KIRLIN
Lighting Since 1895
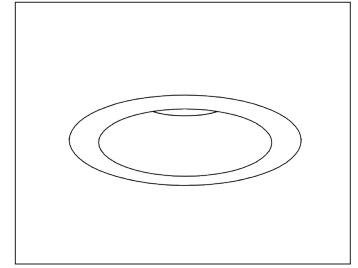
CATALOG #		TYPE	
JOB NAME		WATTAGE	VOLTAGE

6" LED 2450 LUMENS 38 SYSTEM WATTS LRR-06300

Open Appearance LED Downlight
50,000+ Hour Life (L70) • Sealed Housing Optional
LM-80 Qualified • LM-79 Certified Photometry

Specifications

0-10V DIMMING STANDARD

LED Light Engine*
- 38 watt LED array. 3500°K standard (or see Option -41K).
- 2450* lumens, 65 lumens per watt (total system).
- 81 CRI, 50,000+ 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
- Suitable for outdoor / indoor use: -30°C (-22°F) to 70°C (158°F).
- Specify 120V or 277V (50-60Hz). Load insensitive.
- **0-10 volt dimming standard.**
- Kirlin remote SmartSupply™ driver instead (up to 6 luminaires). See Option -SS.

Thermal Protection
- Thermal protector (per current NEC) provides automatic cut-off if rated temperature is exceeded. Must specify input voltage.

Trim
- High efficiency specular clear aluminum self-flanged reflector with tempered prismatic C#73 spread lens above.
- Optional colors and finishes available.

Acrylic Enameled Aluminum Housing
- Rustproof and corrosion resistant: Exceeds 1000 hour ASTM 5% salt spray test.
- Shallow depth fits restricted plenums.
- Cool operation: Extends life of all components.
- Fully sustainable: Entire luminaire, including LED light engine, easily visible and serviced through aperture.
- Built-in plaster flange.
- Sealed housing design available, see -SH.

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

Installation
- Recesses indoor/outdoor in covered locations.
- Accommodates ceilings up to 1-1/8" thick or see Option -79.
- 27" galvanized hanger bars with adjustable mounting brackets (2) supplied.
- For residential mounting hardware for wood joist ceilings, see Option -RH.

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

CE & FCC Compliance
- Certified to meet IES 60601-1-2 & EN 60601-1-2 electromagnetic compatibility standard for medical electrical equipment.
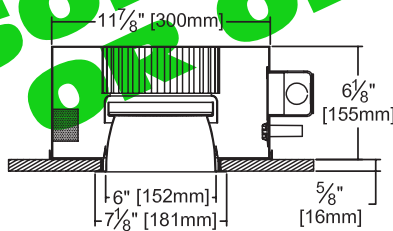- FCC Part 15 certified for EMI/RFI emissions.

5 Year
FIVE YEAR
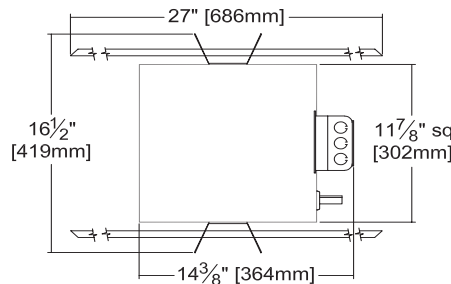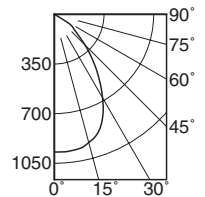**Limited Warranty**
- Complete standard fixture.

Performance at a Glance

11⅛" [300mm]
6⅛" [155mm]
6" [152mm]
7⅞" [181mm]
⅝" [16mm]

Ceiling Cut-out
6½" Dia.

27" [686mm]
16½" [419mm]
11⅞" sq [302mm]
14⅜" [364mm]

Lumens:	1441
Beam:	~75°
SC:	1.08
Effic:	58.7%
ITL Test:	68385

Exceptional Energy Efficiency
EEE

FC CE

THE KIRLIN COMPANY

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* See note next page
** See note next page

	MAX. LUMENS	MAX. SYSTEM WATTS	CATALOG NUMBER
LED LIGHTING	**2450**	**38**	**LRR-06300**

DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE. THE KIRLIN COMPANY EXPECTS PHOTOMETRIC PERFORMANCE TO IMPROVE SIGNIFICANTLY AND FREQUENTLY AS LED SOURCE TECHNOLOGY IMPROVES.

Detailed Photometry - Installed Fixture

Photometry from I.T.L., Boulder, CO
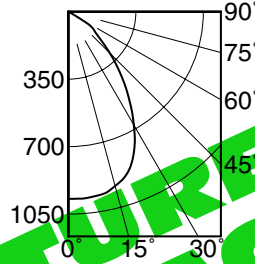
Photometric testing done in accordance with IESNA LM-79-08

LRR-06300

EEE

Lumens:	1441
Beam:	~75°
SC:	1.08
Effic:	58.7%
ITL Test:	68385

Cone of Light ▲

Dist.	FC	Dia.
6	27.0	6.5
8	15.2	8.7
10	9.7	10.9
12	6.7	13.1
14	5.0	15.3
16	3.8	17.4

CANDLEPOWER DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	971	971	971	971	971
5	972	972	972	972	972
15	936	936	936	936	936
25	804	804	804	804	804
35	546	546	546	546	546
45	304	304	304	304	304
55	159	159	159	159	159
65	4	4	4	4	4
75	1	1	1	1	1
85	0	0	0	0	0
90	0	0	0	0	0

▲ Cone of Light Key

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

Dia. (in ft.) shown is where FC value is half the FC at nadir.

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).

** LED Operating Characteristics: 50,000+ hours at 70% lumen maintenance (L70).

Options

LED Power Supply

-120 Power supply and thermal protector rated for 120V (50-60Hz) input.
-277 Power supply and thermal protector rated for 277V (50-60Hz) input.
-39 Specify "-39Lutron" for Hi-Lume 3 wire full range (0-100%) dimming power supply instead of standard 0-10V dimming.
-98 347V 50 Hz. instead. Consult factory.
-EI Remote emergency inverter for 100% rated lumen output. Run time: 90 minutes. Not for use with -SS SmartSupply™ driver.
-SS Remote mounted Kirlin SmartSupply™ driver, sold separately. Drives up to 6 fixtures at 38 watts each. Order LPS-1220A (0-10V analog dimming) or LPS-1220D (DMX dimming). See kirlinlighting.com or consult factory for more information.

Color Temperature (CCT)

-41K Color temperature 4100°K. Consult factory.

Trims

-30 All white acrylic enameled cone. (CP x .95)
-31 White acrylic enameled cone flange.
-32 White oversize trim ring. Specify O.D.
-45 Gasket between trim flange and ceiling.
-59 Dark Bronze specular self-flanged cone. (CP x .65)
-60 SofTex Dark Bronze self-flanged cone. (CP x .60)
-63 Dune specular self-flanged cone. (CP x .85)
-68 Matte black self-flanged cone. (CP x .60)
-69 Wheat specular self-flanged cone. (CP x .85)
-70 SofTex Clear self-flanged cone. (CP x .85)
-71 SofTex Dune self-flanged cone. (CP x .80)
-72 Black specular self-flanged cone. (CP x .55)
-77 SofTex Pewter self-flanged cone. (CP x .75)
-91 SofTex Wheat self-flanged cone. (CP x .80)
-93 Pewter specular self-flanged cone. (CP x .80)
-94 Custom color/finish. Specify. Consult factory.

Other

-79 Extension collar for ceilings up to 2" thick.
-99 Special modification. Consult factory.
-RH Residential mounting hardware instead. Suitable for wood joist ceilings with spacing from 14⅛" to 25⅞" with ⅝" vertical adjustability.
-SH Sealed housing and junction box.

SUBMITTAL DATA

JOB NAME

TYPE

WATTAGE   VOLTAGE

CATALOG NUMBER

APPROVAL STAMP