

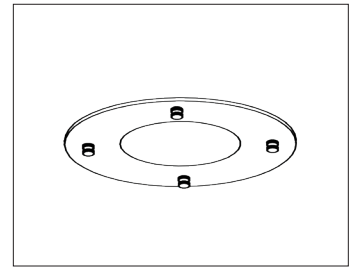
CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

3" 4 LED 12 SYSTEM WATTS

LRR-04016

Porthole Downlight • LED • Type IC

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



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-aligns 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.

Porthole Trim with Brushed Nickel Finish

- Cast aluminum, brushed satin nickel finish porthole flat trim and (4) silver finials with frosted C#73 prismatic tempered spread lens.
- Optional lenses, finishes, finials and glow rings.

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.

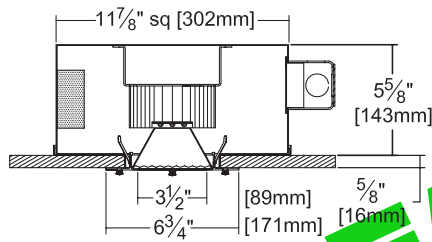
UL, C-UL (Canada) Listings

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

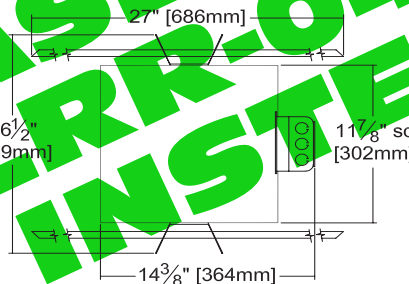
5 Year FIVE YEAR Limited Warranty

- Complete standard fixture.

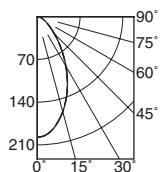
Performance at a Glance



Ceiling Cut-out
5" Dia.



lumens: 230
Beam: 24°
Efficacy: 112 lm/w
Temp: 61142



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

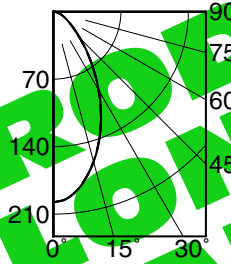
Photometric testing done in accordance with IESNA LM-79-08

LRR-04016

Lumens: 230
Beam: ~57°
SC: 0.8
Effic: 55.2%
ITL Test: 61142

Cone of Light*

Dist.	FC	Dia.
6	5.5	5.1
8	3.1	8.6
10	2.0	8.4
12	1.4	10.1
14	1.0	11.8
16	0.8	13.5



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	198	193	198	198	198
5	193	193	193	193	193
15	161	161	161	161	161
25	116	116	117	117	117
35	72	72	72	73	73
45	39	39	39	39	40
55	21	20	21	21	21
65	11	11	11	11	11
75	6	6	6	6	6
85	1	1	2	1	1
90	0	0	0	0	0

THIS PRODUCT IS NO LONGER AVAILABLE
PLEASE SPECIFY LRR-04017-43

* 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
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.

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.

Lenses - Mounted in Porthole Trim

- 18 Flat opal glass lens.

Porthole Trims

- 30 White acrylic enameled finish.

- 32 White oversize trim ring. Specify C.D.
- 33 Decorative acrylic and tempered glass Glow Ring suspended trim assembly. See www.kirlinlighting.com for complete information.
- 35 Natural aluminum acrylic enameled finish.
- 37 Dark Bronze acrylic enameled finish.
- 38 Black acrylic enameled finish.
- 46 Gasket between trim and lens.
- 45 Gasket between trim flange and ceiling.
- 79 Collar for ceilings up to 2 5/8" or consult factory.
- 94 Custom color/finish. Specify. Consult factory.
- BLF Black finial finish.
- BRF Brass finial finish.
- COF Cone shaped finials. Silver finish standard or select optional finish.
- CUF Custom color finial finish.
- ROF Round shaped finials. Silver finish standard or select optional finish.
- WHF White finial finish.
- NC Non-conductive spring clip sleeves to minimize risk of electric shock.

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.
- 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: 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 supplied 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, modification of the fixture without prior written authorization from the manufacturer will render the warranty void.
REV SEPT 2011