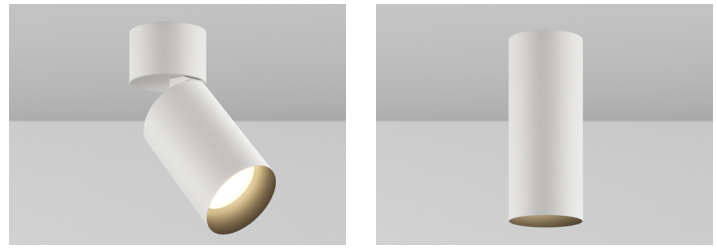


# CYLINDER 1 LVS SURFACE MOUNT

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

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	FUNCTION	RATING	CYLINDER FINISH	BAFFLE FINISH	CRI / WATTAGE PACKAGE	CCT	OPTIC (UGR)	MEDIA	POWER SUPPLY	MOUNTING
<b>CY1X</b>									<b>LVS</b>	
<b>CY1X 2.5" Ø</b>	<b>AD</b> 90° Adjustable <b>AS</b> 90° Adjustable Shallow Canopy* <small>*(Remote driver only)</small> <b>AW</b> Adjustable Wallwash <b>FB</b> Fixed <b>WW</b> Wallwash Fixed	1 Dry / Damp (IP30) 2 Wet (IP65)	<b>POWDERCOAT FINISHES</b> <b>WH</b> White <b>AG</b> Satin Silver <b>AU</b> Cashmere Gold <b>AB</b> Architectural Bronze <b>BB</b> Burnt Bronze <b>BK</b> Black <b>CF</b> Custom Finish* <small>*(Consult Factory)</small> <b>ALUMINA FINISHES</b> <b>01</b> Brushed Obsidian <b>02</b> Matte Obsidian <b>03</b> Brushed Dark Patinated Bronze <b>04</b> Matte Dark Patinated Bronze <b>05</b> Brushed Aged Aluminum <b>06</b> Matte Aged Aluminum <b>07</b> Brushed Cast Brass <b>08</b> Matte Cast Brass <b>09</b> Brushed Light Patinated Bronze <b>10</b> Matte Light Patinated Bronze <b>FINISH IMAGES ON PAGE 2</b>	<b>POWDERCOAT FINISHES</b> <b>WH</b> White <b>AG</b> Satin Silver <b>AU</b> Cashmere Gold <b>AB</b> Architectural Bronze <b>BB</b> Burnt Bronze <b>BK</b> Black <b>CF</b> Custom Finish* <small>*(Consult Factory)</small> <b>ALUMINA FINISHES</b> <b>01</b> Brushed Obsidian <b>02</b> Matte Obsidian <b>03</b> Brushed Dark Patinated Bronze <b>04</b> Matte Dark Patinated Bronze <b>05</b> Brushed Aged Aluminum <b>06</b> Matte Aged Aluminum <b>07</b> Brushed Cast Brass <b>08</b> Matte Cast Brass <b>09</b> Brushed Light Patinated Bronze <b>10</b> Matte Light Patinated Bronze <b>FINISH IMAGES ON PAGE 2</b>	<b>STATIC WHITE</b> <b>80S11A</b> 80+ CRI, 11 Watts 1104 lm delivered <b>80S17A</b> 80+ CRI, 17 Watts 1643 lm delivered <b>90S11A</b> 90+ CRI, 11 Watts 952 lm delivered <b>90S17A</b> 90+ CRI, 17 Watts 1416 lm delivered <b>97S11A</b> 97+ CRI, 11 Watts 838 lm delivered <b>97S17A</b> 97+ CRI, 17 Watts 1246 lm delivered <b>WARM DIM</b> <b>90W18A</b> 90+ CRI, 18 Watts Incandescent Profile 1216 lm delivered Halogen Profile 1202 lm delivered *SEE PAGE 5 FOR DETAILED PERFORMANCE CONFIGURATIONS AND WARM DIM PROFILE COMPARISON. <b>TUNABLE WHITE (REMOTE DRIVER ONLY)</b> <b>90T17A</b> 90+ CRI, 17 Watts Warm Profile 1291 lm delivered Cool Profile 1251 lm delivered *ALL DELIVERED LUMEN OUTPUTS AND REFLECT 3000K PAIRED WITH 60° OPTIC AND SOFT FOCUS LENS.	<b>24</b> 2400K* <small>*(90+CRI only)</small> <b>27</b> 2700K <b>30</b> 3000K <b>35</b> 3500K <b>40</b> 4000K  <b>WL</b> 2700K - 1800K <b>WD</b> 3000K - 1800K  <b>TR</b> 4000K - 1800K <b>TH</b> 5000K - 2700K	<b>10</b> 10° (<16) <small>*(17 Watts only)</small> <b>15</b> 15° (<16) <b>20</b> 20° (<10) <b>25</b> 25° (<10) <b>40</b> 40° (<10) <b>60</b> 60° (<16)  <b>WW</b> Wallwash* <small>*(Required for WW &amp; AW fixture)</small>  <b>20</b> 20° (<10) <b>25</b> 25° (<10) <b>40</b> 40° (<10) <b>60</b> 60° (<16)  <b>WW</b> Wallwash* <small>*(Required for WW &amp; AW fixture)</small>	<b>STANDARD MEDIA</b> <b>4</b> Soft Focus Lens (SFL) <small>*(Required for 10° optic)</small> <b>ALTERNATE MEDIA</b> <b>0</b> No Lens* <small>*(Not available for Warm Dim or Wet Location)</small> <b>2</b> Honey Comb Louver (HCL)* <small>*(Not available for Warm Dim or Wet Location)</small> <b>3</b> Clear Glass Lens (CGL)* <small>*(Not available for Warm Dim)</small> <b>5</b> Frosted Glass Lens (FGL) <b>6</b> Frosted Soft Focus Lens (FSFL) <b>7</b> Frosted Linear Spread Lens (FLSL) <b>C</b> Clear Glass Film w/ Honeycomb Louver <b>S</b> Soft Focus Film w/ Honeycomb Louver <b>W</b> Wallwash Lens* <small>*(Required for WW and AW fixture)</small>	<b>LVS</b> Low Voltage System	<b>ROUGH-IN</b> <b>JBMP</b> 4" Sq. or 4/0 Junction Box Mounting Plate  <b>FINISH OUT</b> <b>CMJB</b> * 1/2" and 3/4" Conduit Ceiling Mount Junction Box* <small>*(Available in powdercoat finishes. Alumina finish fixtures ship with Black powdercoat CMJB.)</small> <b>SMK3</b> 3/0 Surface Mount Kit* <b>SMK4</b> 4/0 Surface Mount Kit* <small>*(Dry/Damp rated)</small>

### PART NUMBER NOTES




- CY1X ships as e.g., CY1XAD1WHWH80S17A304041LVS
- Mounting part numbers listed on page 7

# CYLINDER 1 LVS SURFACE MOUNT

## APPLICATION NOTES

- Lucifer Lighting will not supply a fixture with a POE node or power supply inside the fixture. This allows for easier site install with nodes of 2 or more outputs.
- Consult node manufacturer for maximum remote wiring distances.
- Fixture features 18 Gauge wiring.
- Wiring connections are made on the fixture using customer supplied connectors, ex. wire nuts, push-in connectors, or terminal blocks.
- Confirm node compatibility with factory if it is not listed.
- Customers are responsible for ensuring POE node drive current is set to correct values shown below.
- Customers must ensure voltage range of the proposed POE node encompasses the fixtures complete Vf range, both maximum and minimum. If assistance is required contact LLC rep or factory.

## NODE COMPATIBILITY

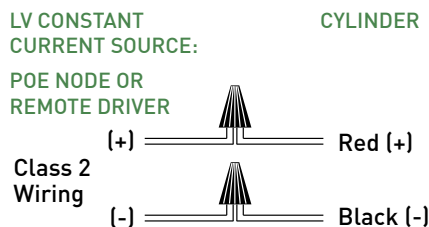
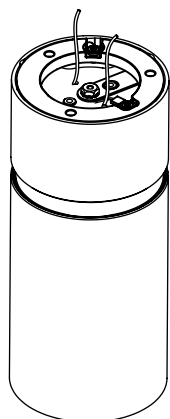
Manufacturer	Model Number
 Igor® Enabling Smart Buildings™	NP50-60-C-F-5
 molex	180996-1001 180996-1002 180996-2001 180996-2002
 PLATFORMATICS	1 Channel Node, POE-LN2-1U-E 2 Channel Node, POE-LN2-2U-E 4 Channel Node, POE-LN2-4U-E

## DRIVE CURRENT SPECIFICS

	80S		90S		97S		90W
	11A	17A	11A	17A	11A	17A	18A
Minimum Vf	30.5	30.5	30.5	30.5	30.5	30.5	30.5
Maximum Vf	39	39	39	39	39	39	39
Current mA	250	400	250	400	250	400	400
Wattage W	8.4	13.9	8.4	13.9	8.4	13.9	13.8

	10 DEGREE OPTIC		
	80S17C	90S17C	97S17C
Minimum Vf	30.5	30.5	30.5
Maximum Vf	39	39	39
Current mA	300	300	300
Wattage W	15.5	15.5	15.5

## WIRING DIAGRAM



# CYLINDER 1 LVS SURFACE MOUNT

## ACCESSORIES

### REPLACEMENT MEDIA

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

- SFL-CY1X-03** Soft Focus Lens
- HCL-CY1X-03** Honeycomb Louver \*

\*(Not available for Warm Dim)

- CGL-CY1X-03** Clear Glass Lens \*

\*(Not available for Warm Dim)

- FGL-CY1X-03** Frosted Glass Lens
- FSFL-CY1X-03** Frosted Soft Focus Lens
- FLSL-CY1X-03** Frosted Linear Spread Lens
- CGL-HCL-CY1X-03** Clear Glass Film W/ Honeycomb Louver
- SFL-HCL-CY1X-03** Soft Focus Film W/ Honeycomb Louver

### STATIC WHITE REPLACEMENT OPTICS

- RO-50-15-S** 15° optic
- RO-50-20-S** 20° optic
- RO-50-25-S** 25° optic
- RO-50-40-S** 40° optic
- RO-50-60-S** 60° optic

### WARM DIM REPLACEMENT OPTICS

- RO-50-20-W** 20° optic
- RO-50-25-W** 25° optic
- RO-50-40-W** 40° optic
- RO-50-60-W** 60° optic

### TUNABLE WHITE REPLACEMENT OPTICS

- RO-50-15-T** 15° optic
- RO-50-20-T** 20° optic
- RO-50-25-T** 25° optic
- RO-50-40-T** 40° optic
- RO-50-60-T** 60° optic

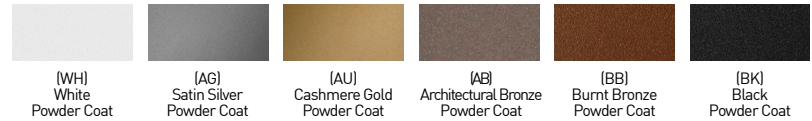
### EMERGENCY LIGHTING - REMOTE MOUNT ONLY

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
- 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

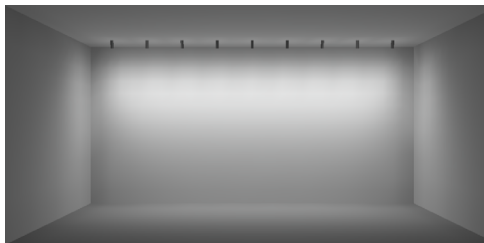


## ALUMINA FINISHES BY LUCIFER LIGHTING™



# CYLINDER 1 LVS SURFACE MOUNT

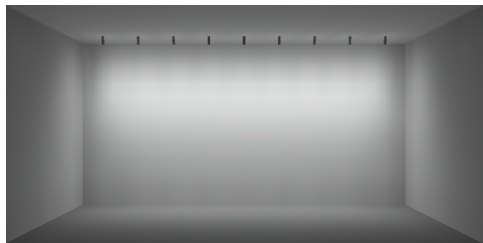
## WALLWASH DESIGN GUIDE



### 10° TILT

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

- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 24.45
- MAX / MIN: 4.85
- 9 FIXTURES / 25FT WALL SHOWN



### RECOMMENDED

#### 15° TILT

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

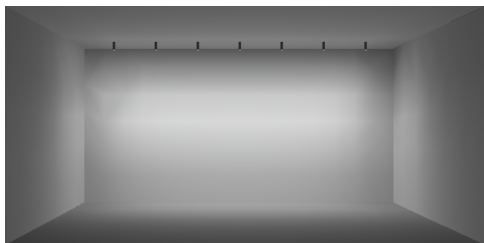
- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 21.75
- MAX / MIN: 4.35
- 9 FIXTURES / 30FT WALL SHOWN



### 20° TILT

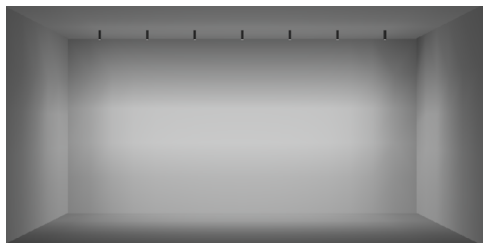
#### 42" SETBACK / 42" ON CENTER SPACING

- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 19.68
- MAX / MIN: 4.03
- 9 FIXTURES / 35FT WALL SHOWN



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

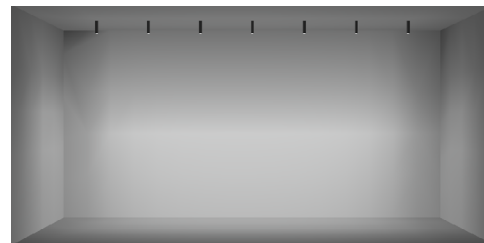
- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 23.46
- MAX / MIN: 4.88
- 9 FIXTURES / 25FT WALL SHOWN



### RECOMMENDED

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

- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 18.62
- MAX / MIN: 4.76
- 9 FIXTURES / 30FT WALL SHOWN



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

- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 15.07
- MAX / MIN: 4.90
- 9 FIXTURES / 35FT WALL SHOWN

## ADDITIONAL SETBACKS AND SPACINGS

ON CENTER SPACING	SETBACK / TILT			ON CENTER SPACING	SETBACK		
	30" / 10°	36" / 15°	42" / 20°		30"	36"	42"
30"	SHOWN ABOVE	AVERAGE FC: 25.42 MAX / MIN: 4.36	AVERAGE FC: 26.36 MAX / MIN: 4.14	42"	SHOWN ABOVE	AVERAGE FC: 20.84 MAX / MIN: 4.90	AVERAGE FC: 18.65 MAX / MIN: 5.04
36"	AVERAGE FC: 20.87 MAX / MIN: 4.97	SHOWN ABOVE	AVERAGE FC: 22.56 MAX / MIN: 4.08	48"	AVERAGE FC: 20.74 MAX / MIN: 4.66	SHOWN ABOVE	AVERAGE FC: 16.64 MAX / MIN: 5.04
42"	AVERAGE FC: 18.21 MAX / MIN: 5.17	AVERAGE FC: 18.94 MAX / MIN: 4.39	SHOWN ABOVE	54"	AVERAGE FC: 18.75 MAX / MIN: 4.75	AVERAGE FC: 16.82 MAX / MIN: 4.68	SHOWN ABOVE

**\*ALL DATA REFLECTS 90S17A WATTAGE PACKAGE**

# CYLINDER 1 LVS SURFACE MOUNT

## STATIC WHITE PERFORMANCE - 3000K

LUMEN PACKAGE	WATTS	10° OPTIC SOFT FOCUS LENS		15° OPTIC SOFT FOCUS LENS		20° OPTIC SOFT FOCUS LENS		25° OPTIC SOFT FOCUS LENS		40° OPTIC SOFT FOCUS LENS		60° OPTIC SOFT FOCUS LENS		WALLWASH WALLWASH LENS		ADJ. WALLWASH WALLWASH LENS	
		DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW
		80S11A	11	-	-	891	76	1080	98	1088	98	1002	91	1104	100	1160	105
80S17A/C	17	587	35	1451	73	1623	95	1624	95	1495	88	1643	96	1776	104	1357	79
90S11A	11	-	-	846	76	931	84	938	85	864	78	952	86	1000	90	783	71
90S17A/C	17	506	30	1251	73	1399	82	1400	82	1291	75	1416	83	1531	90	1170	68
97S11A	11	-	-	744	67	819	74	825	75	760	69	838	76	880	80	689	62
97S17A/C	17	437	26	1101	64	1231	72	1232	72	1136	66	1246	73	1347	79	1030	60
90W18AL (2700K-1800K)	18	-	-	-	-	1049	61	1023	60	930	54	997	58	1082	63	844	46
90W18AD (3000K-1800K)	18	-	-	-	-	1039	61	1014	59	934	54	979	57	1122	66	875	48
90T17ATR (4000K-1800K)	17	-	-	1112	65	1230	72	1234	72	1157	68	1291	75	1192	70	994	58
90T17ATH (5000K-2700K)	17	-	-	1100	64	1213	71	1215	71	1174	69	1251	73	1178	69	982	57

### OUTPUT MULTIPLIER

CCT	CCT SCALE
2400K	0.76
2700K	0.957
3000K	1.000
3500K	1.019
4000K	1.030

### MEDIA LIGHT LOSS FACTOR

MEDIA	LIGHT LOSS FACTOR
No Lens	1.07
CGL	0.99
SFL	1.00
FGL	0.90
FSFL	0.84
FLSL	0.85
HCL	0.68
SFL+HCL	0.63

### UNIFIED GLARE RATING

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

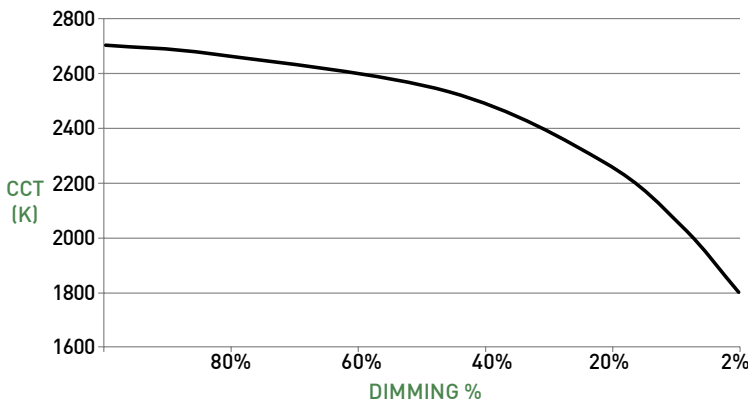
### TUNABLE WHITE MULTIPLIER

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 - 60° OPTIC

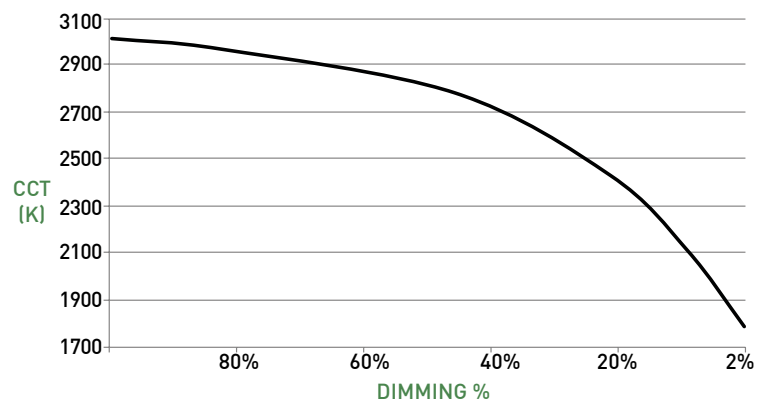
### INCANDESCENT DIMMING PROFILE

90W18AL 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)	1216	973	851	608	243	122	24
Power (W)	18	14	13	9	4	2	0.4
Efficacy (LPW)	67	67	67	67	67	67	67



### HALOGEN DIMMING PROFILE

90W18AD 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)	1202	962	841	601	240	120	24
Power (W)	18	14	13	9	4	2	0.4
Efficacy (LPW)	66	66	66	66	66	66	66



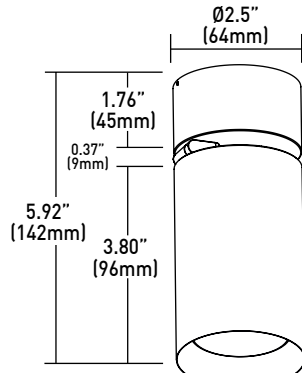
# CYLINDER 1 LVS SURFACE MOUNT

## CYLINDER ASSEMBLY

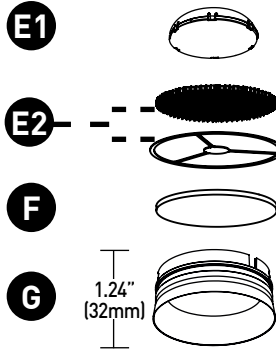
- A ADJUSTABLE - STANDARD CANOPY**  
Die-cast canopy accommodates flat and sloped ceiling conditions. Conceals hidden mounting hardware. "AD" (90° tilt, 365° rotation) canopy features 1.76" (45mm) tall canopy. Available with integral or remote driver.
- B ADJUSTABLE - SHALLOW CANOPY**  
Die-cast canopy 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.
- C FIXED BODY**  
Body with integrated heat sink and LED. Conceals mounting hardware. Power supply may be integral or remote mount.
- D WALLWASH FIXED BODY**
- E1 OPTICS**  
Robust light engine with optimized optic pairing integrates Reflection, Refraction, and TIR offering 10°, 15°, 20°, 25°, 40° & 60° beams.
- E2 10° FIELD REDUCER**  
Included with 10° optic. Reduces field angle by 10%
- F MEDIA**  
Cylinder accepts 2 media (one lens and one film). Soft focus lens, no lens, or wallwash lens standard depending on fixture type. Lens sealed in place for Wet location.
- G BAFFLE**  
Die-cast baffle minimizes aperture glare and conceals view into fixture.
- H WALL-MOUNT**  
Cylinder may be wall mounted using any mounting option.

## DIMENSIONS / DRAWINGS

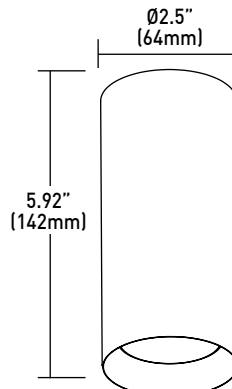
**A ADJUSTABLE BODY STANDARD CANOPY**



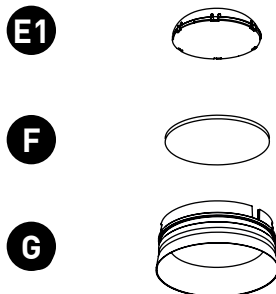
Cylinder weight  
0.90 lbs



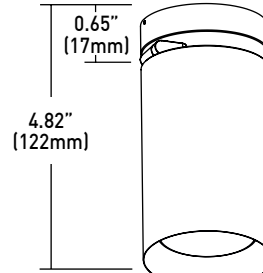
**C FIXED BODY**



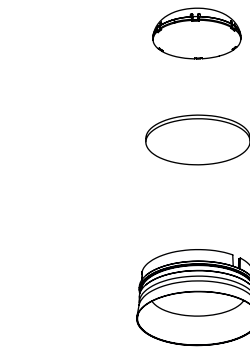
Cylinder weight  
0.90 lbs



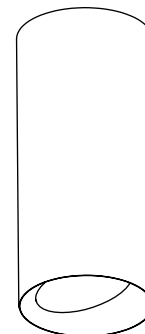
**B ADJUSTABLE BODY SHALLOW CANOPY**



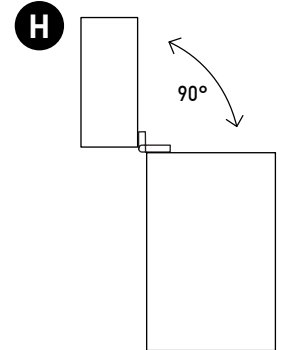
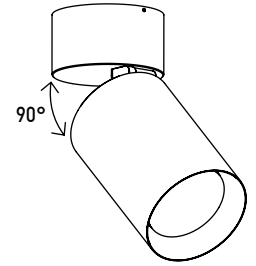
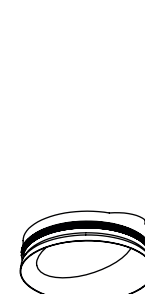
Cylinder weight  
0.85 lbs



**D WALLWASH FIXED BODY**



Cylinder weight  
0.90 lbs

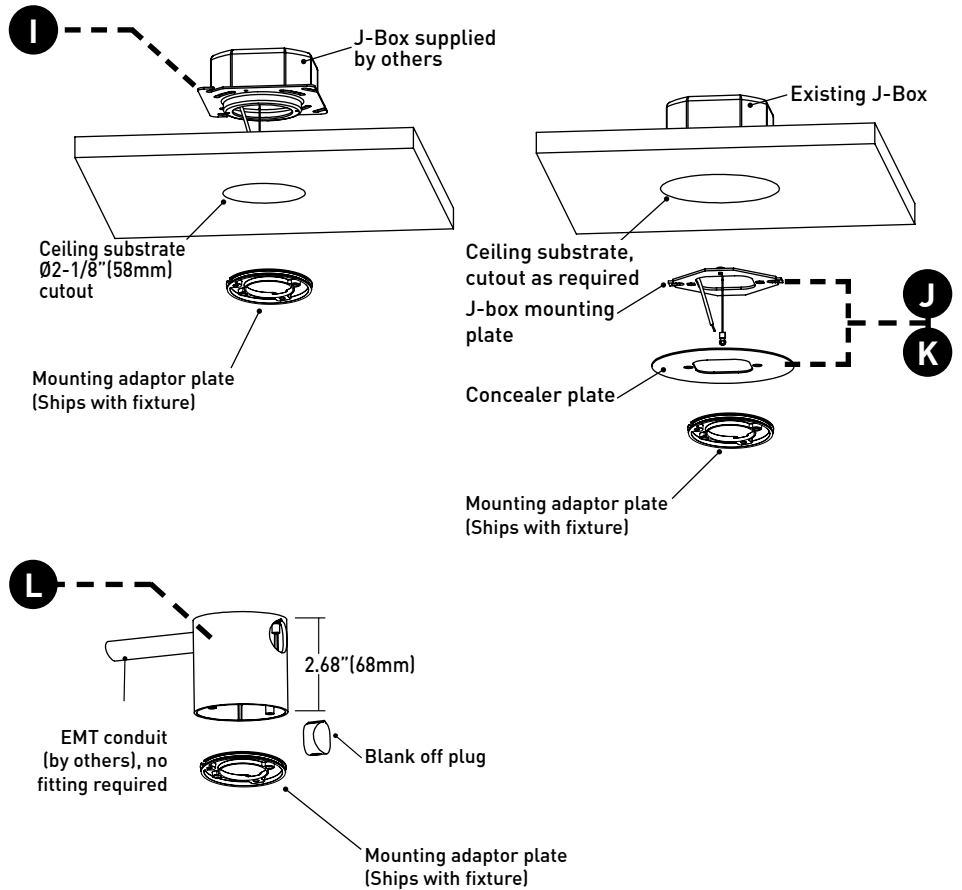


# CYLINDER 1 LVS SURFACE MOUNT

## MOUNTING

- I 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.  
Part Number - CY1X-JBMP
- J 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.  
Part Number - CY1X-SMK-3/0-(FINISH)
- K 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.  
Part Number - CY1X-SMK-4/0-(FINISH)
- L 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.  
Part Number - CY1X-CMJB-(FINISH)

## DIMENSIONS / DRAWINGS



## MOUNTING NOTES

- CY1X-JBMP and CY1X-SMK-3/0 & 4/0 not recommended for use with pancake style j-box.

# CYLINDER 1 LVS SURFACE MOUNT

## TECHNICAL

### CONSTRUCTION

**Cylinder:** Die-cast aluminum body with integrated heat sink; painted finishes are granulated powder coat. Alumina finishes are anodized aluminum.

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

### 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.

### WALLWASH SPACING AND TILT

Adjustable Wallwash Cylinder must be tilted to achieve wallwashing effect. Recommended adjustable spacing is 36" (914mm) on center with 36" (914mm) setback from wall plane with 15° tilt. Recommended fixed spacing is 36" (914mm) on center spacing with 48" (1219mm) setback from wall plane.

### 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 UL2108 standard for Dry / Damp (IP30) and Wet (IP65) location. Buy American Act compliant.

### DECLARE

LBC Red List Approved.

### 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

- 3/15/2024: 10 DEGREE FIELD REDUCER ADDED, 10 DEGREE PERFORMANCE DATA UPDATED