

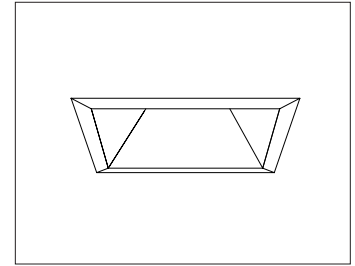
|           |         |         |
|-----------|---------|---------|
| CATALOG # | TYPE    |         |
| JOB NAME  | WATTAGE | VOLTAGE |

4" 4 LED 20 SYSTEM WATTS

LRS-04052

## Lensed Downlight • LED • Type IC

50,000+ Hour Life • 84 CRI • 4 Distributions • Air Tight Optional



### Specifications

#### LED Light Engine\*

- 20 watt LED array. 3500°K standard; optional 3000°K or 4100°K.
- 1050\* lumens, 50 lumens per watt (total system).
- 84 CRI, 50,000+ hour life.\*\*
- Fully sustainable: removable for servicing.

#### Optics

- 0.5 SC Standard (NFL). Optional: 0.4 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 90°C (194°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 Enamelled 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

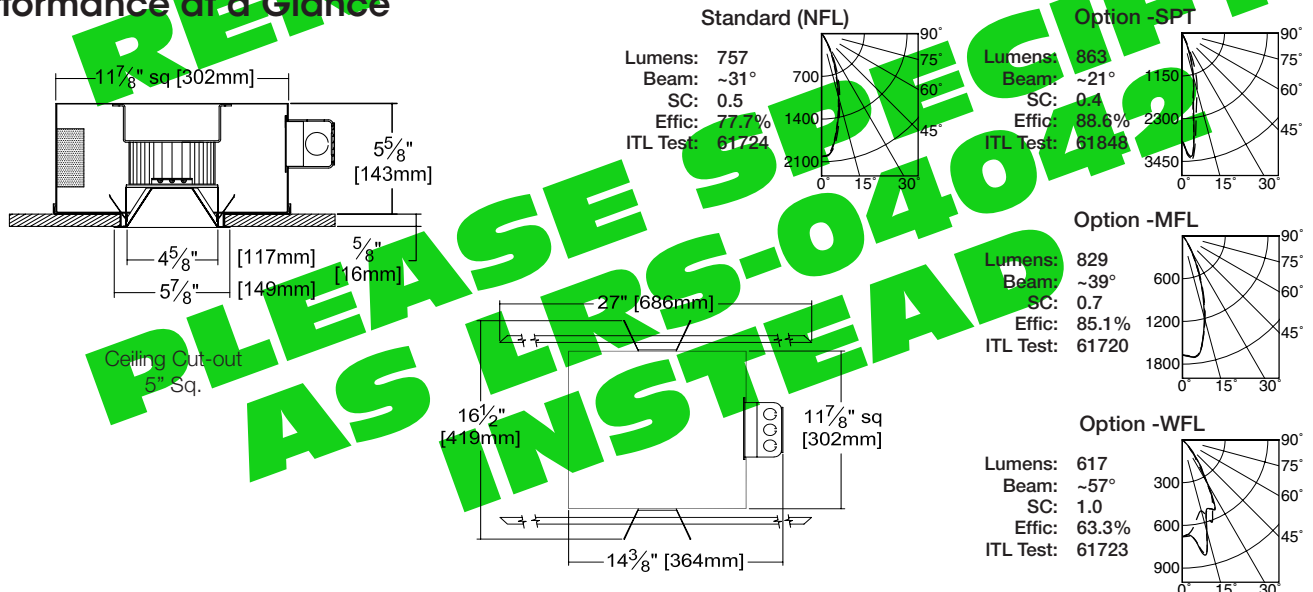
- Recesses indoor/outdoor in covered locations.
- Accommodates ceilings up to 1-1/8" thick or see Option -79.
- 27" galvanized hanger bars with adjustable mounting brackets (2) supplied.
- For residential mounting hardware for wood joist ceilings, see Option -RH.

#### 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

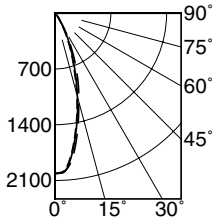
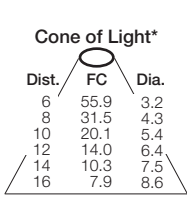
**Detailed Photometry - Installed Fixture**

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

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

**LRS-04052 (NFL)**

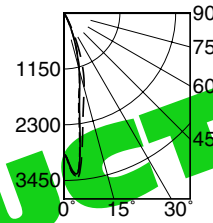
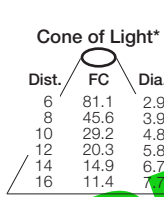
Lumens: 757  
Beam: ~31°  
SC: 0.5  
Effic: 77.7%  
ITL Test: 61724



| CANDLEPOWER DISTRIBUTION |      |      |      |      |      |
|--------------------------|------|------|------|------|------|
|                          | 0.0  | 22.5 | 45.0 | 67.5 | 90.0 |
| 0                        | 2014 | 2014 | 2014 | 2014 | 2014 |
| 5                        | 1894 | 1911 | 1934 | 1929 | 1918 |
| 10                       | 1486 | 1529 | 1572 | 1546 | 1509 |
| 15                       | 1054 | 1114 | 1150 | 1133 | 1080 |
| 20                       | 665  | 732  | 803  | 754  | 701  |
| 25                       | 386  | 423  | 483  | 454  | 422  |
| 30                       | 180  | 200  | 245  | 228  | 209  |
| 35                       | 84   | 81   | 81   | 85   | 93   |
| 40                       | 33   | 35   | 36   | 36   | 34   |
| 45                       | 16   | 15   | 16   | 15   | 16   |
| 90                       | 0    | 0    | 0    | 0    | 0    |

**LRS-04052 (Option -SPT)**

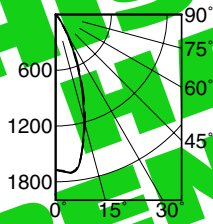
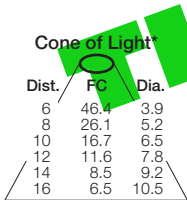
Lumens: 863  
Beam: ~21°  
SC: 0.4  
Effic: 88.6%  
ITL Test: 61848



| CANDLEPOWER DISTRIBUTION |      |      |      |      |      |
|--------------------------|------|------|------|------|------|
|                          | 0.0  | 22.5 | 45.0 | 67.5 | 90.0 |
| 0                        | 2918 | 2918 | 2918 | 2918 | 2918 |
| 5                        | 3291 | 3309 | 3385 | 3335 | 3297 |
| 10                       | 1745 | 2012 | 2234 | 2086 | 1825 |
| 15                       | 1195 | 1470 | 1593 | 1504 | 1186 |
| 20                       | 682  | 867  | 1050 | 900  | 665  |
| 25                       | 274  | 325  | 472  | 339  | 282  |
| 30                       | 79   | 86   | 118  | 90   | 85   |
| 35                       | 31   | 34   | 38   | 35   | 31   |
| 40                       | 18   | 20   | 18   | 20   | 17   |
| 45                       | 9    | 11   | 11   | 10   | 7    |
| 90                       | 0    | 0    | 0    | 0    | 0    |

**LRS-04052 (Option -MFL)**

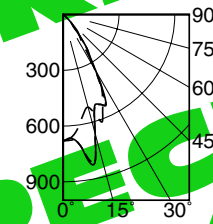
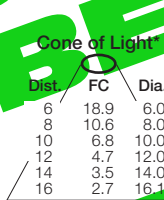
Lumens: 829  
Beam: ~39°  
SC: 0.7  
Effic: 85.1%  
ITL Test: 61720



| CANDLEPOWER DISTRIBUTION |      |      |      |      |      |
|--------------------------|------|------|------|------|------|
|                          | 0.0  | 22.5 | 45.0 | 67.5 | 90.0 |
| 0                        | 1672 | 1672 | 1672 | 1672 | 1672 |
| 5                        | 1413 | 1413 | 1708 | 1702 | 1707 |
| 10                       | 1068 | 1068 | 1562 | 1540 | 1564 |
| 15                       | 7205 | 1199 | 1820 | 1399 | 1183 |
| 20                       | 812  | 838  | 852  | 848  | 818  |
| 25                       | 379  | 495  | 528  | 517  | 490  |
| 30                       | 263  | 266  | 292  | 287  | 265  |
| 35                       | 115  | 123  | 127  | 132  | 123  |
| 40                       | 58   | 54   | 53   | 54   | 58   |
| 45                       | 20   | 24   | 30   | 23   | 18   |
| 90                       | 0    | 0    | 0    | 0    | 0    |

**LRS-04052 (Option -WFL)**

Lumens: 617  
Beam: ~57°  
SC: 1.0  
Effic: 63.3%  
ITL Test: 61723



| CANDLEPOWER DISTRIBUTION |     |      |      |      |      |
|--------------------------|-----|------|------|------|------|
|                          | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
| 0                        | 680 | 680  | 680  | 680  | 680  |
| 5                        | 676 | 661  | 650  | 662  | 675  |
| 10                       | 790 | 633  | 509  | 670  | 806  |
| 15                       | 656 | 588  | 616  | 597  | 663  |
| 20                       | 510 | 550  | 614  | 590  | 513  |
| 25                       | 537 | 514  | 501  | 525  | 541  |
| 30                       | 335 | 340  | 346  | 351  | 349  |
| 35                       | 219 | 186  | 164  | 184  | 222  |
| 40                       | 87  | 113  | 123  | 113  | 84   |
| 45                       | 54  | 40   | 22   | 37   | 53   |
| 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 975 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. Lutron Hi-lume approved.
- 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. (~39° distribution)
- SPT Spot 0.4 SC. (~21° 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**

JOB NAME \_\_\_\_\_  
TYPE \_\_\_\_\_  
WATTAGE \_\_\_\_\_ VOLTAGE \_\_\_\_\_  
CATALOG NUMBER \_\_\_\_\_

**APPROVAL STAMP**

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALLATION TO N.E.C. IS NORMAL USE. Manufacturer of the fixture will replace or repair such fixture or refund the purchase price or replacement of product purchased 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 terms 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.