

CATALOG #	TYPE
JOB NAME	VOLTAGE

LRS-04500-2500L

# Open Appearance 4" Square • LED

Up to 60,000 Hour Life • Wet Location 10% Dimming • 3 Distributions • 4 CCT • 3-Step Binning LM-80 Qualified • LM-79 Certified



## **Specifications**

#### **Delivered System Performance\***

- · Lumen Series: MUST SPECIFY -2500L: 2500 nominal lumens (35W).
- Distribution: MFL standard. Optional: -SPT or -NFL.
- Color temperature: 3500°K standard. Optional: -27K, -30K, -41K or -50K.
- CRI: 80+ standard. Optional: -HC (90+).
- 60,000 hour life (L70).
- · Fully sustainable: removable for servicing.

#### Thermal Protection: SPECIFY VOLTAGE

 Thermal protector for insulation detection per UL/NEC. Must specify input voltage.

#### Thermal Management System

All aluminum heat sink, components and housing maximize cool operation and long life while minimizing maintenal

### **LED Power Supply - INTERNAL**

Suitable for outdoor / indoor use: -30°C (-22°F) to 60°C (140°F) standar

- 120-277V / 50-60Hz standard. Load insensitive
- 0-10V CCR dimming standard. (100-10%)
- Specular clear aluminum self-flanged square downlight cone with tempered glass lens

## Acrylic Enameled Aluminum Housing

- Rustproof and corrosion resistant. Exceed 1000 hour ASTM 5% salt spray test.
- Shallow depth lits restricted pierums. Cool operation: Extends life of all components.
- Entire luminaire, including LED light engine, is modular, easily visible and serviced through aperture.
- Built-in plaster flang

#### **Outlet Box**

Nisted J-box with insulated removable over Prewired 14 GA (NEC) with ½" and ¾"

#### Installation

- Recess indoor or outdoor.
- Accommodates ceilings up to 11/4" thick. Compatible with fire rated enclosures (by others).
- 27" galvanized hanger bars with adjustable mounting brackets (2) supplied.

#### UL C-UL (Canada) Listings

- Wet, damp or dry locations, covered
- Through-branch conductors (4 #12 AWG 90°C)

#### **IEC & FCC Compliance**

- Meets IEC/EN 60601-1-2 electromagnetic compatibility standard for medical electrical equipment.
- FCC Part 15 certified for EMI/RFI emissions.



#### **FIVE YEAR Limited Warranty**

· Complete standard fixture.

MUST SPECIF	X	OPTIONAL	
Product Number	Voltage	Options	
LRS-04500-2500b	-120 (120 volts) -277 (277 volts) -97 (Specify other)	See "Options" below	Ordering Example: LRS-04500-2500L-120-30K-NFL

## **Options**

#### **Input Power: SPECIFY**

-120 120V (50-60Hz) input for thermal protector. -277 277V (50-60Hz) input for thermal protector.

-97 Specify other voltage. Consult factory.

#### **LED Power Supply**

- -D1 0-10V 100-1.0% dimming instead.
- -D2 0-10V 100-0.1% dimming instead.
- -D3 DALI 100-1.0% dimming instead.
- -D4 DALI 100-0.1% dimming instead.
- -D40 -40°C driver with 0-10V 10% dimming instead.
- -ECO Digital driver for Lutron EcoSystem controls. Dims to 1% or consult factory.
- INTERNAL emergency battery pack. Delivers 500 lumens. Run time: 90+ minutes.
- -ERH REMOTE emergency battery pack. Delivers 1000 lumens. Run time: 90+ minutes. CEC Compliant.

#### Color Temperature (CCT)

- -27K Color temperature 2700°K instead.
- -30K Color temperature 3000°K instead.
- -41K Color temperature 4100°K instead.
- -50K Color temperature 5000°K instead.
- -HC 90+ CRI instead. Consult factory.

- -NFL Narrow flood distribution.
- -SPT Spot distribution.

#### **Trims**

- -23 Frosted microprismatic lens instead.
- All white acrylic enameled cone.
- White acrylic enameled cone flange -32 White oversize trim ring. Specify O.D.
- Decorative Glow Ring suspended trim assembly. Consult factory.
- -37F Dark bronze acrylic enameled cone flange.
- -38F Black acrylic enameled cone flange.

- -45 Gasket between trim flange and ceiling.
- SofTex™ clear self-flanged cone.
- Custom color/finish. Specify. Consult factory.
- -WA White acrylic (flat) diffuser instead; will produce wide flood distribution.

#### Other

- -79 Extension collar for ceilings up to 2" thick.
- Special modification. Consult factory.
- Single in-line fuse.
  - Residential mounting hardware instead. Suitable for wood joist ceilings with spacing from 141/6" to 257/6" with 5/6" vertical adjustability.



The Kirlin Company

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## LRS-04500-2500L

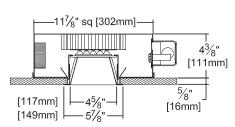
#### **PERFORMANCE**



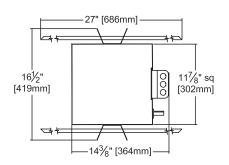
LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE We sentation of proof of purchase and defective fixture at the offices of manufactions are also as a complex of the section of the section

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## **Dimensions**



Ceiling Cut-out 51/4" Sq.

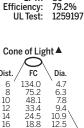


## **Detailed Photometry - Installed Fixture**

Photometric testing done in accordance with IESNA LM-79

Photometry from UL Verification Services, Allentown,

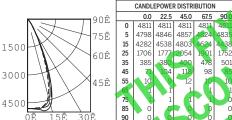
## -2500L STANDARD (MFL)



Lumens: Beam:

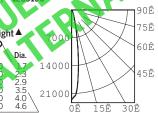
SC: LPW:





## -2500L Option





Total	System	Watte	366

CANDLEPOWER DISTRIBUTION					
0.0		22.5	45.0	67.5	90.0
0	22540	22540	22540	22540	22540
5	17780	17940	17920	17970	18040
15	3487	3365	3339	3262	3300
25	825	902	1032	782	715
35	192	213	280	255	198
45	43	56	69	58	50
55	5	5	5	4	4
65	2	1	1	1	1
75	1	1	1	1	0
85	1	1	1	1	1
90	2	1	1	1	1

## -2500L Option -NFL



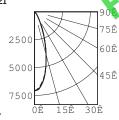
Cone of Light ▲

FC 197.0 111.0 71.0 49.3

36.2 27.7



3.2 4.3 5.4



Tota	Cuctor	Watts 36.5
1014	ı əystei	Walls 30.3

Total System Watts 36.6

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	7099	7099	7099	7099	7099
5	6533	6581	6615	6643	6663
15	3935	3956	3959	3958	4008
25	1484	1472	1555	1423	1363
35	417	423	423	473	477
45	86	114	123	108	102
55	8	8	10	9	9
65	1	1	1	1	1
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

#### LM-80 Qualified • LM-79 Certified Photometry

\*\* LED manufacturers maintain a tolerance of ±7% on flux (lumens) and power (electrical) measurements. Kirlin photometrics are actual test data from UL Verification Services (UL) where photometry was measured from 3717 lumen (-2500L) light engines (within the established tolerance).

▲ Cone of Light Key Dia. (in ft.) shown is where FC value is half the FC at nadir. Dist. Distance (Ft.) from fixture FC Footcandles at nadir (0°) Dia. Circle of light at 50% of FC

## SUBMITTAL DATA

JOB NAME

**TYPE** 

WATTAGE

**VOLTAGE** 

CATALOG NUMBER

APPROVAL STAMP

