

CATALOG #	TYPE
JOB NAME	WATTAGE VOLTAGE

7" LED 1250 LUMENS

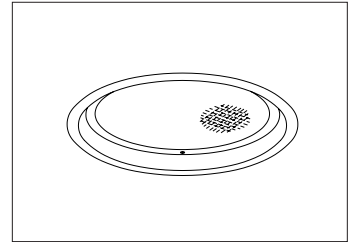
20 SYSTEM WATTS

LRR-07140

Sealed & Gasketed Downlight • LED • Type IC

Up to 90,000 Hour Life • 2 Distributions

LM-80 Qualified • LM-79 Certified Photometry • Wet Location



Specifications

LED Light Engine*

- 1250* lumens, 63 LPW (total system).
- 20 watt LED array. 3500°K standard (or see Options -30K or -41K).
- Up to 83 CRI and 90,000 hour life (L70**).
- For 90+ CRI, see Option -HC.
- 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

- **0-10V CCR dimming standard. (10-100%)**
- 120-277V / 50-60Hz standard. Load insensitive.
- Suitable for outdoor / indoor use: -30°C (-22°F) to 60°C (140°F).
- For Lutron HiLume dimming, see -39.
- Kirlin remote SmartSupply™ driver instead, see Option -SS.

Trim / Lens Assembly

- Rustproof 100% aluminum groovedless smooth, self-flanged white trim.
- Regressed tempered prismatic C#73 spread lens. Standard MFL distribution (0.7 SC).

- See Options for -NFL (0.4 SC) with tempered microprismatic glass lens.
- See Option -GE for green acrylic filter.

5X Sealed and Gasketed

- (1) Silicone seal between trim and lens seals lens to trim, (2) closed cell gasketing between trim and housing flange seals trim to housing, (3) closed cell gasketing on trim flange seals flange to ceiling (4) closed cell gasketing on bottom pan seals housing to ceiling and (5) neoprene O-rings on stainless steel fasteners seal fasteners to trim.
- Meets ASTM E283 restricted airflow of 2 CFM maximum.

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 light engine, is modular, easily visible, serviced through aperture. Built-in plaster flange.
- Air tight design (CCEA compliant) 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.

IP65

"IP65 Rated"

Sealed Housing Optional (CCEA)

Installation

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

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

CE & FCC Compliance

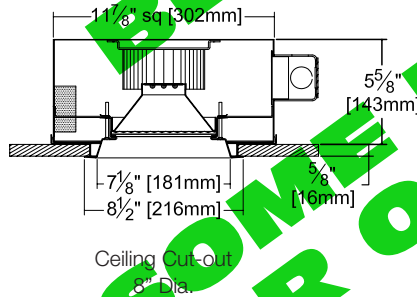
- Meets IEC/EN 60601-1-2 electromagnetic compatibility standard for medical electrical equipment.
- FCC Part 15 certified for EMI/RFI emissions.

5 Year

FIVE YEAR Limited Warranty

- Complete standard fixture.

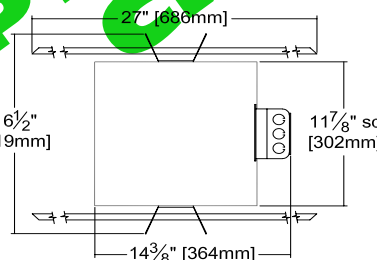
Performance at a Glance



FC CE

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

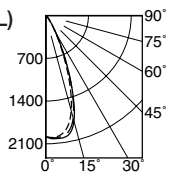
** Hours at 70% lumen maintenance



Exceptional Energy Efficiency

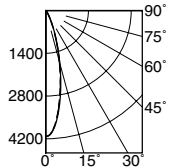
STANDARD (MFL) DISTRIBUTION

Lumens: 1164
Beam: ~40°
SC: 0.7
Effic: 93.5%
ITL Test: 70456



Option -NFL

Lumens: 1156
Beam: ~25°
SC: 0.4
Effic: 92.9%
ITL Test: 70455



THE KIRLIN COMPANY

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*See note next page

MAX. LUMENS

MAX. SYSTEM WATTS

CATALOG NUMBER

1250

20

LRR-07140

DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE. THE KIRLIN COMPANY EXPECTS PHOTOMETRIC PERFORMANCE TO IMPROVE SIGNIFICANTLY AND FREQUENTLY AS LED SOURCE TECHNOLOGY IMPROVES.

Detailed Photometry - Installed Fixture

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

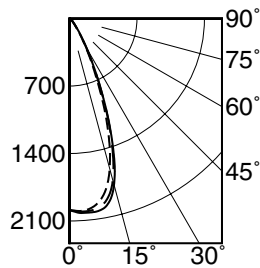
Photometry from I.T.L., Boulder, CO

STANDARD (MFL)

 Lumens: 1164
 Beam: ~40°
 SC: 0.7
 Effic: 93.5%
 ITL Test: 70456


Cone of Light ▲

Dist.	FC	Dia.
6	55.2	4.4
8	31.0	5.9
10	19.9	7.3
12	13.8	8.8
14	10.1	10.3
16	7.8	11.7



CANDLEPOWER DISTRIBUTION

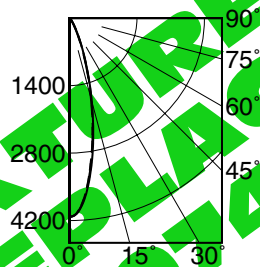
	0.0	22.5	45.0	67.5	90.0
0	1987	1987	1987	1987	1987
5	1993	1999	2007	2022	2022
15	1610	1655	1735	1776	1785
25	629	661	697	713	703
35	166	167	159	174	180
45	52	51	49	53	56
55	20	21	22	22	21
65	9	20	10	10	9
75	3	3	3	3	2
85	1	1	1	1	0
90	0	0	0	0	0

Option -NFL

 Lumens: 1156
 Beam: ~25°
 SC: 0.4
 Effic: 92.9%
 ITL Test: 70455


Cone of Light ▲

Dist.	FC	Dia.
6	114.4	2.7
8	64.4	3.6
10	41.2	4.4
12	28.6	5.3
14	21.3	6.2
16	16.1	7.1



CANDLEPOWER DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	4119	4119	4119	4119	4119
5	3688	3675	3699	3720	3727
15	1753	1737	1716	1753	1781
25	504	473	451	468	495
35	122	111	103	109	122
45	38	37	39	37	38
55	14	14	16	15	14
65	6	6	7	6	6
75	2	2	2	2	2
85	0	0	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 1243 lumen light engines (within the established tolerance).

▲ 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.

Options
LED Power Supply

- 39 Specify "-39(Lutron)" for Hi-Lume 3 wire full range (0-100%) PWM dimming instead.
- 97 Specify other voltage. Consult factory.
- EI Remote emergency inverter for 100% of rated lumens. Run time: 90+ minutes. 120 or 277V, 60 Hz input only. Specify voltage. Not for use with -SS SmartSupply™ driver.
- SS Remote mounted Kirlin SmartSupply™ driver, sold separately. Drives up to 12 (20W) luminaires. Order LPS-1220A (0-10V analog for 0-100% PWM dimming). Consult factory or see www.kirlinlighting.com for more information.

Color (CCT and CRI)

- 80K Color temperature 3000°K instead.
- 41K Color temperature 4100°K instead.
- HC 90+ CRI instead. 3000°K only. Consult factory for availability.

Optics

- NFL Narrow flood distribution. (0.4 SC)

Trims

- 32 White oversize trim ring. Specify O.D.
- 94 Custom color/finish. Specify. Consult factory.
- DF Electrically isolated "dead front" gasketed trim.
- GE Green acrylic filter mounted in lens assembly.

Other

- 99 Special modification. Consult factory.
- RH Residential mounting hardware instead. Suitable for wood joist ceilings with spacing from 14 1/8" to 25 7/8" with 5/8" vertical adjustability.
- AT Air tight version. Meets ASTM E283 restricted airflow of 2 CFM maximum. CCEA Approved.

SUBMITTAL DATA
APPROVAL STAMP

JOB NAME

TYPE

WATTAGE

VOLTAGE

CATALOG NUMBER