

CATALOG #	TYPE
JOB NAME	VOLTAGE

Open Appearance 9" Cylinder • LED

Up to 60,000 Hour Life • Wet Location

LM-80 Qualified • LM-79 Certified Photometry

LSR-09475-3500L

LSR-09475-2500L

Specifications

Delivered System Performance*

- Lumen Series: **MUST SPECIFY**
 - 3500L: 3500 nominal lumens (42W).
 - 2500L: 2500 nominal lumens (35W).
- Distributions: MFL standard. Optional: -SPT or -WFL.
- Color temperature: 3500°K standard. Optional: -27K, -30K or -41K.
- CRI: 80+ standard. Optional: -HC (90+).
- 60,000 hour life (L70).
- Fully sustainable: removable for servicing.

Thermal Management System

- All aluminum proprietary 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

- High efficiency low brightness clear aluminum self-flanged reflector with tempered prismatic spread lens above.

- Optional colors and finishes available.

Aluminum Housing

- Seamless white acrylic enamel finish. Exceeds 1000 hour ASTM 5% salt spray.
- Interlocking flange for easy installation.
- No visible cylinder hardware.
- Cool operation extends life of components.
- Energy efficient: Energy luminaire with LED light engine, easily visible and recessed enough to minimize ceiling damage.
- Lighting design minimizes ceiling load.

Installation

- Use spigot mounting for snug fit to ceiling. Mounting hardware furnished.
- Indoor ceiling or for covered ceiling. WeatherCap available. See Catalog #9.



UL, C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings. (See Option -89)

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 Limited Warranty

- Complete standard fixture.

MUST SPECIFY		OPTIONAL	
Product Number	Voltage	Options	
LSR-09475-3500L	-120 (120V)	See Catalog #9 below	
LSR-09475-2500L	-277 (277V)		
	-97 (97V)		

Ordering Example:

LSR-09475-3500L-120-30K-SPT

Options

Input Power: SPECIFY

- 120 120V (50-60Hz) input.
- 277 277V (50-60Hz) input.
- 97 Specify other voltage. Consult factory.

LED Power Supply

- 29 **Two wire** full range (100-1%) PWM dimming instead (Lutron). 120V only. Not available with Option -EI.
- 39 **Three wire** full range (100-1%) PWM dimming instead (Lutron).
- D1 0-10V 1.0% dimming instead.
- D2 0-10V 0.1% dimming instead.
- D3 DALI 1.0% dimming instead.
- D4 DALI 0.1% dimming instead.
- D5 DMX512A 0% dimming instead.
- EI Remote emergency inverter for 50% of rated lumens for -3500L, or 100% for -2500L. Run time: 90+ minutes. 120 or 277V, 60Hz input only. Specify voltage. Not for use with Option -29 or -FS.
- ERH REMOTE emergency battery pack. Delivers 1000 lumens. Run time: 90+ minutes. CEC Compliant.

Color Temperature (°K)

- 27K Color temperature 2700°K instead.
- 30K Color temperature 3000°K instead.
- 41K Color temperature 4100°K instead.
- HC Color temperature 2700° or 3000°K only.

Lighting

- SPT Spot distribution.
- WFL Wide flood distribution.

Lens and Trim

- 13 Clear poly lens below lens. Photometric distribution is unaffected.
- 23 Frosted micropismatic lens instead.
- 30 All white acrylic enameled cone.
- 31 White acrylic enameled cone flange.
- 70 Softex Clear self-flanged cone. (CP x .85)
- 94 Custom color/finish. Specify. Consult factory.
- WA White acrylic (flat) diffuser instead.

Luminaire (Housing) Finishes

- 35 Silver (natural aluminum) acrylic enamel.
- 37 Dark Bronze acrylic enamel.
- 38 Black acrylic enamel.
- 94 Custom color/finish. Specify. Consult factory.

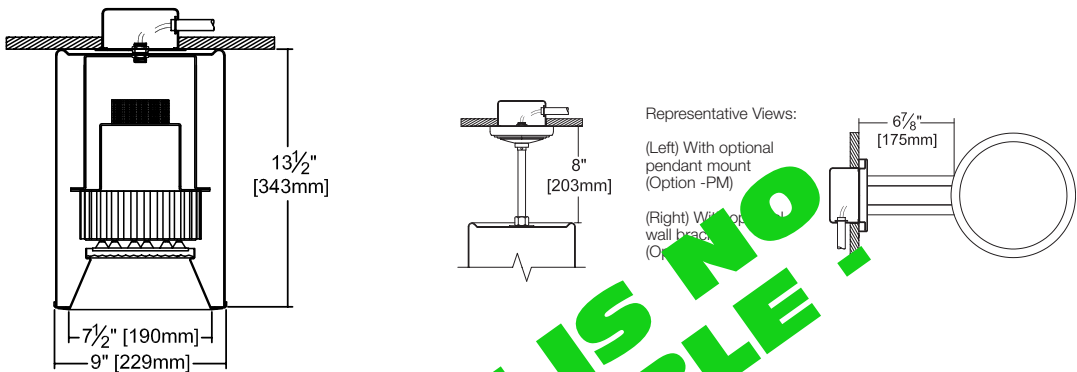
Mounting

- 54 Safety cable from fixture through pendant stem and 12" beyond. Use with -PM.
- 80 2" collar for mounting beneath surface outlet box. 1/2" T.S. KO's. Must add Option -89 for wet label listing.
- 87 Custom pendant / cable length. Specify length. Use with Option -ASB, -ASW or -PM.
- 88 Swivel canopy for sloped ceilings up to 40°. Use with Option -PM.
- 89 Sealed top WeatherCap. Must add to Options -80, -PM and -WB for wet label listing.
- ASB Aircraft cable pendant mount; black straight cord. 48" or see -87. No wet label listing.
- ASW Aircraft cable pendant mount; white straight cord. 48" or see -87. No wet label listing.
- PM Pendant mount. 8" stem or see Option -87. Must add Option -89 for wet label listing.
- WB Wall bracket mount. Must add Option -89 for wet label listing.

Other

- 99 Special modification. Consult factory.
- FS Single in-line fuse. Not for use with Option -EI.
- NAT Modified for natatorium use.

Dimensions



Detailed Photometry - Installed Fixtures

Photometric testing done in accordance with IESNA M-19

Photometry from UL Verification Services, Allentown, PA

-3500L STANDARD (MFL)

Lumens: 3819
Beam: ~31°
SC: 0.6
LPW: 86
Efficiency: 80.1%
UL Test: 11356591.05



CANDLEPOWER DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	8009	8009	8009	8009	8009
5	317	75	151	151	7517
15	464	464	464	464	464
25	158	158	158	158	2158
35	854	854	854	854	854
45	330	330	330	330	330
55	63	63	63	63	63
65	3	3	3	3	3
75	1	1	1	1	1
85	0	0	0	0	0
90	0	0	0	0	0

-3500L Option -S

Lumens: 4130
Beam: ~16°
SC: 0.3
LPW: 93
Efficiency: 86.1%
UL Test: 11356591.06



CANDLEPOWER DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	31380	31380	31380	31380	31380
5	24360	24360	24360	24360	24360
15	4139	4139	4139	4139	4139
25	1186	1186	1186	1186	1186
35	414	414	414	414	414
45	189	189	189	189	189
55	25	25	25	25	25
65	2	2	2	2	2
75	1	1	1	1	1
85	0	0	0	0	0
90	0	0	0	0	0

Total System Watts 44.5

CANDLEPOWER DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	31380	31380	31380	31380	31380
5	24360	24360	24360	24360	24360
15	4139	4139	4139	4139	4139
25	1186	1186	1186	1186	1186
35	414	414	414	414	414
45	189	189	189	189	189
55	25	25	25	25	25
65	2	2	2	2	2
75	1	1	1	1	1
85	0	0	0	0	0
90	0	0	0	0	0

-3500L Option -WFL

Lumens: 3417
Beam: ~59°
SC: 1.1
LPW: 77
Efficiency: 71.7%
UL Test: 11356591.08



CANDLEPOWER DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2383	2383	2383	2383	2383
5	2352	2352	2352	2352	2352
15	2021	2021	2021	2021	2021
25	1990	1990	1990	1990	1990
35	1514	1514	1514	1514	1514
45	802	802	802	802	802
55	165	165	165	165	165
65	5	5	5	5	5
75	1	1	1	1	1
85	0	0	0	0	0
90	0	0	0	0	0

See following page for
-2500L performance

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 4768 lumen (-3500L) light engines (within the established tolerance).

▲ Cone of Light Key
(Dia. (in ft.) shown is where FC value is half the FC at nadir.)

Ft. Distance from fixture
FC Footcandles at nadir (0°)
Dia. Circle of light at 50% of FC

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME
TYPE
WATTAGE
CATALOG NUMBER

VOLTAGE



Detailed Photometry - Installed Fixture

Photometry from UL Verification Services, Allentown, PA

LSR-09475-2500L PERFORMANCE

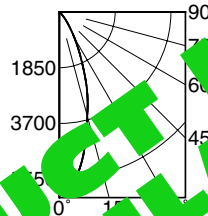
-2500L STANDARD (MFL)

Lumens: 2742
Beam: ~32°
SC: 0.6
LPW: 74
Efficiency: 73.8%
UL Test: 1264616



Cone of Light▲

Dist.	FC	Dia.
6	168.0	3.4
8	94.3	4.6
10	60.3	5.7
12	41.9	6.9
14	30.8	8.0
16	23.6	9.1



Total System Watts 36.9

CANDLEPOWER DISTRIBUTION					
0.0	22.5	45.0	67.5	90.0	
0	6033	6033	6033	6033	6033
5	5639	5639	5639	5639	5639
15	3571	3571	3571	3571	3571
25	1685	1685	1685	1685	1685
35	87	87	87	87	87
45	29	29	29	29	29
55	4	4	4	4	4
65	1	1	1	1	1
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

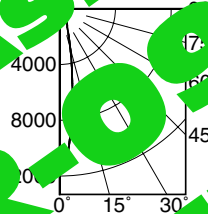
-2500L Option T

Lumens: 2742
Beam: ~32°
SC: 0.3
LPW: 74
Efficiency: 74.3%
UL Test: 1259178



Cone of Light▲

Dist.	FC	Dia.
6	168.0	3.4
8	94.3	4.6
10	60.3	5.7
12	41.9	6.9
14	30.8	8.0
16	23.6	9.1



Total System Watts 37.3

CANDLEPOWER DISTRIBUTION					
0.0	22.5	45.0	67.5	90.0	
0	11750	11750	11750	11750	11750
5	8900	8900	8900	8900	8900
15	2961	2961	2961	2961	2961
25	1282	1282	1282	1282	1282
35	613	613	613	613	613
45	247	247	247	247	247
55	24	24	24	24	24
65	3	3	3	3	3
75	1	1	1	1	1
85	1	1	1	1	1
90	1	1	1	1	1

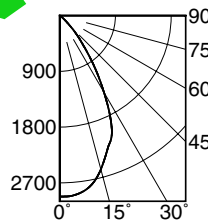
-2500L Option WFL

Lumens: 2742
Beam: ~30°
SC: 0.9
LPW: 73
Efficiency: 72.7%
UL Test: 125918



Cone of Light▲

Dist.	FC	Dia.
6	168.0	3.4
8	94.3	4.6
10	60.3	5.7
12	41.9	6.9
14	30.8	8.0
16	23.6	9.1



Total System Watts 36.9

CANDLEPOWER DISTRIBUTION					
0.0	22.5	45.0	67.5	90.0	
0	2921	2921	2921	2921	2921
5	2904	2904	2904	2904	2904
15	2570	2570	2570	2570	2570
25	1986	1986	1986	1986	1986
35	920	920	920	920	920
45	247	247	247	247	247
55	44	44	44	44	44
65	3	3	3	3	3
75	1	1	1	1	1
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 $\pm 7\%$ 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.)

Ft. Distance from fixture
FC Footcandles at nadir (0°)
Dia. Circle of light at 50% of FC

THE KIRLIN COMPANY

3401 EAST JEFFERSON AVENUE • DETROIT, MICHIGAN 48207-4232
(313) 259-6400 • Fax: (313) 259-9409 OR (313) 259-3121 • www.kirlinlighting.com

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