

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

20,000 Lumen Recessed Square LED Downlight

LRS-21600-20000L LRS-21600-15000L LRS-21600-10000L

Sport Court • Gym • High Ceilings

Wet Location • 1% Dimming • WFL • 5 CCT • 3-Step Binning •

LM-80 Qualified • LM-79 Certified Photometry



Specifications

Delivered System Performance

- Lumen Series: MUST SPECIFY:
 - 20.000L (216W)
 - -15,000L (167W) -10,000L (110W)
- · Distribution: WFL.
- Color temperature: 3500°K standard. Optional: -27K, -30K, -41K or -50K.
- CRI: 80+ standard. Optional: -HC (90+).
- 60,000 hour life (L70).

Thermal Protection: Voltage Specific

 Thermal protector for insulation detection per UL/NEC. Must specify input voltage.

Thermal Management System

· All aluminum 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 (100-1%).

Trim and Lens Assembly

- · Extruded seamless, fastener-free smooth white flat frame (trim). Rustproof and corrosion-resistant aluminum.
- Impact-resistant clear poly below prismatic high strength acrylic diffuser.
- Lens assembly internally secured to extruded trim. No visible hardware.

Acrylic Enameled Aluminum Housing

- Rustproof and corrosion-resistant: Exceeds 1000 hour ASTM 5% salt
- Shallow 9" depth fits restricted plenums.
- Cool operation: Extends life of all components.
- Entire luminaire, including LED light engine, is modular, easily visible and serviced through aperature.

Outlet Box

 UL listed J-box with insulated removable cover. Prewired 14 GA (NEC) with 1/2" and 34" knockouts.

Installation

- Recesses indoor or outdoor in covered locations
- Accommodates ceilings up to 1-1/8" thick.
- 27" galvanized hanger bars (2) with adjustable mounting brackets (4) supplied.

UL, C-UL (Canada) Listings

- · Wet, damp or dry locations, covered
- Through-branch conductors (4 #12 AWG 90°C).

FCC Compliance

 FCC Part 15 certified for EMI/RFI emissions

FIVE YEAR Limited Warranty

· Complete standard fixture.

| MUST SPECIFY | | OPTIONAL | |
|--|--------------------------------------|---------------------|---|
| Product Number | Voltage | Options | |
| LRS-21600-20000L LRS-21600-15000L LRS-21600-10000L | -120 (120 volts) -277 (277 volts) | See "Options" below | Ordering Example: LRS-21600-20000L-277-30K |

Options

Input Power: SPECIFY

-120 120V (50-60Hz) input for thermal protector. -277 277V (50-60Hz) input for thermal protector.

Color Temperature (CCT)

- -27K Color temperature 2700°K instead.
- -30K Color temperature 3000°K instead.
- -41K Color temperature 4100°K instead.
- -50K Color temperature 5000°K instead. -HC 90+ CRI instead. Consult factory.

Lens and Trim

-46

- White oversize trim ring. Specify outer dimension.
- Silver enamel (complete trim).
- Dark bronze enamel (complete trim). -37T -38T Black enamel (complete trim).
- -45 Gasket between trim flange and ceiling.
- Gasket between trim and lens. With 2 x 2 white (aluminum) pre-cut lay-in ceiling pan.
- Custom color trim. Specify. Consult factory.

Other

- Special modification, Consult factory,
- Remote emergency inverter for 25% of rated lumens. Runtime: 90+ minutes. 120 or 277V, 60 Hz input only. 50W. Specify voltage. Not for use with -FS. (Alternatively, see EMI-21220 for 100% of rated lumens.)
- Single in-line fuse. Not for use with Option
- NAT Modified for natatorium use.

Kirlin Lighting | 3401 E. Jefferson Ave., Detroit, MI 48207-4232, USA | P: 313.259.6400 | www.kirlinlighting.com

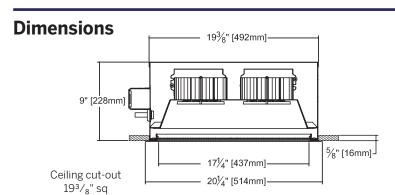


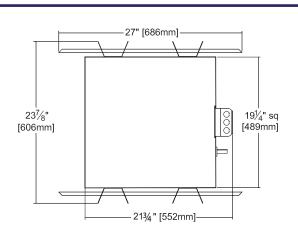


LRS-21600-20000L

PERFORMANCE





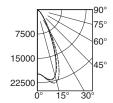


Detailed Photometry* - Installed FixturePhotometric testing done in accordance with IESNA LM-79

-20000L STANDARD (WFL)

Lumens: Beam: SC: LPW: ~48° 0.9 EEE 91.1 ITL Test: 93340





| Total | System | Watte | 216.2 |
|-------|--------|-------|-------|
| iotai | System | walts | 210.2 |

| CANDLEPOWER DISTRIBUTION | | | | | |
|--------------------------|-------|-------|-------|-------|-------|
| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
| 0 | 19557 | 19557 | 19557 | 19557 | 19557 |
| 5 | 20367 | 20373 | 20411 | 20409 | 20437 |
| 15 | 20970 | 20780 | 20978 | 22059 | 22878 |
| 25 | 11902 | 11250 | 10939 | 12382 | 13710 |
| 35 | 4426 | 4254 | 4214 | 4540 | 4823 |
| 45 | 2008 | 1997 | 1993 | 2076 | 2089 |
| 55 | 1122 | 1132 | 1135 | 1140 | 1137 |
| 65 | 626 | 642 | 630 | 625 | 623 |
| 75 | 252 | 259 | 250 | 252 | 248 |
| 85 | 27 | 28 | 27 | 28 | 28 |
| 90 | 0 | 0 | 0 | 0 | 0 |

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

| LUMEN SERIES | LUMEN FACTOR | WATTAGE FACTOR | LPW FACTOR |
|-----------------|-----------------|-------------------|---------------|
| -15000L | 0.771 | 0.744 | 1.04 |
| -10000L | 0.506 | 0.465 | 1.08 |

▲ Cone of Light Key Dia. (in ft.) shown is where FC value is half the FC at nadir.

Dist. Distance (Ft.) from fixture FC Footcandles at nadir (0°)
Dia. Circle of light at 50% of FC

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 an Independent Testing Laboratories (ITL) where photometry was measured from 20000 lumen light engines (within the established tolerance).

SUBMITTAL DATA

APPROVAL STAMP



JOB NAME

TYPE

WATTAGE **VOLTAGE**

CATALOG NUMBER

LIMITED WARRANITY CATALOGED KIRLIN LED FIX TURES ARE WARRANITED RREE OF DEFEOTS. IN WOORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE. INSTALLED TO LEC., IN NORMAL LUES, manufacturer at its option will repease or graphers. In its waterably is supplied to the buyer in place that of proof of purchases or advected in structure of the supplied to the buyer in place that the foreign gard manufacturer is all more is all more in supplied for my deter dramages, direct or indirect sustained or suffered by purchases or a supplied to the buyer in place that the foreign gard manufacturer is all more is all more in supplied to the supplied to the