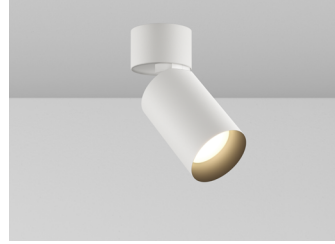


# CYLINDER 0 INTERNATIONAL SURFACE MOUNT

PROJECT NAME:	TYPE:
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Our best-selling cylinders keep getting better. Adjustable, fixed, and wallwash are all offered in a broad range of sizes, with lumens from 500 to almost 5000lm, standard 90° tilt, and more than a dozen finish options. Now, there's a fixture for anywhere you need to illuminate anything.



## ORDERING INFORMATION

CYLINDER	FIXTURE	RATING	CYLINDER FINISH	BAFFLE FINISH	CRI / WATTAGE	CCT	OPTIC (UGR)	MEDIA	POWER SUPPLY	MOUNTING
<b>CY0X</b>										<b>EXMP</b>
CY0X 48mm Ø	AD 90° Adjustable AS 90° Adjustable Shallow Canopy FB Fixed WW Wallwash Fixed	1 Dry/Damp (IP30) 2 Wet (IP65)	<b>POWDERCOAT FINISHES</b> WH White AG Satin Silver AU Cashmere Gold AB Architectural Bronze BB Burnt Bronze BK Black CF Custom Finish* <small>*Consult Factory</small> <b>ALUMINA FINISHES</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>FINISH IMAGES ON PAGE 2</b>	<b>POWDERCOAT FINISHES</b> WH White AG Satin Silver AU Cashmere Gold AB Architectural Bronze BB Burnt Bronze BK Black CF Custom Finish* <small>*Consult Factory</small> <b>ALUMINA FINISHES</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>FINISH IMAGES ON PAGE 2</b>	<b>STATIC WHITE</b> 80S13D 80+ CRI, 13 Watts 1198 lm delivered 90S13D 90+ CRI, 13 Watts 1015 lm delivered 95S13D 95+ CRI, 13 Watts 914 lm delivered <b>WARM DIM</b> 90W13D 90+ CRI, 13 Watts Incandescent Profile 764 lm delivered Halogen Profile 795 lm delivered <b>TUNABLE WHITE</b> 90T10D 90+ CRI, 10 Watts Warm Profile 660 lm delivered Cool Profile 581 lm delivered  SEE PAGE 4 FOR DETAILED PERFORMANCE CONFIGURATIONS AND WARM DIM PROFILE COMPARISON.	24 2400K* <small>*(90+CRI only)</small> 27 2700K 30 3000K 35 3500K 40 4000K  WL 2700K - 1800K WD 3000K - 1800K  TR 4000K - 1800K TH 5000K - 2700K	10 10°* (<10) <small>*(Uses 09H Wattage)</small> 15 15° (<10) 25 25° (<10) 35 35° (<13) 50 50° (<13)  WW Wallwash* <small>*(Required for WW)</small> AZ Adjustable Zoom* <small>*(AD/AS/FB only, 24°, 30°, 42°, and 48° beam spreads)</small> 25 25° (<10) 35 35° (<13) 50 50° (<13)  WW Wallwash* <small>*(Required for WW)</small> 15 15° (<10) 25 25° (<10) 35 35° (<13) 50 50° (<13)  WW Wallwash* <small>*(Required for WW)</small>  *SEE PAGE 4 FOR UGR VALUES	<b>STANDARD MEDIA</b> 4 Soft Focus Lens (SFL)* <small>*(Required for 10° optic)</small> <b>ALTERNATE MEDIA</b> 0 No Lens* <small>*(Not available for Warm Dim or Wet Location)</small> 2 Honey Comb Louver (HCL)* <small>*(Not available for Warm Dim or Wet Location)</small> 3 Clear Glass Lens (CGL)* <small>*(Not available for Warm Dim)</small> 5 Frosted Glass Lens (FGL) 6 Frosted Soft Focus Lens (FSFL) 7 Frosted Linear Spread Lens (FLSL) C Clear Glass Film w/ Honeycomb Louver S Soft Focus Film w/ Honeycomb Louver W Wallwash Lens* <small>*(Required for WW)</small>	<b>REMOTE (220-277V)</b> 2EG eldoLED, SOLOdrive 0.1% 0-10V, LOG <b>2EN</b> eldoLED, SOLOdrive 0.1% 0-10V, LIN <b>2ED</b> eldoLED, SOLOdrive 0.1% DALI, LOG <b>2LD</b> eldoLED, SOLOdrive 0.1% DALI, LIN  <b>TUNABLE WHITE REMOTE (220-277V)</b> 2DD eldoLED, DUALdrive 0.1% DALI, LOG	<b>EXMP</b> Export Mounting Plate Features 64mm diameter canopy

## PART NUMBER NOTES

- CY0X ships as e.g., CY0XAD1WHWH80S13D305041RMT
- Remote driver ships as e.g., PS-RMT-80S13D-2EG2
- Mounting part numbers listed on page 5



# CYLINDER 0 INTERNATIONAL SURFACE MOUNT

## ACCESSORIES

### REPLACEMENT MEDIA

Dry / Damp location only, consult factory for wet location replacements

- SFL-CY0X-03** Soft Focus Lens
- HCL-CY0X-03** Honeycomb Louver \*

\*(Not available for Warm Dim)

- CGL-CY0X-03** Clear Glass Lens \*

\*(Not available for Warm Dim)

- FGL-CY0X-03** Frosted Glass Lens
- FSFL-CY0X-03** Frosted Soft Focus Lens
- FLSL-CY0X-03** Frosted Linear Spread Lens
- CGL-HCL-CY0X-03** Clear Glass Film W/ Honeycomb Louver
- SFL-HCL-CY0X-03** Soft Focus Film W/ Honeycomb Louver

### STATIC WHITE REPLACEMENT OPTICS

- RO-35-15-S** 15° optic
- RO-35-25-S** 25° optic
- RO-35-35-S** 35° optic
- RO-35-50-S** 50° optic

### WARM DIM REPLACEMENT OPTICS

- RO-35-25-W** 25° optic
- RO-35-35-W** 35° optic
- RO-35-50-W** 50° optic

### TUNABLE WHITE REPLACEMENT OPTICS

- RO-35-15-T** 15° optic
- RO-35-25-T** 25° optic
- RO-35-35-T** 35° optic
- RO-35-50-T** 50° optic

### SUCTION CUP TOOL

- CYX-TOOL-SUCTION** Baffle removal tool, provided with every 5 fixtures

### 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
- 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

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

## POWDERCOAT FINISHES



## ALUMINA FINISHES BY LUCIFER LIGHTING™



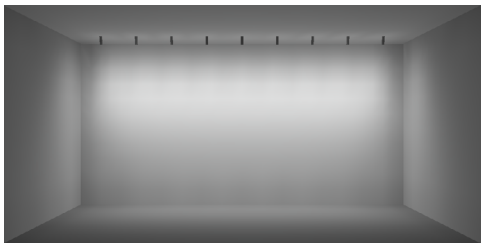
# CYLINDER 0 INTERNATIONAL SURFACE MOUNT

## WALLWASH DESIGN GUIDE



### 30" SETBACK / 30" ON CENTER SPACING

- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 21.92
- MAX / MIN: 4.65
- 9 FIXTURES / 25FT WALL SHOWN



### RECOMMENDED

### 36" SETBACK / 36" ON CENTER SPACING

- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 17.19
- MAX / MIN: 4.90
- 9 FIXTURES / 30FT WALL SHOWN



### 42" SETBACK / 42" ON CENTER SPACING

- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 15.81
- MAX / MIN: 3.98
- 9 FIXTURES / 35FT WALL SHOWN

## ADDITIONAL SETBACKS AND SPACINGS

ON CENTER SPACING	SETBACK		
	30"	36"	42"
30"	SHOWN ABOVE	AVERAGE FC: 20.07 MAX / MIN: 5.33	AVERAGE FC: 18.50 MAX / MIN: 6.02
36"	AVERAGE FC: 16.14 MAX / MIN: 5.60	SHOWN ABOVE	AVERAGE FC: 18.13 MAX / MIN: 4.24
42"	AVERAGE FC: 14.07 MAX / MIN: 5.45	AVERAGE FC: 14.94 MAX / MIN: 4.50	SHOWN ABOVE

**\*ALL DATA REFLECTS 90S13D WATTAGE PACKAGE**

# CYLINDER 0 INTERNATIONAL SURFACE MOUNT

## STATIC WHITE PERFORMANCE - 3000K

LUMEN PACKAGE	WATTAGE	10° OPTIC FIELD REDUCER		15° OPTIC SOFT FOCUS LENS		25° OPTIC SOFT FOCUS LENS		35° OPTIC SOFT FOCUS LENS		50° OPTIC SOFT FOCUS LENS		WALLWASH WALLWASH LENS	
		DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW
80S13D/09H	13	587	35	1205	92	1198	92	1126	86	1166	89	915	70
90S13D/09H	13	506	30	1021	78	1015	78	954	73	988	76	775	59
95S13D/09H	13	437	26	919	70	914	70	859	66	889	68	697	53
90W13DL (2700K-1800K)	13	-	-	-	-	764	58	708	54	736	56	489	38
90W13DD (3000K-1800K)	13	-	-	-	-	795	61	739	56	760	58	511	39
90T10DR (4000K-1800K)	10	-	-	649	67	660	68	609	63	660	68	514	53
90T10DH (5000K-2700K)	10	-	-	571	59	581	60	536	55	581	60	453	47

### OUTPUT MULTIPLIER

CCT	CCT SCALE
2400K	0.76
2700K	0.95
3000K	1.000
3500K	1.05
4000K	1.06

### MEDIA LIGHT LOSS FACTOR

MEDIA	LIGHT LOSS FACTOR
No Lens	1.05
CGL	0.98
SFL	1.00
FGL	0.86
FSFL	0.86
FLSL	0.80
HCL	0.73
SFL+HCL	0.73

Part L 75+ LPW configurations comply with residential Part L

### UNIFIED GLARE RATING

10° OPTIC FIELD REDUCER	15° OPTIC SOFT FOCUS LENS	25° OPTIC SOFT FOCUS LENS	35° OPTIC SOFT FOCUS LENS	50° OPTIC SOFT FOCUS LENS	WALLWASH WALLWASH LENS
<10	<10	<10	<13	<13	>19

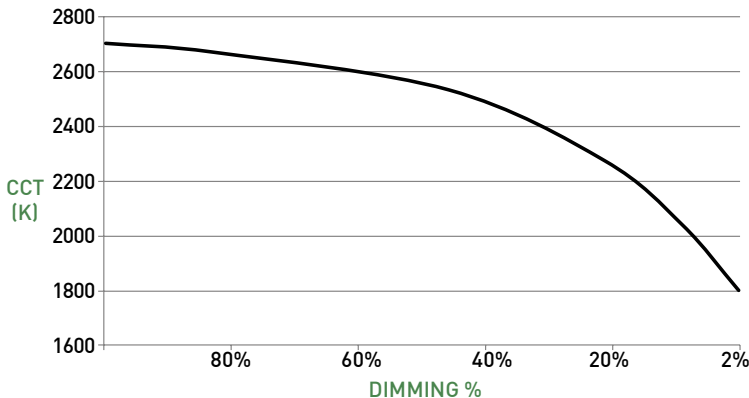
### TUNABLE WHITE MULTIPLIER

CCT	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

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

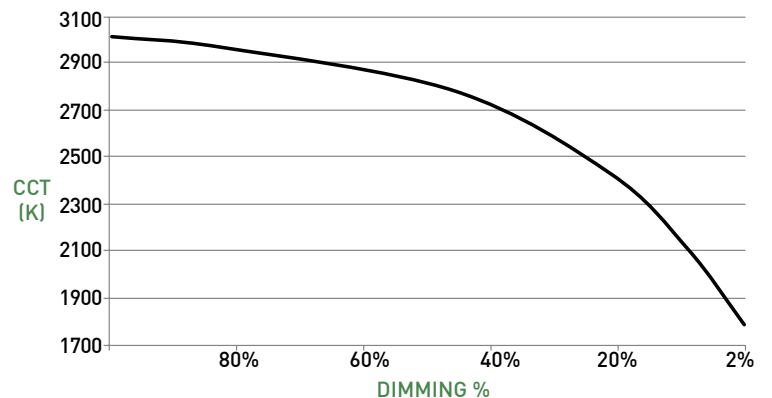
### INCANDESCENT DIMMING PROFILE

90W13DL 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)	764	611	535	382	153	76	15
Power (W)	13	10	9	7	3	1.3	0.3
Efficacy (LPW)	58	58	58	58	58	58	58



### HALOGEN DIMMING PROFILE

90W13DD 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)	795	636	557	398	159	80	16
Power (W)	13	10	9	7	3	1.3	0.3
Efficacy (LPW)	61	61	61	61	61	61	61

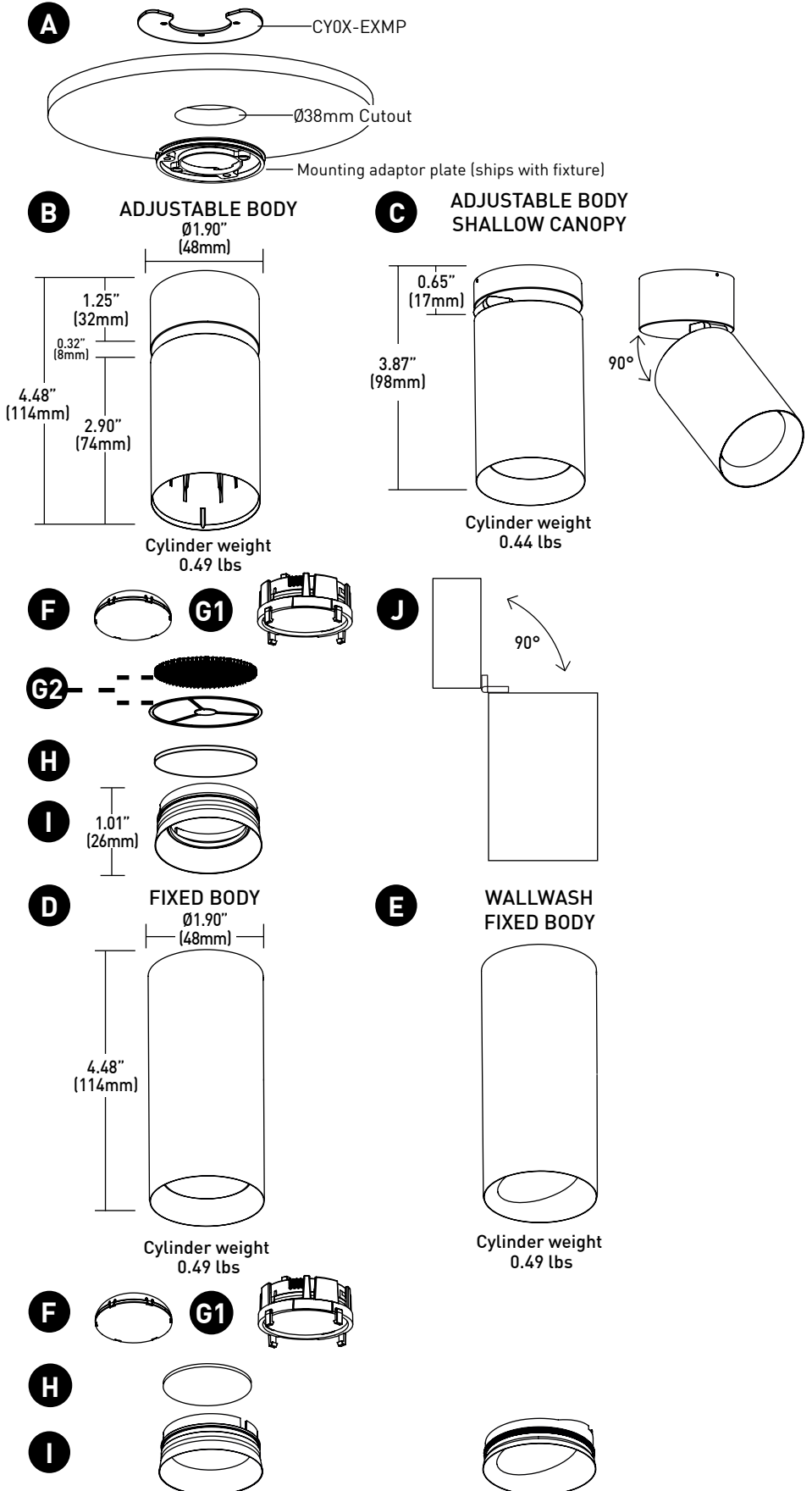


# CYLINDER 0 INTERNATIONAL SURFACE MOUNT

## CYLINDER ASSEMBLY

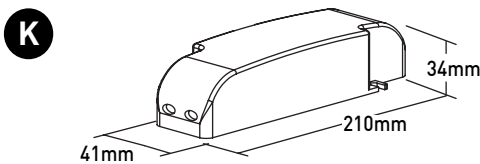
- A EXPORT MOUNTING PLATE**  
Export mounting plate (concealed) to be installed above ceiling substrate. Features minimalist 64mm diameter canopy.
- B ADJUSTABLE - STANDARD CANOPY**  
Aluminum fixture with 1.25" (32mm) depth canopy. Accommodates flat and sloped ceiling conditions. Provides 90° tilt and 365° rotation, concealing mounting hardware. Remote driver only.
- C ADJUSTABLE - SHALLOW CANOPY**  
Canopy accommodates flat and slope ceiling conditions. Conceals hidden mounting hardware. "AS" (90° tilt, 365° rotation) canopy features 0.65" (17mm) tall canopy, reducing overall height. Requires remote power supply.
- D FIXED BODY**  
Body with integrated heat sink and LED. Conceals mounting hardware. Remote driver only.
- E WALLWASH FIXED BODY**
- F OPTICS**  
Robust light engine with optimized optic pairing integrates Reflection, Refraction, and TIR offering 10°, 15°, 25°, 35° & 50° beams.
- G1 ADJUSTABLE ZOOM OPTIC**  
Proprietary optic integrates Refraction and TIR. Allows precision tuning to beam spreads of 24°, 30°, 36°, 42°, and 48°. Not available for Warm Dim.
- G2 10° FIELD REDUCER**  
Included with 10° optic. Reduces field angle by 30%
- H MEDIA**  
Cylinder accepts 2 media; soft focus lens, no lens, or wallwash lens standard depending on fixture type. Sealed in place for Wet locations.
- I BAFFLE**  
Die-cast baffle minimizes aperture glare and conceals view into fixture.
- J WALL-MOUNT**  
Cylinder may be wall mounted using any mounting option.

## DIMENSIONS / DRAWINGS



## REMOTE POWER SUPPLY

- K** Remote power supply provides additional driver options. See page 6 for maximum allowable wiring distance. Must be installed in an accessible location.



# CYLINDER 0 INTERNATIONAL SURFACE MOUNT

## TECHNICAL

### CONSTRUCTION

**Cylinder:** Machined aluminum body with integrated heat sink; painted finishes are granulated powder coat. Alumina finishes are anodized aluminum.  
**Remote Power Supply:** 22 Gauge galvanized steel.

### 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: 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.

### TUNABLE WHITE LED

3-Step MacAdam ellipse tunable white LED module available in 90+ CRI configuration. Features tuning range of 2700K to 5000K and 1800K to 4000K. Average rated lamp life of 50,000 hours. Driver assemblies are field-replaceable.

### POWER SUPPLY PERFORMANCE AND DIMMING INFORMATION

Power Supply	0-10V		DALI		
	2EG	2EN	2ED	2LD	2DD
Minimum °C	-20 °C	-20 °C	-20 °C	-20 °C	-20 °C
Maximum °C	40 °C	40 °C	40 °C	40 °C	40 °C
Dimming %	0.1%	0.1%	0.1%	0.1%	0.1%

Note: For EG and EN 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
2EG, 2EN, 2ED, 2LD, 2DD	-	-	118'	72'	46'

### WALLWASH SPACING

Recommended fixed spacing is 36" (914mm) on center spacing with 48" (1219mm) setback from wall plane.

### LISTING

Cylinders and drivers CE Listed for Dry / Damp and IP65 Wet locations. Integral drivers ENEC and CB Listed.

### DECLARE

LBC Red List Approved.

### PART L

Part L compliant for all 75+ LPW residential configurations.

### 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. Consult [website](#) for full warranty terms and conditions.

### CHANGE LOG

- 2/15/2024: PART L COMPLIANCE ADDED
- 3/15/2024: 10 DEGREE FIELD REDUCER ADDED, 10 DEGREE PERFORMANCE DATA UPDATED

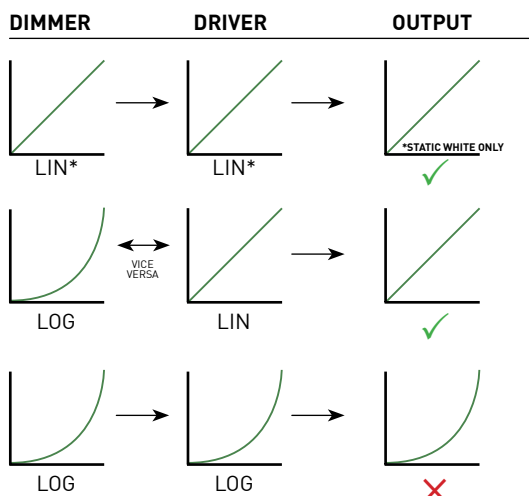
# CYLINDER 0 INTERNATIONAL SURFACE MOUNT

## DIMMING COMPATIBILITY

### eldoLED DRIVER COMPATIBILITY

Power supply <b>EG</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>EN</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