

CATALOG #	TYPE
JOB NAME	VOLTAGE

## Static Color LED • 8" Downlight

Up to 60,000 Hour Life • Wet Location  
LM-80 Qualified • LM-79 Certified

LRR-08471-465  
LRR-08471-590  
LRR-08471-660



-465 Blue	(465nm)	Backstage Theatre
-590 Yellow / Amber	(590nm)	Turtle Friendly
-660 Red	(660nm)	Darkroom



Available - See Options

### Specifications

#### Delivered System Performance\*

- LED Color Suffix: **MUST SPECIFY**
- 465: Blue (465nm). 358 typical lumens.
- 590: Yellow/Amber (590nm). 906 typical lumens.
- 660: Red (660nm). 9.52 watts of radiant power.
- Distribution: WFL.
- 60,000 hour life (L70).
- Fully sustainable: removable for servicing.

#### 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. (100-10%)**

#### Trim

- Rustproof 100% aluminum grooveless, smooth, self-flanged white trim (field paintable).
- Regressed tempered prismatic spread lens with high efficiency reflector above.

#### Acrylic Enameled 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.
- Entire luminaire, including LED light engine, is modular, easily visible and serviced through aperture.
- Built-in plaster flange.

#### Outlet Box

- UL listed J-box with insulated removable cover. Prewired 14 GA (NEC) with ½" and ¾" knockouts.

#### Installation

- Recess indoor or outdoor.
- Accommodates ceilings up to 1-1/8" thick.
- Compatible with fire rated enclosures (by others).
- 27" galvanized hanger bars with adjustable mounting brackets (2) supplied.

#### 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).

#### IEC & 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.

MUST SPECIFY		OPTIONAL	Ordering Example: LRR-08471-590-120-25-35T
Product Number	Color	Options	
LRR-08471	-465 (blue 465nm) -590 (yellow/amber 590nm) -660 (red) 660nm	See "Options" below	

### Options

#### Input Power

- 97 Specify other voltage. Consult factory.

#### LED Power Supply

- ECO Digital driver for Lutron EcoSystem controls. Dims to 1% or consult factory.
- D1 0-10V 1.0% dimming instead.
- D2 0-10V 0.1% dimming instead.
- D3 DALI 1.0% dimming instead.
- D4 DALI 0.1% dimming instead.
- D5 DMX512A 0% dimming instead.
- EI REMOTE emergency inverter for 100% of rated lumens. Not available for -465 (blue 465nm). Run time: 90+ minutes. 120 or

277V, 60Hz input only. Specify voltage.

Not for use with Option -FS.

- EM INTERNAL emergency battery pack. Delivers ~500 lumens. Run time: 90+ minutes.
- ERH REMOTE emergency battery pack. Delivers ~1000 lumens. Run time: 90+ minutes. CEC Compliant.

#### Lens and Trim

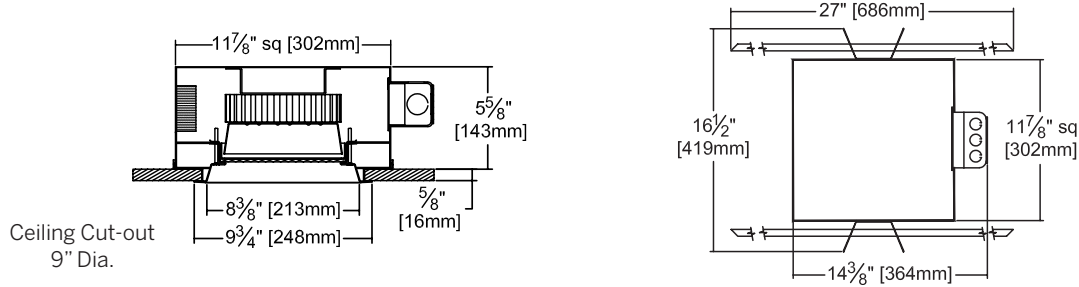
- 23 Frosted microprismatic lens instead.
- 25 Vandal resistant trim, hardware and lensing. Not available with Option -NS.
- 35T Natural aluminum acrylic enameled trim.

- 94 Custom color/finish. Specify. Consult factory.
- BG Anti-microbial Kirlin BioGard™ white (only) trim finish.
- I65 IP65 Rated trim instead.
- NS NSF approved fixture. Not available with Option -25.
- WA White acrylic (flat) diffuser instead.

#### Other

- 79 Extension collar for up to 2" thick ceilings.
- 99 Special modification. Consult factory.
- FS Single in-line fuse. Not for use with Option -EI.

Dimensions



Detailed Photometry - Installed Fixture

Photometric testing done in accordance with IESNA LM-79

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

LRR-08471-590 (Yellow/Amber: Turtle Friendly-590nm)

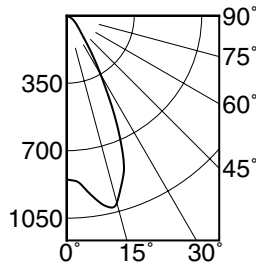
Lumens: 906  
 Beam: ~50°  
 SC: .94  
 LPW: 45  
 Efficiency: 72.4%  
 ITL Test: 90413-REV



Cone of Light ▲

Dist.	FC	Dia.
6	23.6	3.0
8	13.2	4.3
10	8.5	5.0
12	5.9	6.0
14	4.3	6.9
16	3.3	8.0

Total System Watts 20.9



	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	849	849	849	849	849
5	881	881	881	881	881
15	1005	1005	1005	1005	1005
25	609	609	609	609	609
35	198	198	198	198	198
45	83	83	83	83	83
55	46	46	46	46	46
65	22	22	22	22	22
75	7	7	7	7	7
85	1	1	1	1	1
90	0	0	0	0	0

COLOR SUFFIX	LED COLOR	TYPICAL APPLICATION	TYPICAL LUMENS	LUMEN FACTOR	SYSTEM WATTS	LUMENS / WATT	LPW FACTOR
-465	Blue (465nm)	Backstage Theatre	658	0.395	25.0	14.3	0.316
-660	Red (660nm)	Darkroom	9.52*	NA	19.0	NA	NA

\* 9.52 = watts of Radiant Power

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 UL Verification Services (UL) where photometry was measured from 2143 lumen 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. INSTALL TO N.E.C. IN NORMAL USE. Manufacturer at the 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 applied 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. Abnormal use, abuse of the fixture, improper installation, or repair or modification of the fixture without prior written authorization from the manufacturer will render the warranty void.