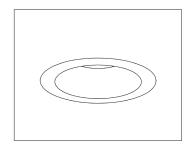


CATALOG #		TYPE	
JOB NAME	WATTAGE	VOLTAGE	

4" 4 LED 20 SYSTEM WATTS LRR-04012

# 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 (or see Options -30K or -41K).
- 1050\* lumens, 50 lumens per watt (total
- 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-aligns with trim for optimal performance.

#### Thermal Management

 All-aluminum prop <mark>finaire's cool operation and long li</mark> while minimizing maintenar

Performance at a Glance

#### LED Power Supply

 Suitable for outdoor / indoor us -40°C (-40°F) to 90°C (194°F

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

#### **Electrically Isolated Trim**

- Specular clear aluminum self-flanged and gasketed downlight cone with lens
- Non-conductive vinyl coa minimize risk of

#### Acrylic Enameled Aluminum Housing

- Shallow depth
- Cool operation:
- Fully sust<mark>ainable: Entire lumin</mark>
- ED light engine, easil hrough aperture
- able, see Option -AT. **Outlet Box**
- JL listed J-box with insulated removable

er. Prewired 14 GA (NEC) with ½" and ¾"

#### 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.
- or residential mounting hardware for wood eilings, 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.



### **FIVE YEAR Limited Warranty**

Complete standa

63.3%

61723

Effic: ITL Test:

#### Standard (NFL) Lumens: 757 Beam: ~31° 1/8" sq [302mm] SC: **Effic** 55/8" [143mm] Option -MFL Lumens: 829 [101g ~39° 51/2" 140r 0.7 SC: 85.1% Effic: ITL Test: 61720 5" Dia. $11\frac{7}{8}$ " sq Option -WFL [302mm] 617 Lumens: Beam: ~579 SC: 1.0

# THE KIRLIN COMPANY

14<sup>3</sup>/<sub>8</sub>" [364mm]

3401 EAST JEFFERSON AVENUE • DETROIT, MICHIGAN 48207-4232 (313) 259-6400 • Fax: (313) 259-9409 or (313) 259-3121 • www.kirlinlighting.com

SYSTEM WATTS

CATALOG NUMBER

LRR-04012

JAN 201



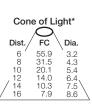
Photometry from I.T.L., Boulder, CO

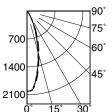
# **Detailed Photometry - Installed Fixture**

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

## LRR-04012 (NFL)

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

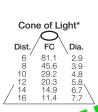


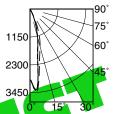


CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	2014	2014	2014	2014	2014
5	1894	1911	1934	1929	1918
10	1486	1529	1572	1546	1509
15	1054	1114	1150	1133	1080
20	665	732	803	754	701
25	386	423	483	454	422
30	180	200	245	228	209
35	84	81	81	85	93
40	33	35	36	36	34
45	16	15	16	15	16
90	0	0	0	0	0

# LRR-04012 (Option -SPT)

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





C	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	

IMITED WARRANTY: CATALOGED KIRLIN FXTURES ARE WARRANTIED FREE OF DEFECTS IN WORKMAISHIP OR MATERIAL INTO THE WARRANTY CATALOGED FOR MATERIAL TO THE WARRANTY CATALOG TO THE WA

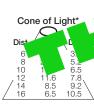
YEARS FROM DATE OF PURCHASE, INSTALLED TO N.E.C., YEARS FROM DATE OF PURCHASE, INSTALLED TO N.E.C., stall not be liable for any other damages, direct or indirect, sustained or suffout prior ture, improper installation, or repair, or modification of the fixture without prior

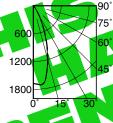
IN NORMAL

will replace or repair such fixture or refund the purchase price on presen-plied to the buyer in place of all other warranties, expressed or implied. Jer the warranty void.

## LRR-04012 (Option -MFL)

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



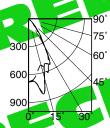


					_		_
١	C	ANDLEPOWER DISTRIBUTION					
ı		0.0	22.5	45.0	67.5	90.0	4
ı	0	1672	<b>16</b> 72	1672	1672	1672	
ı	5	1713	1713	1708	1702	1707	
J	10	1568	1556	1562	1540	1564	
ı	15	1205	1199	1220	1199	1183	
ı	20	812	828	852	848	<b>8</b> 18	
ı	25	479	496	528	517	490	\
١	30	253	266	292	287	265	Α
ı	35	115	123	127	132	123	1
ı	40	58	54	53	54	58	
١	45	20	24	30	23	18	
1	90	0	0	0	0	0	

# LRR-04012 (Option -WFL)

617 Beam:





	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	609	569	610	806		
15	656	598	516	<b>5</b> 97	663		
20	519	550	614	540	513		
25	537	514	501	525	541		
30	365	340	346	<b>3</b> 51	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		

- LED manufacturers maintain a tolerance of  $\pm 7\%$  on flux (lumens) and power photometrics are actual test data from Independent Testing Laboratories (IT LED manufacti from 975 lumen light engines (within the established tolerance).
- \*\* LED Operating Characteristics: 50,000 hours at 70% LED

# istance from fixture

Footcandles at nadir (0°) Circle of light at 50% of FC

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

# **Options**

### LED Power Supp

- Dimmable je. Consult factory for b Specify volta availability and pricing. Lutron Specify other voltage. Consult -97
- -SS Remote mounted Kirlin Smarts 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 CF 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)

- -30 mel
- -31 ed cone fla
- -32 trim ring 46
- eone. (CP x .80) -59 Dark Bron
- anged cone. (CP x .75) -60
- flanged cone. (CP x .93)
- -68 self-flanged cone. (CP x .70)
- leat 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)
- Black specular self-flanged cone. (CP x .80) -72
- SofTex Pewter self-flanged cone. (CP x .85)
- SofTex Wheat self-flanged cone. (CP x .88) -93 Pewter specular self-flanged cone. (CP x .88)
- Custom color/finish. Specify. Consult factory.

- ber filter.
- Dichroic Peach filter.
- -GF Green / Botanical filter.
- Hexcel louver.
- -MB Medium Blue filter.
- -PK Pink / Rose filter
- -XF Custom filter other than shown. Specify.

### Other

- Extension collar for up to 2" thick ceilings.
- Special modification. Consult factory.
- 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.
- Residential mounting hardware instead. Suitable for wood joist ceilings with spacing from 141/8" to 251/8" with 5/8" vertical adjustability.

# SUBMITTAL DATA

APPROVAL STAMP

JOB NAME

**TYPE** 

WATTAGE **VOLTAGE** 

**CATALOG NUMBER** 

REV JAN