

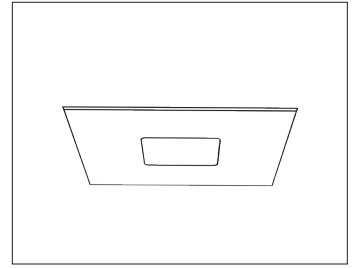
CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

2" 4 LED 12 SYSTEM WATTS

LRS-02046

Pin Hole Open Appearance Downlight • LED

50,000+ Hour Life • 82 CRI • Air Tight Optional • Type IC



Specifications

LED Light Engine*

- 12 watt LED array. 3500°K standard (or see Options -30K or -41K).
- 450* lumens, 38 lumens per watt (total system).
- 82 CRI, 50,000+ hour life.**
- Fully sustainable: removable for servicing.

Optics

- Self-aligning optics ensure precise positioning of LED module with trim for optimal performance.

Thermal Management System

- All-aluminum proprietary heat sink, components and housing maximize luminaire's cool operation and long life while minimizing maintenance.

LED Power Supply

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

- 120-277V / 50-60Hz standard. Load insensitive.
- Dimming available, see Option -39.
- Kirlin remote SmartSupply™ driver instead, see Option -SS.

Pin Hole Trim

- White die cast flat aluminum. Low brightness black inner bevel and cone with clear lens above.
- Optional trim 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.
- Air Tight design available, see Option -AT.

Outlet Box

- UL listed J-box with insulated removable

cover. Prewired 14 GA (NEC) with 1/2" and 3/4" knockouts.

Installation

- Recess indoor or outdoor.
- 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 locations.
- Type IC: for direct contact with insulation.
- Through-branch conductors (4 #12 AWG 90°C) for Type IC Listing.

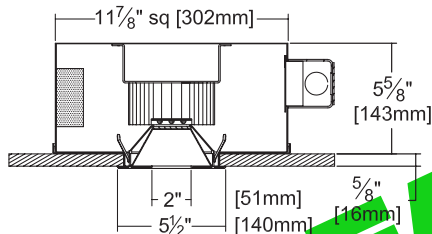


FIVE YEAR

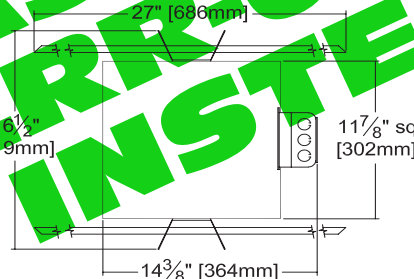
Limited Warranty

- Complete standard fixture

Performance at a Glance

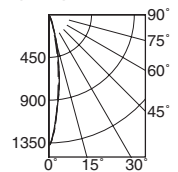


Ceiling Cut-out
5" Sq



Standard (SPT)

Lumens: 193
Beam: ~18°
SC: 0.3
Effic: 46.3%
ITL Test: 61141R



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

Detailed Photometry - Installed Fixture

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

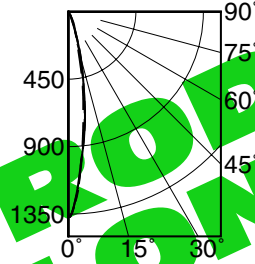
Photometric testing done in accordance with IESNA LM-79-08

LRS-02046

Lumens: 193
Beam: ~18°
SC: 0.3
Effic: 46.3%
ITL Test: 61141R

Cone of Light*

Dist.	FC	Dia.
6	38.1	1.8
8	21.4	2.4
10	13.7	3.0
12	9.5	3.6
14	7.0	4.2
16	5.4	4.8



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	1370	1370	1370	1370	1370
5	991	995	999	1003	993
10	617	593	566	604	630
15	318	285	240	283	319
20	113	134	128	131	106
25	50	56	76	49	40
30	25	23	15	17	17
35	5	3	2	3	4
40	1	0	0	0	0
45	0	0	0	0	0
90	0	0	0	0	0

THIS PRODUCT IS NO LONGER AVAILABLE AS LRR-02047-43 PLEASE SPECIFY THIS LRR-02047-43 INSTEAD

* 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 420 lumen light engines (within the established tolerance).
** LED Operating Characteristics: 50,000 hours at 70% lumen maintenance.

Cone of Light Key
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.

Options

LED Power Supply

- 39 Dimmable power supply, 0-10V analog standard. Specify voltage. Consult factory for brand availability and pricing.
- 97 Specify other voltage. Consult factory.
- SS Remote mounted Kirlin SmartSupply™ driver, sold separately. Drives up to 12 fixtures at 20 watts each. Order LPS-1220A (0-10V analog dimming) or LPS-1220D (DMX dimming). See kirlinlighting.com or consult factory for more information.

Trims

- 32 White oversize trim ring. Specify O.D.
- 35 Natural aluminum acrylic enameled finish.
- 37 Dark Bronze acrylic enameled finish.
- 38 Black acrylic enameled finish.
- 45 Gasket between trim flange and ceiling.
- 94 Custom color/finish. Specify. Consult factory.
- BN Brushed satin nickel finish.

Filter

- AM Amber filter.
- DP Dichroic Peach filter.
- GE Green / Botanical filter.
- HX Hexcel louver.

- MB Medium Blue filter.
- PK Pink / Rose filter.
- XF Custom filter other than shown. Specify.

Other

- 79 Extension collar for up to 2" thick ceilings.
- 99 Special modification. Consult factory.
- AT Air tight version. Meets ASTM E283 restricted airflow of 2 CFM maximum. Option -RH required.
- 30K Color temperature 3000°K instead.
- 41K Color temperature 4100°K. Consult factory.
- RH Residential mounting hardware instead. Suitable for wood joist ceilings with spacing from 14 1/8" to 25 5/8" with 5/8" vertical adjustability.

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME _____
TYPE _____
WATTAGE _____ VOLTAGE _____
CATALOG NUMBER _____

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALL TO N.E.C. IN NORMAL USE. Manufacturer of 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 three 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 subject 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.