

CATALOG #	TYPE
JOB NAME	VOLTAGE

LRR-05438-2500L

Super Shallow 2¾" Depth Downlight • LED

Up to 60,000 Hour Life • Wet Location • Open Appearance
10% Dimming • MFL • 5 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.
- 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 maintenance.

LED Power Supply - INTERNAL

- Suitable for outdoor / indoor use: -30°C (-22°F) to 60°C (140°F).
- 120-277V / 50-60Hz standard. Load insensitive.
- 0-10V CCR dimming standard. (100-10%)**

Trim Assembly

- Seamless tapered aluminum self-flanged trim with white finish (field paintable), 3.25" top aperture.
- Regressed tempered prismatic spread lens.

Acrylic Enamelled Aluminum Housing:

Super Shallow 2¾" Depth

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

Outlet Box

- UL listed J-box with insulated removable cover. Prewired 14 GA (NEC) with ½" and ¾" knockouts.

Installation

- Recess indoor or outdoor.

- Accommodates ceilings up to 1-1/8" 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 ceilings.
- 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.

5 Year FIVE YEAR Limited Warranty

- Complete standard fixture.

MUST SPECIFY		OPTIONAL	Ordering Example: LRR-05438-2500L-120-30K-45
Product Number	Voltage	Options	
LRR-05438-2500L	-120 (120 volts) -277 (277 volts) -97 (Specify other)	See "Options" below	

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 1.0% dimming instead.
- ECO Digital driver for Lutron EcoSystem controls. Dims to 1% or consult factory. Requires 5" deep housing, including plaster flange depth.
- 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.

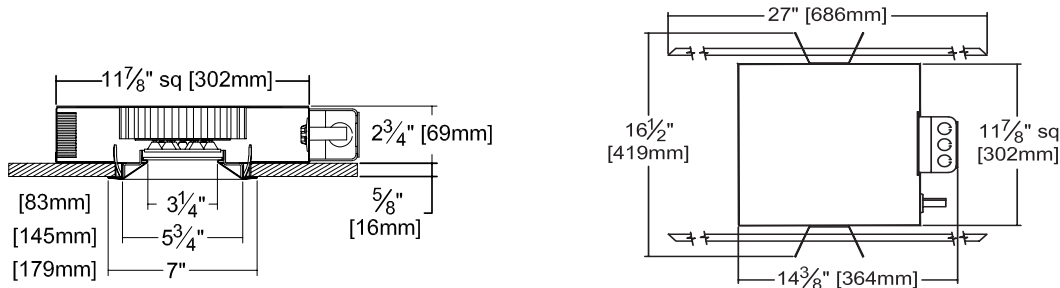
Lens and Trim

- 23 Frosted microprismatic lens instead.
- 30F White enamel (flange only).
- 32 White oversize trim ring. Specify O.D.
- 35T Silver enamel (complete trim).
- 45 Gasket between trim flange and ceiling.
- 62T Clear specular (complete trim).
- 94 Custom color/finish. Specify. Consult factory.
- DF Electrically isolated "dead front" gasketed trim. Also requires Option -45.
- WA White acrylic (flat) diffuser instead; will produce wide flood distribution.

Other

- 79 Extension collar for ceilings up to 2" thick.
- 99 Special modification. Consult factory.
- FS Single in-line fuse.
- NAT Modified for natatorium use.

Dimensions



Ceiling Cut-out
6 1/2" Dia.

Detailed Photometry - Installed Fixture

Photometric testing done in accordance with IESNA LM-79

Photometry from I.T.L., Boulder, CO

-2500L Performance

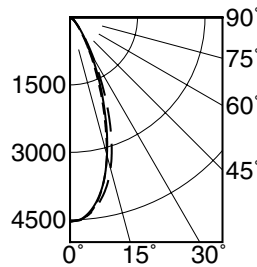
Lumens: 2753
Beam: ~37°
SC: 0.7
LPW: 75
Efficiency: 74.1%
ITL Test: 85871



Total System Watts 36.9

Cone of Light ▲

Dist.	FC	Dia.
6	126.1	4.1
8	70.9	5.4
10	45.4	6.8
12	31.5	8.1
14	23.2	9.5
16	17.7	10.8



	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	4539	4539	4539	4539	4539
5	4424	4420	4422	4405	4396
15	3166	3311	3480	3348	3173
25	1389	1529	1746	1657	1507
35	500	531	607	598	570
45	202	208	221	224	215
55	94	97	106	94	92
65	53	50	53	52	51
75	17	15	16	16	15
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 Independent Testing Laboratories (ITL) where photometry was measured from 3717 lumen (~2500L) light engines (within the established tolerance).

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

SUBMITTAL DATA

JOB NAME

TYPE

VOLTAGE

CATALOG NUMBER

APPROVAL STAMP



LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE. INSTALL TO N.E.C. IN NORMAL USE. Manufacturer at the option will replace or repair such fixture or refund the purchase price on presentation of proof of purchase and defective fixture at the offices of manufacturer within five years of original shipment. Liability of manufacturer is limited to the foregoing, and manufacturer shall not be liable for any other damages, direct or indirect, sustained or suffered by purchaser or any person. This warranty is supplied to the buyer in place of all other warranties, expressed or implied. Seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty or amend this specific warranty. Abnormal use, abuse of the fixture, improper installation, or repair or modification of the fixture without prior written authorization from the manufacturer will render the warranty void.