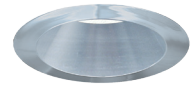


CATALOG #	TYPE
JOB NAME	VOLTAGE

Open Appearance 4" Downlight • LED

Up to 90,000 Hour Life • Type IC • Wet Location
LM-80 Qualified • LM-79 Certified Photometry

GRR-04002-2000L
GRR-04002-1500L



Specifications

Delivered System Performance*

- Lumen Series: **MUST SPECIFY**
 - 2000L: 2000 nominal lumens (25W).
 - 1500L: 1500 nominal lumens (20W).
- Distribution: MFL standard.
- Optional: -SPT, -WFL or -WFL.
- Color temperature: 3500°K standard.
- Optional: -27K, -30K or -41K.
- CRI: 80+ standard.
- 90,000 hour life (L70**).
- Fully sustainable: removable for servicing.

Thermal Management System

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

LED Power Supply - INTERNAL

- Suitable for outdoor / indoor use.
- 30°C (-22°F) to 40°C (104°F).
- 120-277V / 50-60 Hz standard. Load insensitive.

- 0-10V CCR dimming standard. (100-10%)

Trim Assembly

- Low brightness clear aluminum self-flanged downlight cone with lens above.

Acrylic Enameled Aluminum Housing

- Rustproof and corrosion resistant: Exceeds 1000 hours ASTM B59 salt spray test.
- Shallow depth for restricted penetration.
- Cool operation: water-tight, no convection.
- Fully sustainable: Entire luminaire, including LED light engine, is modular, easily visible and serviced through air-tight, self-flanged trim.
- Build in place, finish.

Mounting Box

- UL listed J-box with insulated removable cover. Prewired 14 GA (NEC) with 1/2" and 3/4" knockouts.
- UL listed J-box with insulated removable cover. Prewired 14 GA (NEC) with 1/2" and 3/4" knockouts.
- Accommodates ceilings up to 1-1/8" thick.
- 27" galvanized hanger bars with adjustable mounting brackets (2) supplied.

Installation

- Access in plenum or attic required.
- Accommodates ceilings up to 1-1/8" thick.
- 27" galvanized hanger bars with adjustable mounting brackets (2) supplied.



QuickShip
Program
Luminaire

THIS PRODUCT
IS NOW
AVAILABLE AS

LRR-04002

Some design features and
options might have changed

Product Number	Voltage	Options
GRR-04002-2000L GRR-04002-1500L	-120 (120 volts) -277 (277 volts)	See "Options" below

Ordering Example:

GRR-04002-2000L-120-30K-NFL

Options

Input Power: SPECIFY

- 120 120V (50-60Hz) input.
- 277 277V (50-60Hz) input.

LED Power Supply

- EI Remote emergency inverter for 100% of rated lumens. Run time: 90+ minutes. 120 or 277V, 60 Hz input only. Specify voltage.

Color (CCT and CRI)

- 27K Color temperature 2700°K instead.
- 30K Color temperature 3000°K instead.
- 41K Color temperature 4100°K instead.

Options

- WFL Wide flood distribution.
- SPT Spot distribution.
- WFL Wide flood distribution.

Trim

- 45 Gasket between trim flange and ceiling.

Projected L70** for Kirlin Luminaires	
In Open Plenum	90,000 hours
In Insulation (Type IC)	60,000 hours

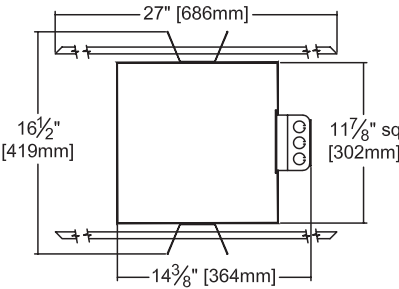
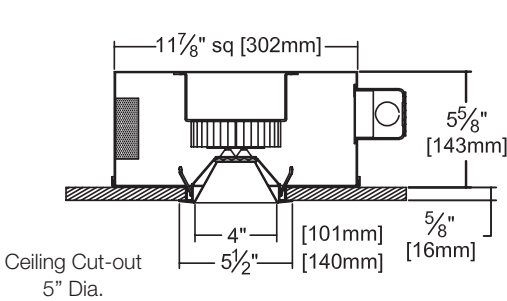
**Hours at 70% lumen maintenance



QuickShip
Program
Luminaire

- Orders received by 10 AM (ET) ship by 5 PM within 72 hours
- Fixtures ship complete. Freight allowed: Over \$7000
- 50 luminaires (max.) per type on each purchase order (or consult RSM)

Dimensions



QuickShip
Program
Luminaire

Detailed Photometry - Installed Fixture

Photometric testing done in accordance with IESNA LM-79

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

▲Cone of Light Key
(Dia. (in ft.) shown is where FC value is half the FC at nadir.)
Ft. Distance from fixture
FC Footcandles at nadir (0°)
Dia. Circle of light at 50% of FC

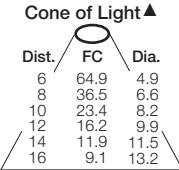
-1500L STANDARD (MFL)

Lumens: 1538
Beam: ~45°
SC: 0.8
LPW: 74
Effic: 76.1%
ITL Test: 87226



Total System Watts 20.9

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	2335	2335	2335	2335	2335
5	2371	2372	2376	2372	2367
10	2182	2273	2366	2316	2282
15	985	1089	1199	1126	1043
20	203	222	230	220	208
25	37	35	26	34	41
30	0	1	1	0	0
35	0	0	0	0	0
40	0	0	0	0	0
45	0	0	0	0	0
90	0	0	0	0	0



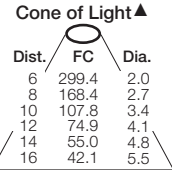
-1500L Option -SPT

Lumens: 1629
Beam: ~20°
SC: 0.3
LPW: 78
Effic: 80.6%
ITL Test: 87179



Total System Watts 20.9

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	10779	10779	10779	10779	10779
5	9337	9349	9332	9270	9315
10	1950	1984	2104	2162	2155
15	436	373	331	380	465
20	79	69	65	70	92
25	12	12	12	12	13
30	0	0	0	0	0
35	0	0	0	0	0
40	0	0	0	0	0
45	0	0	0	0	0
90	0	0	0	0	0



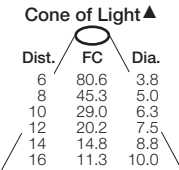
-1500L Option -NFL

Lumens: 1428
Beam: ~35°
SC: 0.6
LPW: 68
Effic: 70.6%
ITL Test: 87933



Total System Watts 20.9

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	2902	2902	2902	2902	2902
5	2797	2794	2800	2793	2793
10	1903	1929	1949	1910	1893
15	937	943	952	950	932
20	259	268	266	266	268
25	51	45	42	45	53
30	0	1	1	1	1
35	0	0	0	0	0
40	0	0	0	0	0
45	0	0	0	0	0
90	0	0	0	0	0



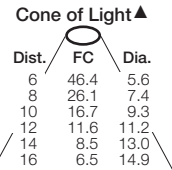
-1500L Option -WFL

Lumens: 1538
Beam: ~51°
SC: 0.9
LPW: 74
Effic: 76.1%
ITL Test: 87226-REV



Total System Watts 20.9

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	1663	1663	1663	1663	1663
5	1763	1763	1763	1763	1763
10	2097	2097	2097	2097	2097
15	1127	1127	1127	1127	1127
20	280	280	280	280	280
25	86	86	86	86	86
30	49	49	49	49	49
35	27	27	27	27	27
40	9	9	9	9	9
45	1	1	1	1	1
90	0	0	0	0	0



LM-80 Qualified • LM-79 Certified Photometry

* 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 2022 lumen (-1500L) light engines (within the established tolerance).

LUMEN SERIES	LUMEN FACTOR	WATTAGE FACTOR	LPW FACTOR
-2000L	1.257	1.369	0.92
-1500L	1.000	1.000	1.00

SUBMITTAL DATA

JOB NAME

TYPE

CATALOG NUMBER

VOLTAGE

APPROVAL STAMP



LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE, INSTALLED TO N.E.C. IN NORMAL USE. Manufacturer at its 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 five 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 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. Abandonment of the fixture without prior written authorization from the manufacturer will void the warranty void.