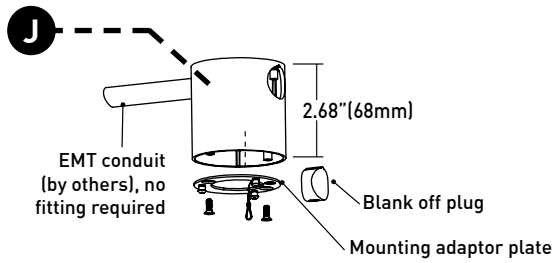
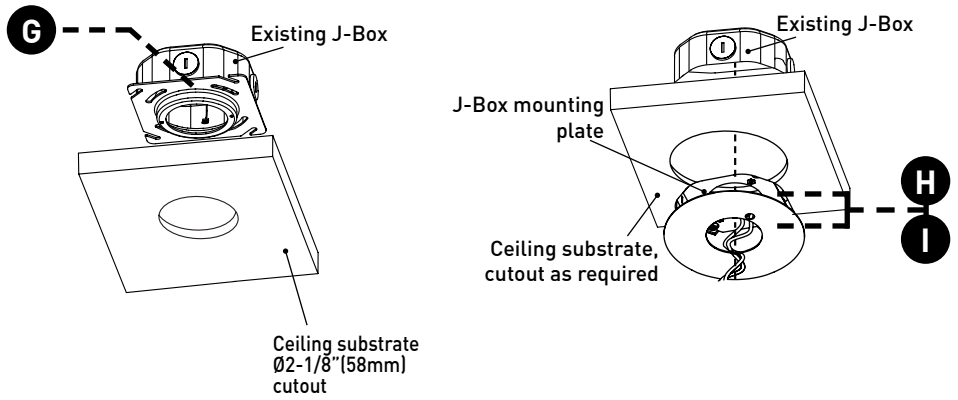


CYLINDER 1 SURFACE MOUNT

MOUNTING

- G JBMP**
Mounting plate (concealed) for standard 4" square or 4" 4/0 j-box . To be installed during rough-in prior to substrate. Fixture to mount flush with minimalist transition to ceiling.
- H SMK3**
Surface mount kit includes mounting plate and 4" concealer plate that installs between fixture and standard 3" 3/0 j-box for existing applications where standard j-box cutout is to be concealed.
- I SMK4**
Surface mount kit includes mounting plate and 5" concealer plate that installs between fixture and standard 4" 4/0 j-box for existing applications where standard j-box cutout is to be concealed.
- J CMJB**
Ceiling mount junction box perfectly matches the cylinder profile for a continuous, integrated look where exposed ceiling mount junction box and conduit applications apply. For use with 1/2" and 3/4" EMT conduit only. Features two conduit entrances on either side and one conduit knockout on top of j-box. J-box is IP10 rated; painted finishes only. Blank off plugs included.

DIMENSIONS / DRAWINGS

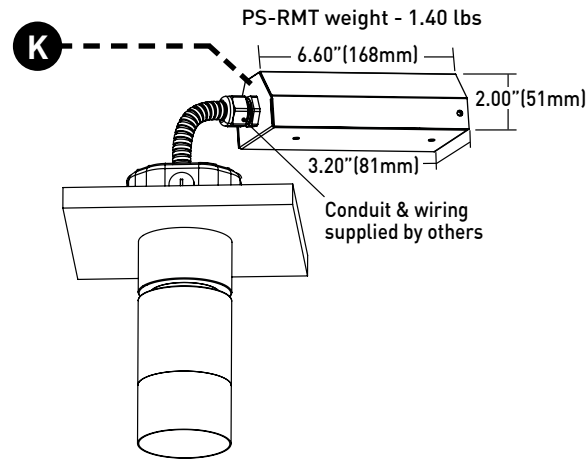


MOUNTING NOTES

- CY1-JBMP and CY1-SMK-3/0 & 4/0 not recommended for use with pancake style j-box.

REMOTE POWER SUPPLY

- K PS-RMT**
Remote power supply provides additional driver options. Mounting device still required. Consult install guide for maximum allowable secondary run lengths between PS-RMT and cylinder.



Cylinder weight - 1.20 lbs

CYLINDER 1 SURFACE MOUNT

TECHNICAL

CONSTRUCTION

Cylinder: Die-cast aluminum body; extruded aluminum internal heat-sink; painted finishes are granulated powder coat.

CMJB: Die-cast aluminum body; painted finishes are granulated powder coat.

Remote Power Supply: 22 Gauge galvanized steel.

STATIC WHITE LED

2-step MacAdam ellipse LED module available in 80+, 90+ and 97+ CRI configurations in color temperatures of 2200K, 2700K, 3000K, 3500K and 4000K. 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. 3200K 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

Power Supply	CA2	CE2	TR2	L23	LH1	AN4	LN2	EA2	LA2	ED1	LD1
Minimum °C	-20 °C	-20 °C	-20 °C	0 °C	0 °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
Dimming %	2.0%	SEE NOTE	2.0%	1.0%	1.0%	1.0%	1.0%	0.1%	0.1%	0.1%	0.1%

CE2 Dimming: 80C12A, 90C10A and 97C09A feature 3% dimming. 80C19A, 90C15A and 97C14A feature 2% dimming.

Note: For TR2, L23, LH1, AN4, LN2, EA2 and LA2 drivers consult chart on page 6 to confirm appropriate dimming curve for compatibility with selected control.

MOUNTING

Cylinder is supplied with a mounting adaptor plate, which integrates with required additional mounting accessories specified separately according to field application conditions, providing a minimalist transition from standard 4/0 or 4" square junction boxes and accommodating ceiling thicknesses of 0.44" (12mm) to 0.75" (19mm). Ceiling-mount junction box available for 1/2" (13mm) and 3/4" (19mm) conduit and feature concealed internal clamps for clean fitting-free conduit exit and entry.

LISTING

cTUVus listed to UL1598 standard for Dry / Damp and Wet locations. Title 24 JA8-2019 Listed.

WARRANTY

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

CHANGE LOG

- 10/21/2019: ADDED QUICK SHIP.
- 10/21/2019: NOW OFFERED WITH SATIN SILVER FINISH.
- 10/21/2019: NEW CONSOLIDATED SPEC SHEET WITH SINGLE NOMENCLATURE FOR SPECIFICATION.
- 01/12/2021: ADDED 2200K, 2700K-1800K WARM DIM AND 10 DEGREE OPTIC OFFERINGS.
- 05/05/2021: REMOVED EMB OFFERINGS.

CYLINDER 1 SURFACE MOUNT

DIMMING COMPATIBILITY

PHILIPS DRIVER COMPATIBILITY

Power supply TR2 Manufacturer	Family/Model #
Lutron Electronics	DV-600P
Lutron Electronics	DVELV-303P
Lutron Electronics	NTELV-600
Lutron Electronics	MAELV-600
Lutron Electronics	SELV-300P
Lutron Electronics	DVLV-600P
Lutron Electronics	NFTU-5A
Lutron Electronics	CTCL-153P
Lutron Electronics	GL-600H
Lutron Electronics	S-600P
Lutron Electronics	PHPM
Power supply AN4 / LN2 Manufacturer	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 L23 Lutron Product Family	Part No.
Maestro WirelessR 600 W dimmer	MRF2-6ND-120-
Maestro WirelessR 1000 W dimmer	MRF2-10ND-120-
Caséta® Wireless Pro 1000 W dimmer	PD-10NXD-
GRAFIK T™ CL® dimmer	GT-250M- GTJ-250M-
HomeWorks® QS adaptive dimmer	HQRD-6NA-
HomeWorks® QS 600 W dimmer	HQRD-6ND-
HomeWorks® QS 1000 W dimmer	HQRD-10ND-
RadioRA® 2 adaptive dimmer	RRD-6NA-
RadioRA® 2 1000 W dimmer	RRD-10ND
myRoom™ DIN power module	MQSE-4A1-D
HomeWorks® QS DIN power module	LQSE-4A1-D
HomeWorks® QS wallbox power module	HQRJ-WPM-6D-120
HomeWorks® wallbox power module	HWI-WPM-6D-120
GRAFIK Eye® QS control unit	QSGR-, QSGRJ-
GRAFIK Eye® 3000 control unit	GRX-3100- GRX-3500-
RPM-4U module (LCP, HomeWorks® QS, GRAFIK Systems™, Quantum®)	HW-RPM-4U-120 LP-RPM-4U-120
RPM-4A module (LCP, HomeWorks® QS, GRAFIK Systems™, Quantum®)	HW-RPM-4A-120, LP-RPM-4A-120
GP dimming panels	Various
Ariadni CL 250W dimmer	AYCL-253P-
Diva CL 250W dimmer	DVCL-253P- DCSCCL-253P-
Nova T CL 250W dimmer	NTCL-250-
Power supply LH1 Lutron Product Family	Part No.
PowPak Dimming Modules	RMJ-ECO32-DV-B
PowPak Dimming Modules	FCJ/FCJS-ECO
Energi Savr Nodes	QSN-1ECO-S
GRAFIK Eye QS control unit	QSN-2ECO-S
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	LQSE-2ECO-D
myRoom Plus power module	

eldoLED DRIVER COMPATIBILITY

Power supply EA2 / LA2 Dimmer / Switch Control Manufacturer	Family/Model #
Busch-Jaeger	2112U-101
Jung	240-10
Leviton Lighting Controls	IP710-DLX
Lightolier Controls	ZP600FAM120
Lutron Electronics	Nova T® - NTFTV
Lutron Electronics	Div@® - DVTV
Lutron Electronics	Nova@® - NFTV
Merten	5729
Pass & Seymour	CD4FB-W
The Watt Stopper	DCLV1
Sensor Switch	nI0 EZ
Synergy	ISD BC
Power supply EA2 / LA2 Lighting Control Systems Manufacturer	Family/Model #
Lutron Electronics	GrafixEye® GRX-TVI w GRX3503
Lutron Electronics	Energy Savr Node™ - QSN-4T16-S
Lutron Electronics	TVM2 Module
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
ABB	SD/S 2.16.1

