

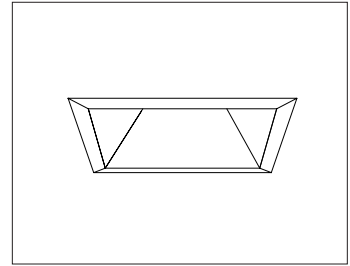
CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

4" 4 LED 12 SYSTEM WATTS

LRS-04051

Lensed Downlight • LED • Type IC

50,000+ Hour Life • 82 CRI • 4 Distributions • 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

- 0.5 SC Standard (NFL). Optional: 0.3 SC (SPT), 0.7 SC (MFL) or 1.0 SC (WFL).
- 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: -40°C (-40°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.

Electrically Isolated Trim

- Specular clear aluminum self-flanged and gasketed downlight square with lens on top.
- Non-conductive vinyl coated trim spring clips minimize risk of electric shock.
- Colors and specular 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

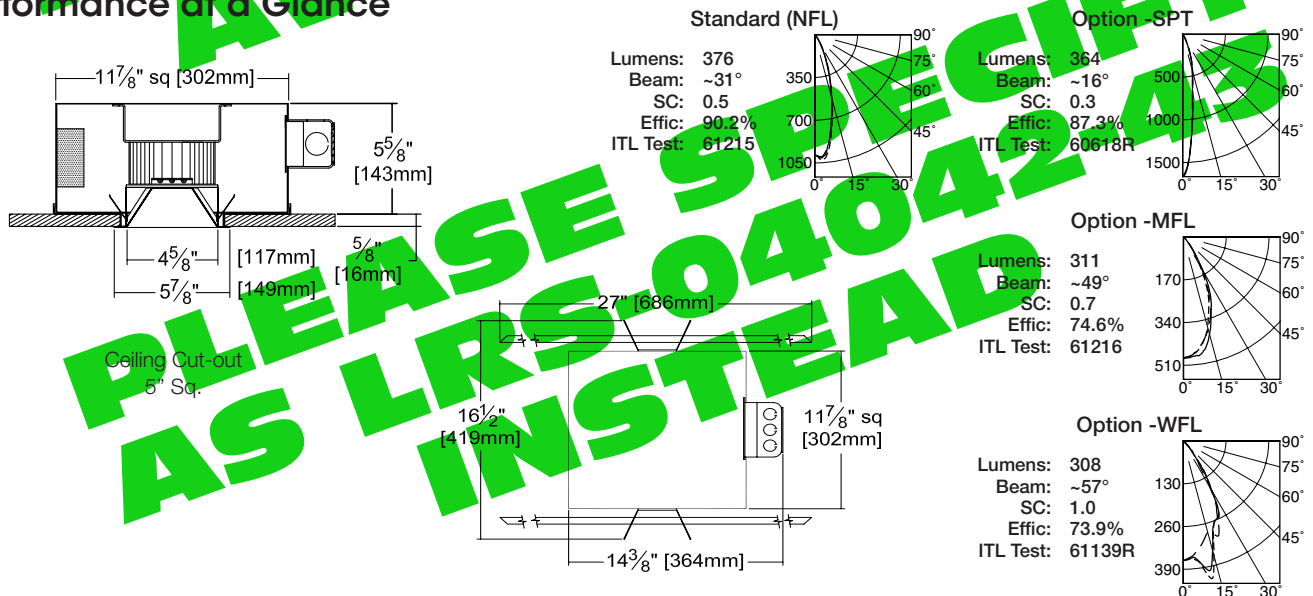
cover. Prewired 14 GA (NEC) with 1/2" and 3/4" knockouts.

Installation

- 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.
 - 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



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

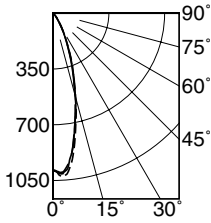
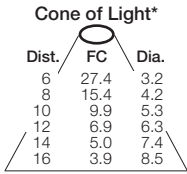
Detailed Photometry - Installed Fixture

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

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

LRS-04051 (NFL)

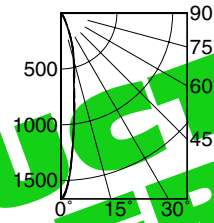
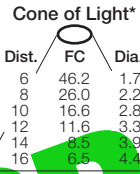
Lumens: 376
Beam: ~31°
SC: 0.5
Effic: 90.2%
ITL Test: 61215



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	987	987	987	987	987
5	1012	979	969	972	987
10	794	783	762	772	766
15	546	547	535	527	530
20	358	357	349	343	338
25	207	205	205	196	198
30	113	115	115	109	109
35	57	56	50	54	53
40	28	26	24	25	28
45	9	11	14	11	10
90	0	0	0	0	0

LRS-04051 (Option -SPT)

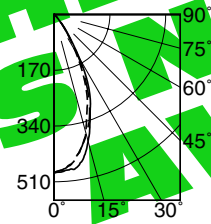
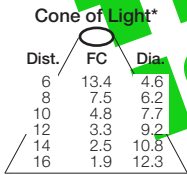
Lumens: 364
Beam: ~16°
SC: 0.3
Effic: 87.3%
ITL Test: 60618R



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	1664	1664	1664	1664	1664
5	1195	1190	1188	1198	1195
10	680	683	660	652	663
15	429	443	449	453	447
20	271	274	274	274	272
25	129	130	131	127	128
30	67	68	63	66	64
35	32	37	34	37	32
40	15	20	19	18	15
45	8	8	8	9	10
90	0	0	0	0	0

LRS-04051 (Option -MFL)

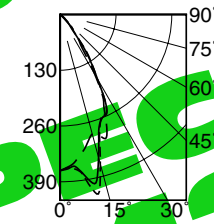
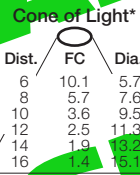
Lumens: 311
Beam: ~49°
SC: 0.7
Effic: 74.6%
ITL Test: 61216



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	482	482	482	482	482
5	465	467	465	473	476
10	430	426	429	447	459
15	373	373	378	389	400
20	296	301	316	321	321
25	217	216	235	245	252
30	129	131	145	153	155
35	70	65	67	73	77
40	27	31	35	34	31
45	12	13	13	13	14
90	0	0	0	0	0

LRS-04051 (Option -WFL)

Lumens: 308
Beam: ~57°
SC: 1.0
Effic: 73.9%
ITL Test: 61139R



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	364	364	364	364	364
5	361	364	349	350	355
10	408	335	320	329	393
15	361	322	288	314	345
20	272	285	308	281	270
25	254	250	242	253	256
30	171	166	161	168	173
35	110	93	79	84	100
40	45	49	54	43	37
45	21	15	6	11	18
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.

* 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.

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.

Optics

- MFL Medium flood 0.7 SC. (~49° distribution)
- SPT Spot 0.3 SC. (~16° distribution)
- WFL Wide flood 1.0 SC. (~57° distribution)

Trims

- 30 All white acrylic enameled trim. (CP x .95)
- 31 White acrylic enameled trim flange.
- 32 White oversize trim ring. Specify O.D.
- 46 Gasket between trim and lens.
- 59 Dark Bronze specular self-flanged trim. (CP x .80)
- 60 SofTex Dark Bronze self-flanged cone. (CP x .75)
- 63 Dune specular self-flanged cone. (CP x .93)
- 68 Matte black self-flanged cone. (CP x .70)
- 69 Wheat specular self-flanged cone. (CP x .92)
- 70 SofTex Clear self-flanged cone. (CP x .93)
- 71 SofTex Dune self-flanged cone. (CP x .89)
- 72 Black specular self-flanged trim. (CP x .80)
- 77 SofTex Pewter self-flanged trim. (CP x .85)
- 91 SofTex Wheat self-flanged trim. (CP x .88)
- 93 Pewter specular self-flanged trim. (CP x .88)
- 94 Custom color/finish. Specify. Consult factory.

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 7/8" with 3/8" 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 office 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.
LED LIGHTING
REV MAR 2011