ROADWAY LRL4 32 LED – TYPE M

AUTHORIZED BY:	
NAME:	DATE:

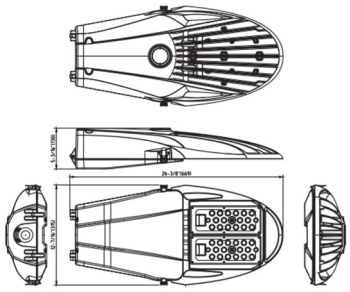
LRL4 LED Roadway Light

High Efficacy up to 125 lm/W and up to 75% in energy savings, available in 28W-235W configurations.

APPLICATIONS

- Roadway
- Parking
- Parks & Recreation
- Ports

DIMENSIONS & WEIGHT	
PRODUCT LINE	LRL4-M
LENGTH (cm)	66.9
WIDTH (cm)	31.5
HEIGHT (cm)	13
NET WEIGHT (Kg)	8.5
PCS / CARTON	1
CARTON WEIGHT (Kg)	10.5



ORDERING INFORMATION

CNX-LRL4					032	M			
PRODUCT TYPE	INPUT VOLTAGE	SECONDARY OPTIC		COLOR TEMP	NUMBER OF LEDs	LUMINAIRE SIZE	CONTROL	FIXTURE COLOR	DRIVE CURRENT
CNX-LRL4	**P1** – 120~277 VAC **P2** – 347~480 VAC	**2** – TYPE II **3** – TYPE III **5** – TYPE V	**S** – SHORT **VSA** – VERY SHORT A **VSB** – VERY SHORT B **M** – MEDIUM **MB** – MEDIUM B **W** – WIDE	**30** – 3000K **40** – 4000K **50** – 5000K	**032** – 32 LEDs	**M** – 2 MODULE	**CTR** – CONX CONTROL **XX7** – 7 PIN RECEPTACLE **PC7** – PHOTOCELL + 7 PIN RECEPTACLE **XXX** – NO CONTROL	**GRY** – GREY **BLK** – BLACK **BRZ** – BRONZE **WHT** – WHITE **CST** – CUSTOM	**525**– 525 mA **700**– 700 mA **1050**– 1050 mA **1400**– 1400 mA **CST**– CUSTOM

PRODUCT SPECIFICATIONS

Construction Characteristics:

- Single die-cast aluminum housing (Grey)
- Tool-less access and locking mechanism
- Passive Thermal Management
- Adjustable +/- 5° vertical tilt step arm holder
- 2-Axis bubble level
- LED Engine IP 65 – suitable for outdoor use
- Available with 5 or 7-Pin ANSI 136.41 receptacle
- Self-cleaning heat sink design
- Pole mount (OD 1.66" – 2.375")

Optical Characteristics:

- CRI (Color Rendering Index): >75

Electrical Characteristics:

- Input Voltage: 120 ~ 277 VAC or 347-480 VAC, 50/60 Hz
- Power Factor: >0.9 at full load
- THD = <20%
- Operating Temperature Range: -40 ~ +60C
- Built in 10kv/10kA protection
- Optional Surge Protection: 20kv/20kA

PRODUCT OPTIONS

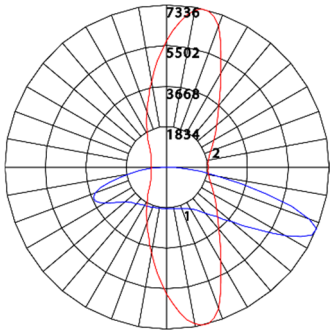
ADDITIONAL SURGE PROTECTION	DC DRIVER
20K-P – 20KV/KA PARALLEL **20K-S** – 20KV/KA SERIES **XXX** – NO SURGE PROTECTION	**DC-525** – DC-DC DRIVER / 525 mA **DC-700**– DC-DC DRIVER / 700 mA **DC-1050** – DC-DC DRIVER / 1050 mA

ELECTRICAL DATA

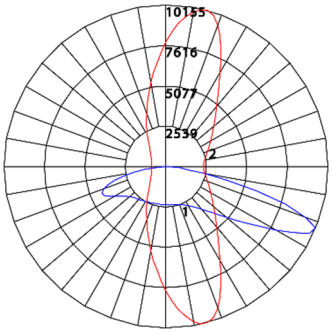
NUMBER LEDS	SYSTEM WATTAGE	LUMEN OUTPUT	DRIVE CURRENT	EFFICACY
32 – 32 LEDS	110 WATTS	12,970 LUMENS	1050 mA	117 LM/W
	165 WATTS	16,500 LUMENS	1500 mA	100 LM/W

ROADWAY LRL4 32 LED – TYPE M

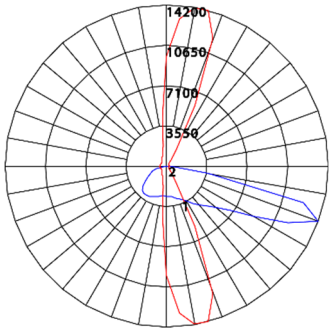
POLAR CANDELA CURVE	POLAR CANDELA CURVE	POLAR CANDELA CURVE	POLAR CANDELA CURVE
LRL4-2M-32LED-110W	LRL4-2M-32LED-165W	LRL4-2MB-32LED-110W	LRL4-2MB-32LED-165W



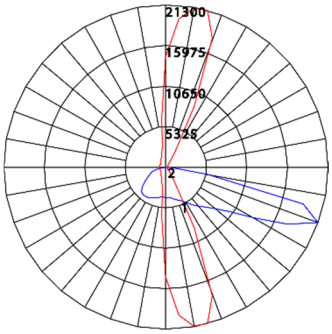
Vertical Plane Through: 77.5 – 257.5 Horizontal
Horizontal Cone Through: 67.5 Vertical
Maximum Candela = 7336 at 75 H 67.5 V
BUG Rating: B3 – U0 – G3



Vertical Plane Through: 75 - 255 Horizontal
Horizontal Cone Through: 67.5 Vertical
Maximum Candela = 10555 at 75 H 67.5 V
BUG Rating: B3 – U0 – G3

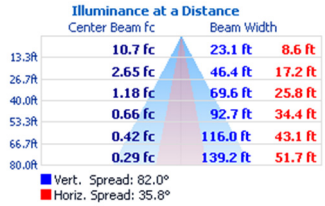


Vertical Plane Through: 75 - 255 Horizontal
Horizontal Cone Through: 67.5 Vertical
Maximum Candela = 14200 at 75 H 70 V
BUG Rating: B3 – U0 – G3



Vertical Plane Through: 75 - 255 Horizontal
Horizontal Cone Through: 67.5 Vertical
Maximum Candela = 21300 at 75 H 70 V
BUG Rating: B3 – U0 – G3

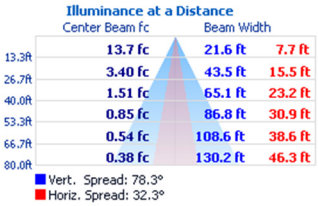
ILLUMINANCE AT DISTANCE	ILLUMINANCE AT DISTANCE	ILLUMINANCE AT DISTANCE	ILLUMINANCE AT DISTANCE
LRL4-2M-32LED-110W	LRL4-2M-32LED-165W	LRL4-2MB-32LED-110W	LRL4-2MB-32LED-165W



Illuminance at a Distance

	Center Beam fc	Beam Width	
13.3ft	10.7 fc	23.1 ft	8.6 ft
26.7ft	2.65 fc	46.4 ft	17.2 ft
40.0ft	1.18 fc	69.6 ft	25.8 ft
53.3ft	0.66 fc	92.7 ft	34.4 ft
66.7ft	0.42 fc	116.0 ft	43.1 ft
80.0ft	0.29 fc	139.2 ft	51.7 ft

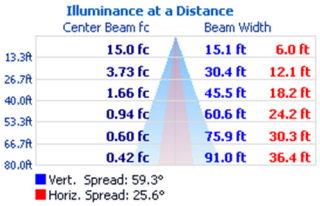
Vert. Spread: 82.0°
Horiz. Spread: 35.8°



Illuminance at a Distance

	Center Beam fc	Beam Width	
13.3ft	13.7 fc	21.6 ft	7.7 ft
26.7ft	3.40 fc	43.5 ft	15.5 ft
40.0ft	1.51 fc	65.1 ft	23.2 ft
53.3ft	0.85 fc	86.8 ft	30.9 ft
66.7ft	0.54 fc	108.6 ft	38.6 ft
80.0ft	0.38 fc	130.2 ft	46.3 ft

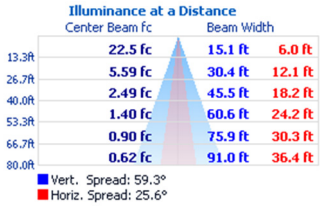
Vert. Spread: 78.3°
Horiz. Spread: 32.3°



Illuminance at a Distance

	Center Beam fc	Beam Width	
13.3ft	15.0 fc	15.1 ft	6.0 ft
26.7ft	3.73 fc	30.4 ft	12.1 ft
40.0ft	1.66 fc	45.5 ft	18.2 ft
53.3ft	0.94 fc	60.6 ft	24.2 ft
66.7ft	0.60 fc	75.9 ft	30.3 ft
80.0ft	0.42 fc	91.0 ft	36.4 ft

Vert. Spread: 59.3°
Horiz. Spread: 25.6°

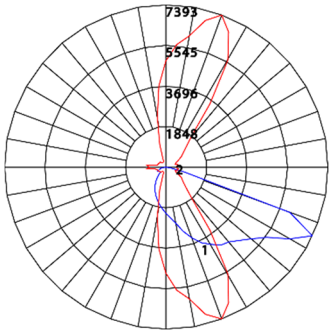


Illuminance at a Distance

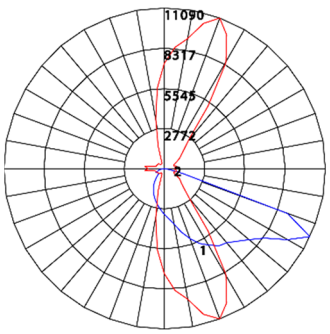
	Center Beam fc	Beam Width	
13.3ft	22.5 fc	15.1 ft	6.0 ft
26.7ft	5.59 fc	30.4 ft	12.1 ft
40.0ft	2.49 fc	45.5 ft	18.2 ft
53.3ft	1.40 fc	60.6 ft	24.2 ft
66.7ft	0.90 fc	75.9 ft	30.3 ft
80.0ft	0.62 fc	91.0 ft	36.4 ft

Vert. Spread: 59.3°
Horiz. Spread: 25.6°

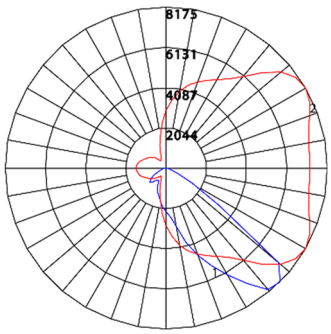
POLAR CANDELA CURVE	POLAR CANDELA CURVE	POLAR CANDELA CURVE	POLAR CANDELA CURVE
LRL4-2S-32LED-110W	LRL4-2S-32LED-165W	LRL4-2VSA-32LED-110W	LRL4-2VSA-32LED-165W



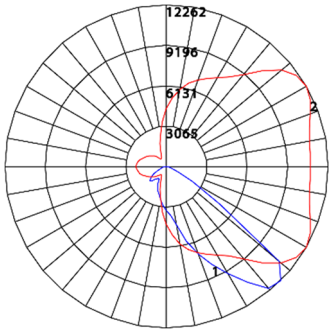
Vertical Plane Through: 70 – 250 Horizontal
Horizontal Cone Through: 70 Vertical
Maximum Candela = 7393 at 70 H 65 V
BUG Rating: B2 – U0 – G2



Vertical Plane Through: 70 – 250 Horizontal
Horizontal Cone Through: 65 Vertical
Maximum Candela = 11090 at 70 H 65 V
BUG Rating: B2 – U0 – G2

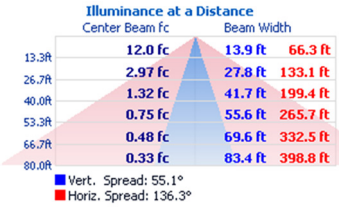


Vertical Plane Through: 30 – 210 Horizontal
Horizontal Cone Through: 70 Vertical
Maximum Candela = 8175 at 30 H 45 V
BUG Rating: B2 – U0 – G2



Vertical Plane Through: 30 – 210 Horizontal
Horizontal Cone Through: 70 Vertical
Maximum Candela = 12262 at 30 H 45 V
BUG Rating: B3 – U0 – G3

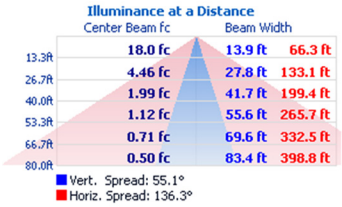
ILLUMINANCE AT DISTANCE	ILLUMINANCE AT DISTANCE	ILLUMINANCE AT DISTANCE	ILLUMINANCE AT DISTANCE
LRL4-2S-32LED-110W	LRL4-2S-32LED-165W	LRL4-2VSA-32LED-110W	LRL4-2VSA-32LED-165W



Illuminance at a Distance

	Center Beam fc	Beam Width	
13.3ft	12.0 fc	13.9 ft	66.3 ft
26.7ft	2.97 fc	27.8 ft	133.1 ft
40.0ft	1.32 fc	41.7 ft	199.4 ft
53.3ft	0.75 fc	55.6 ft	265.7 ft
66.7ft	0.48 fc	69.6 ft	332.5 ft
80.0ft	0.33 fc	83.4 ft	398.8 ft

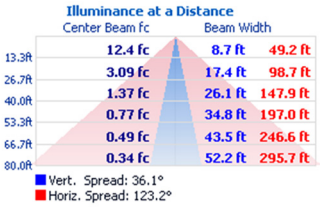
Vert. Spread: 55.1°
Horiz. Spread: 136.3°



Illuminance at a Distance

	Center Beam fc	Beam Width	
13.3ft	18.0 fc	13.9 ft	66.3 ft
26.7ft	4.46 fc	27.8 ft	133.1 ft
40.0ft	1.99 fc	41.7 ft	199.4 ft
53.3ft	1.12 fc	55.6 ft	265.7 ft
66.7ft	0.71 fc	69.6 ft	332.5 ft
80.0ft	0.50 fc	83.4 ft	398.8 ft

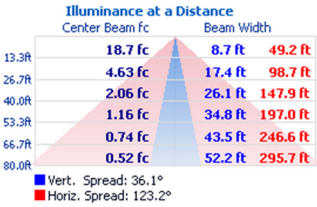
Vert. Spread: 55.1°
Horiz. Spread: 136.3°



Illuminance at a Distance

	Center Beam fc	Beam Width	
13.3ft	12.4 fc	8.7 ft	49.2 ft
26.7ft	3.09 fc	17.4 ft	98.7 ft
40.0ft	1.37 fc	26.1 ft	147.9 ft
53.3ft	0.77 fc	34.8 ft	197.0 ft
66.7ft	0.49 fc	43.5 ft	246.6 ft
80.0ft	0.34 fc	52.2 ft	295.7 ft

Vert. Spread: 36.1°
Horiz. Spread: 123.2°



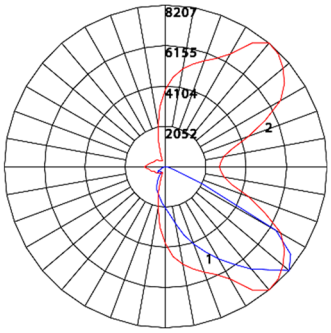
Illuminance at a Distance

	Center Beam fc	Beam Width	
13.3ft	18.7 fc	8.7 ft	49.2 ft
26.7ft	4.63 fc	17.4 ft	98.7 ft
40.0ft	2.06 fc	26.1 ft	147.9 ft
53.3ft	1.16 fc	34.8 ft	197.0 ft
66.7ft	0.74 fc	43.5 ft	246.6 ft
80.0ft	0.52 fc	52.2 ft	295.7 ft

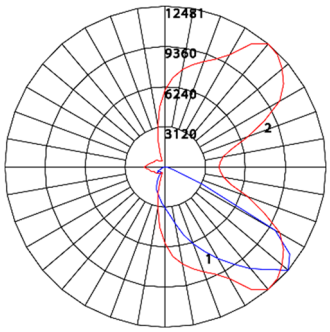
Vert. Spread: 36.1°
Horiz. Spread: 123.2°

ROADWAY LRL4 32 LED – TYPE M

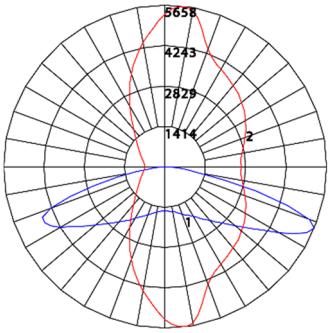
POLAR CANDELA CURVE	POLAR CANDELA CURVE	POLAR CANDELA CURVE	POLAR CANDELA CURVE
LRL4-2VSD-32LED-110W	LRL4-2SD-32LED-165W	LRL4-3M-32LED-110W	LRL4-3M-32LED-165W



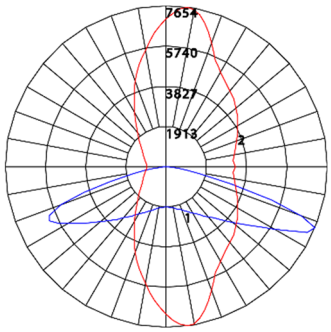
Vertical Plane Through: 50 - 230 Horizontal
Horizontal Cone Through: 65 Vertical
Maximum Candela = 8207 at 50 H 50 V
BUG Rating: B2 – U0 – G2



Vertical Plane Through: 50 - 230 Horizontal
Horizontal Cone Through: 65 Vertical
Maximum Candela = 12481 at 50 H 50 V
BUG Rating: B3 – U0 – G3

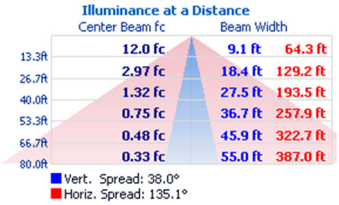


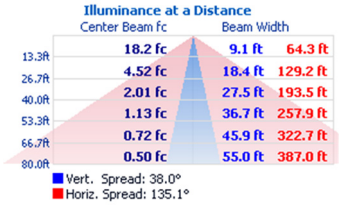
Vertical Plane Through: 82.5 – 262.5 Horizontal
Horizontal Cone Through: 67.5 Vertical
Maximum Candela = 5658 at 82.5 H 67.5 V
BUG Rating: B3 – U0 – G3

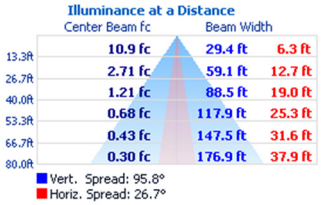


Vertical Plane Through: 82.5 – 262.5 Horizontal
Horizontal Cone Through: 67.5 Vertical
Maximum Candela = 7654 at 82.5 H 67.5 V
BUG Rating: B3 – U0 – G3

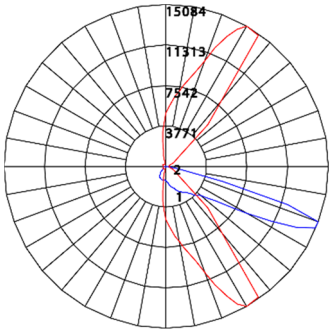
ILLUMINANCE AT DISTANCE	ILLUMINANCE AT DISTANCE	ILLUMINANCE AT DISTANCE	ILLUMINANCE AT DISTANCE
LRL4-2VSD-32LED-110W	LRL4-2SD-32LED-165W	LRL4-3M-32LED-110W	LRL4-3M-32LED-165W



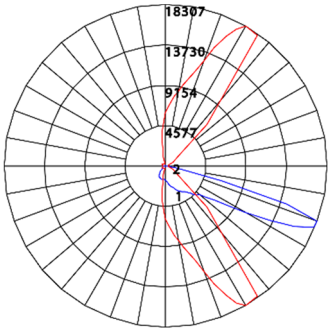




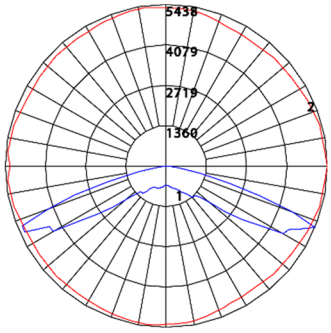
POLAR CANDELA CURVE	POLAR CANDELA CURVE	POLAR CANDELA CURVE	POLAR CANDELA CURVE
LRL4-3W-32LED-110W	LRL4-3W-32LED-165W	LRL4-5M-32LED-110W	LRL4-5M-32LED-165W



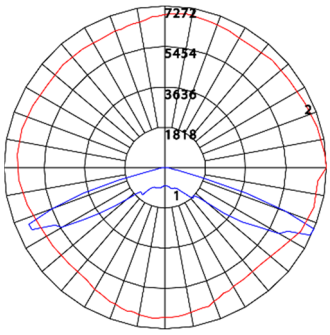
Vertical Plane Through: 60 - 240 Horizontal
Horizontal Cone Through: 45 Vertical
Maximum Candela = 15084 at 30 H 45 V
BUG Rating: B2 – U0 – G2



Vertical Plane Through: 60 - 240 Horizontal
Horizontal Cone Through: 45 Vertical
Maximum Candela = 18307 at 30 H 45 V
BUG Rating: B2 – U0 – G2

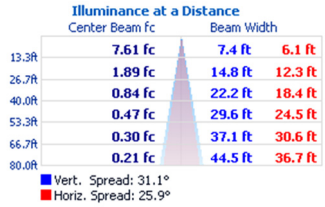


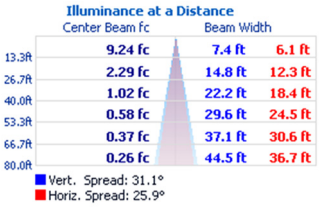
Vertical Plane Through: 0 - 180 Horizontal
Horizontal Cone Through: 45 Vertical
Maximum Candela = 5438 at 0 H 67.5 V
BUG Rating: B4 – U0 – G2

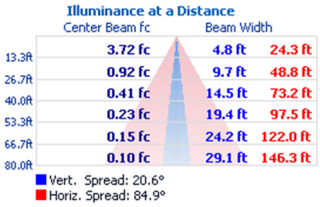


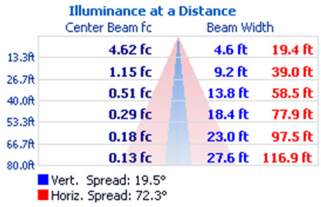
Vertical Plane Through: 0 - 180 Horizontal
Horizontal Cone Through: 45 Vertical
Maximum Candela = 7272 at 0 H 67.5 V
BUG Rating: B4 – U0 – G2

ILLUMINANCE AT DISTANCE	ILLUMINANCE AT DISTANCE	ILLUMINANCE AT DISTANCE	ILLUMINANCE AT DISTANCE
LRL4-3W-32LED-110W	LRL4-3W-32LED-165W	LRL4-5M-32LED-110W	LRL4-5M-32LED-165W









EXPLODED VIEW

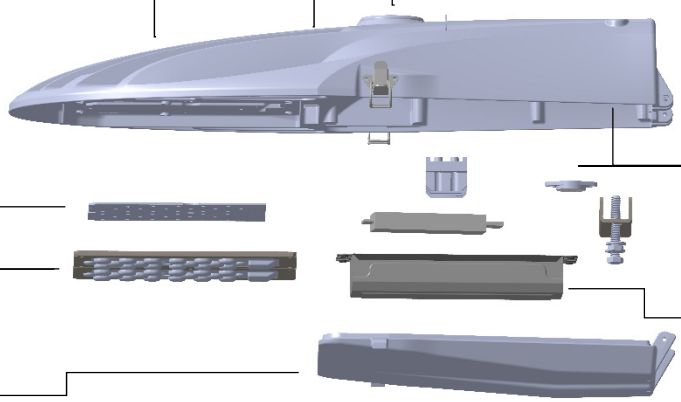
Single Die Cast Housing
Unique, durable, Light Weight
A360 or ADC12

Self-Cleaning Passive Cooling Technology
Efficiently dissipates heat, ensuring LED & Power Supply longevity

Adaptive Control & Twist-Lock Photocell Receptacle Options
Wireless Adaptive Control/Monitoring/Metering, 3, 5,7 prong twist-lock photo-control

Ultra-Efficient LEDs
Delivering up to 125 lm/W

Light Engine Including High-Grade Silicone Seals
Providing IP66 rating



Mast Arm Mounting
Suitable for 1.26" – 2.559" diameter
Including an adjustable step arm holder with +/- 5° tilt with 2.5°increment, and 2-Axis bubble level

UV Resistance Polycarbonate Secondary Optic System
For maximum light distribution and control

Programmable Power Supply
Including 0-10 VDC Control for Adaptive Control Applications
120 – 480 VAC

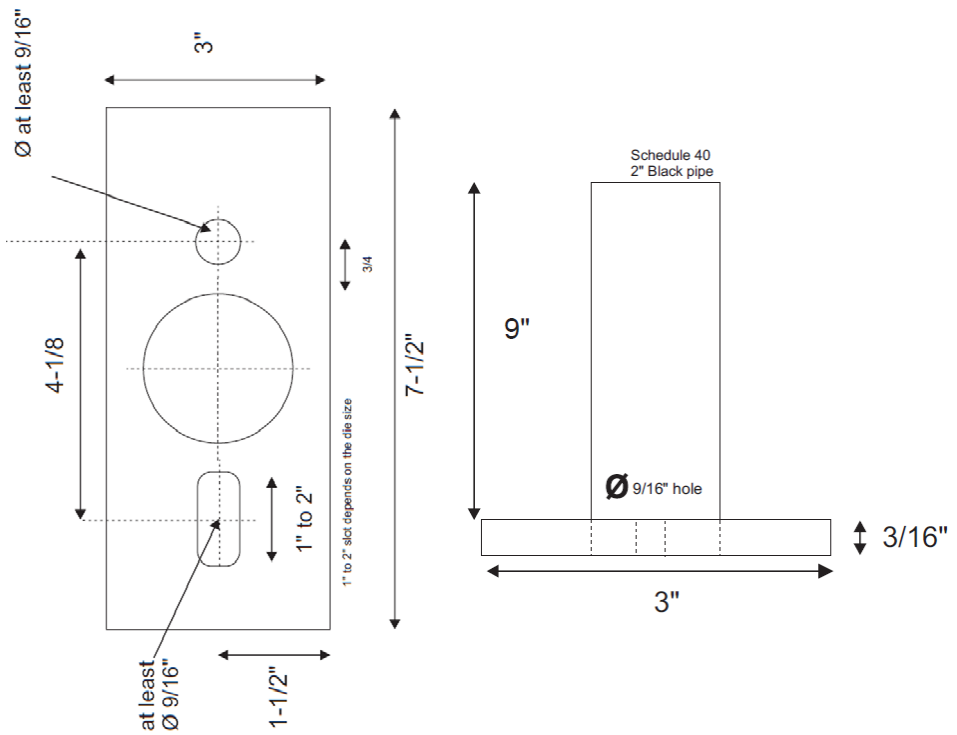
Tool-less Access Door and Locking Mechanism
Providing safety access to all electrical components

LRL4-S
28W – 77W

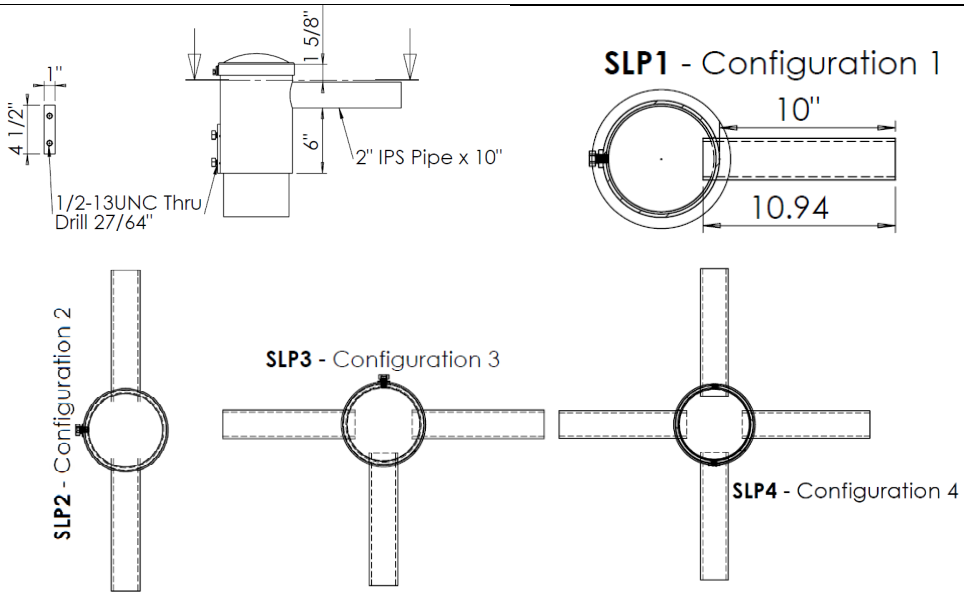
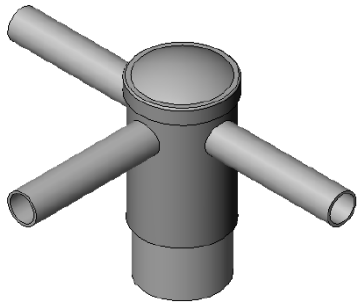
LRL4-M
110W – 165W

LRL4-S
215W – 235W

MOUNTING OPTIONS



TMT – Tenon Mount
(For Square Pole or Wall Mounting)



SLP – Slip Fitter
(For Round or Square Pole Mounting)