

CATALOG #	TYPE
JOB NAME	VOLTAGE

Open Appearance 6" Downlight • LED

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

GRR-06003-2000L
GRR-06003-1500L



Specifications

Delivered System Performance*

- Lumen Series: -2000L: 2000 nominal lumens (25W). -1500L: 1500 nominal lumens (20W).
- Distribution: MFL standard. Optional: -SPT or -NFL.
- 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 60°C (140°F).
- 120-277V / 50-60Hz standard. Load insensitive.

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

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

Acrylic Enameled Aluminum Housing

- Rustproof and corrosion resistant: Exceeds 1000 hour ASTM 5% salt spray test.
- Show proof with aesthetically pleasing finish.
- Corrosion resistant enamel finish of all components.
- Fully sustainable: LED luminaire, including LED light engine, is modular, easily visible and serviced through aperture.

Easy in-place layering

- Unobstructed view through insulating removable cover. Prewired 14 AWG (NEC) with 1/2" and 3/4" knockouts.

Installation

- Accessible for color coding.
- Commercial ceilings up to 1/4" thick.
- Fully sustainable: 2-part epoxy adhesive mounting brackets (2) supplied.



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Luminaire

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.

IEC & FCC Compliance

- Meets IEC/EN 60601-1-2 electromagnetic compatibility standard for medical electrical equipment.
- FCC Part 15 certified for EMI/RFI emissions.

FIVE YEAR

Limited Warranty

- Complete standard fixture.

THIS PRODUCT IS NOW AVAILABLE AS
LRR-06003

MUST SPECIFY		OPTIONAL	
Product Number	Voltage	Color Temperature	Beam Angle
GRR-06003-2000L GRR-06003-1500L	120V (120 volts) 277V (277 volts)	27K (2700°K) 30K (3000°K) 41K (4100°K)	30° 36° 42°

Ordering Example:

GRR-06003-2000L-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.

Optics

- NFL Narrow flood distribution.
- SPT Spot distribution.

Trim

- 45 Gasket between trim flange and ceiling.
- 46 Gasket between trim and lens.

Projected L70** for Kirlin Luminaires

In Open Plenum	90,000 hours
In Insulation (Type IC)	60,000 hours

**Hours at 70% lumen maintenance

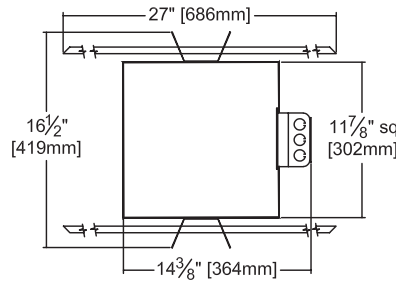
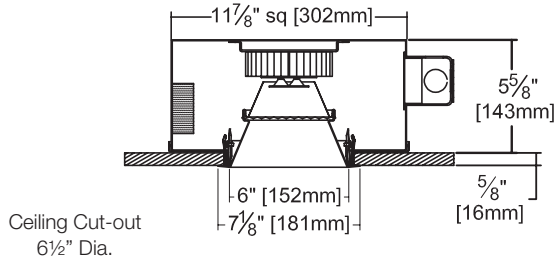
Some design features and options might have changed



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- 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



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Luminaire

Detailed Photometry - Installed Fixture

Photometric testing done in accordance with IESNA LM-79

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

-2000L STANDARD (MFL)

Lumens: 2140
Beam: ~48°
SC: 0.8
LPW: 84
Efficacy: 84.4%
ITL Test: 89244

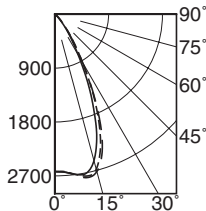


Total System Watts 25.6

	0.0	22.5	45.0	67.5	90.0
0	2628	2628	2628	2628	2628
5	2655	2661	2660	2660	2662
10	2680	2712	2720	2617	2532
15	1580	1631	1625	1458	1372
20	512	511	493	458	436
25	135	129	117	121	121
30	35	34	34	34	34
35	5	5	5	5	5
40	0	0	0	0	0
45	0	0	0	0	0
90	0	0	0	0	0

Cone of Light ▲

Dist.	FC	Dia.
6	73.0	5.3
8	41.1	7.1
10	26.3	8.8
12	18.3	10.6
14	13.4	12.4
16	10.3	14.1



-2000L Option -SPT

Lumens: 2145
Beam: ~20°
SC: 0.3
LPW: 84
Efficacy: 84.6%
ITL Test: 87941

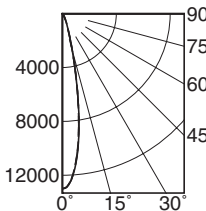


Total System Watts 25.6

	0.0	22.5	45.0	67.5	90.0
0	12990	12990	12990	12990	12990
5	11163	11248	11186	11239	11258
10	2842	2880	2802	2798	2788
15	606	524	470	527	605
20	162	133	122	134	160
25	33	34	34	34	34
30	8	8	8	8	8
35	0	0	0	0	0
40	0	0	0	0	0
45	0	0	0	0	0
90	0	0	0	0	0

Cone of Light ▲

Dist.	FC	Dia.
6	360.8	2.1
8	203.0	2.8
10	129.9	3.5
12	90.2	4.2
14	66.3	4.9
16	50.7	5.6



-2000L Option -NFL

Lumens: 1996
Beam: ~32°
SC: 0.6
LPW: 78
Efficacy: 78.7%
ITL Test: 87942

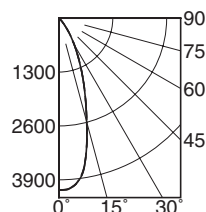


Total System Watts 25.6

	0.0	22.5	45.0	67.5	90.0
0	4149	4149	4149	4149	4149
5	4069	4059	4068	4060	4059
10	2603	2594	2598	2587	2588
15	1192	1188	1188	1184	1173
20	427	420	420	421	411
25	79	78	78	78	75
30	14	14	14	14	14
35	1	1	1	1	1
40	0	0	0	0	0
45	0	0	0	0	0
90	0	0	0	0	0

Cone of Light ▲

Dist.	FC	Dia.
6	115.3	3.5
8	64.8	4.7
10	41.5	5.9
12	28.8	7.1
14	21.2	8.3
16	16.2	9.4



-2000L Option -WFL

Lumens: 1855
Beam: ~61°
SC: 1.2
LPW: 72
Efficacy: 73.2%
ITL Test: 89246

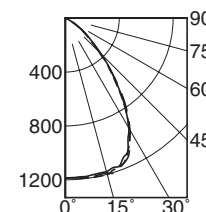


Total System Watts 25.7

	0.0	22.5	45.0	67.5	90.0
0	1186	1186	1186	1186	1186
5	1196	1190	1192	1188	1183
10	1203	1195	1190	1193	1179
15	1096	1103	1116	1095	1095
20	743	755	773	758	751
25	358	353	355	361	376
30	136	137	140	143	148
35	25	25	25	25	26
40	1	1	1	1	1
45	0	0	0	0	0
90	0	0	0	0	0

Cone of Light ▲

Dist.	FC	Dia.
6	32.9	7.1
8	18.5	9.5
10	11.9	11.8
12	8.2	14.2
14	6.1	16.6
16	4.6	18.9



See following page for -1500L performance

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 2535 lumen (~2000L) light engines (within the established tolerance).

▲ 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

SUBMITTAL DATA

JOB NAME

TYPE

VOLTAGE

CATALOG NUMBER

APPROVAL STAMP



LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE. INSTALLATION TO N.E.C. IS NORMAL USE. Manufacturer at his option will replace or repair such fixture or refund the purchase price on presentation of proof of purchase and evidence of failure at the office of manufacturer. Liability of manufacturer is limited to the original purchaser and shall not be liable for any other damages, direct or indirect, sustained or suffered by purchaser or any other person. This warranty is voided if the fixture is not installed, used, repaired, or modified in accordance with the manufacturer's instructions. This warranty is voided if the fixture is not installed, used, repaired, or modified in accordance with the manufacturer's instructions. This warranty is voided if the fixture is not installed, used, repaired, or modified in accordance with the manufacturer's instructions.

Detailed Photometry - Installed Fixture

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

GRR-06003-1500L PERFORMANCE

-1500L STANDARD (MFL)

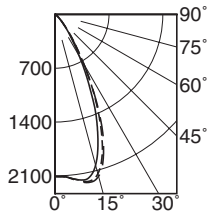
Lumens: 1707
Beam: ~48°
SC: 0.8
LPW: 91
Efficiency: 84.4%
ITL Test: 89232



Total System Watts 18.7

Cone of Light ▲

Dist.	FC	Dia.
6	58.6	5.3
8	32.9	7.0
10	21.1	8.8
12	14.6	10.6
14	10.8	12.3
16	8.2	14.1



	0.0	22.5	45.0	67.5	90.0
0	2108	2108	2108	2108	2108
5	2137	2135	2134	2133	2134
10	2146	2187	2180	2099	2030
15	1259	1297	1293	1169	1083
20	403	402	384	356	344
25	105	100	90	92	95
30	27	27	26	26	26
35	4	4	4	4	4
40	0	0	0	0	0
45	0	0	0	0	0
90	0	0	0	0	0

-1500L Option -SPT

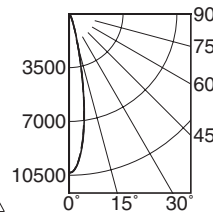
Lumens: 1706
Beam: ~20°
SC: 0.4
LPW: 91
Efficiency: 84.4%
ITL Test: 87182



Total System Watts 18.7

Cone of Light ▲

Dist.	FC	Dia.
6	287.1	2.1
8	161.5	2.8
10	103.3	3.5
12	71.8	4.2
14	52.7	4.9
16	40.4	5.6



	0.0	22.5	45.0	67.5	90.0
0	10334	10334	10334	10334	10334
5	8881	8948	8899	8941	8956
10	2261	2291	2229	2226	2218
15	482	417	374	419	481
20	129	106	97	107	127
25	26	27	27	27	27
30	6	6	6	6	6
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

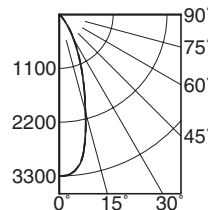
Lumens: 1588
Beam: ~33°
SC: 0.6
LPW: 85
Efficiency: 78.5%
ITL Test: 87934



Total System Watts 18.7

Cone of Light ▲

Dist.	FC	Dia.
6	91.7	3.5
8	51.6	4.7
10	33.0	5.9
12	22.9	7.1
14	16.8	8.3
16	12.9	9.4



	0.0	22.5	45.0	67.5	90.0
0	2419	2419	2419	2419	2419
5	2429	2437	2448	2451	2444
10	2341	2453	2516	2381	2248
15	1169	1247	1272	1103	993
20	279	289	271	259	238
25	70	67	58	63	63
30	11	11	10	10	10
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

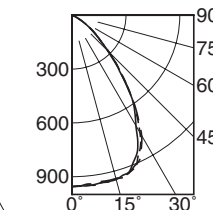
Lumens: 1471
Beam: ~61°
SC: 1.2
LPW: 79
Efficiency: 72.7%
ITL Test: 89235



Total System Watts 18.7

Cone of Light ▲

Dist.	FC	Dia.
6	26.5	7.0
8	14.9	9.4
10	9.6	11.7
12	6.6	14.1
14	4.9	16.4
16	3.7	18.7



	0.0	22.5	45.0	67.5	90.0
0	955	955	955	955	955
5	950	945	945	951	955
10	942	954	943	948	948
15	869	882	890	865	853
20	595	603	605	593	594
25	292	281	279	284	289
30	116	110	112	112	113
35	20	20	20	20	20
40	1	1	1	1	1
45	0	0	0	0	0
90	0	0	0	0	0



QuickShip
Program
Luminaire

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).

▲ 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

THE KIRLIN COMPANY

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