

CATALOG #	TYPE
JOB NAME	VOLTAGE

MRS-04772-1300L

RADIANCE™ 4" Square Adjustable Tunable† White LED • 1650-8000 CCT

†Circadian Rhythm Automated Control Versions Available (See Option -LWC)



Up to 50,000 Hour Life
Open Appearance

Specifications

Delivered System Performance*

- Lumen Series:
 - 1300L: 1300 nominal lumens.
- Distribution: MFL.
- 30 watts nominal power consumption.

Center Beam Optics

- Tilts up to 35° and locks in place.
 - Rotates full 360° and locks in place.
 - Accommodates sloped ceilings up to 35°.
- #### aray5 Logic Module (ALM) - Included
- <2 MacAdam ellipse color consistency over 50,000 hours.
 - On board thermal turndown.
 - Inline spectral capture and storage gives consistent CRI and CCT across all arrays.
 - Scene set (by others) allows up to 5 scenes to be pre-programmed and recalled using either 0-10V dimmer or Bluetooth.

Dimming & Color Control Interface Included (Also see Options):

- 0-10V with Bluetooth BLE included or see Options. Dims to 1%.

5 Color LED Array

- Tunable range: 1650 - 8000°K.
- CRI: 90+ standard.
- Dimmable to 1% at constant CCT
- L70 of 50,000 hours.

LED Power Supply - INTERNAL

- 120-277V / 50-60Hz input. Load insensitive.
- Suitable for outdoor / indoor use: -30°C (-22°F) to 50°C (122°F)..

Trim (Also see Options)

- Low brightness clear SofTex™ aluminum self-flanged angle cut trim with tempered glass lens 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.
- Fully sustainable: 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 1¼" 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 Non-IC: Not for direct contact with insulation.
- Through-branch conductors (4 #12 AWG 90°C).

IEC & FCC Compliance

- Meets IEC/EN 61000-3-2 electromagnetic compatibility standard.
- FCC Part 15 certified for EMI/RFI emissions.

5 Year FIVE YEAR Limited Warranty

- Complete standard fixture.

MUST SPECIFY	OPTIONAL	
Product Number	Dimming & Color Control Options	Options
MRS-04772-1300L	-DMX (DMX512A-RDM) -LWC (Legrand Wattstopper)	See "Options" below

Ordering Example:
MRS-04772-1300L-DMX-30

Options

Input Power

- 97 Specify other voltage. Consult factory.

Dimming & Color Control Interface: Specify One (Controls by Others)

- DAL For DALI system controls. Consult factory.
- DMX For DMX512A-RDM controls. Dim to black.
- ECO For Lutron EcoSystem controls. Dim to black. Consult factory.
- LWC For Legrand Wattstopper controls. Dim to black.

Trims

- 30 All white acrylic enameled trim.
- 31 White acrylic enameled trim flange.
- 32 White oversize trim ring. Specify O.D.
- 37 Dark Bronze acrylic enameled trim.
- 38 Black acrylic enameled trim.
- 37F Dark Bronze acrylic enameled trim flange.
- 38F Black acrylic enameled trim flange.
- 45 Gasket between trim flange and ceiling.
- 62 Clear specular self-flanged trim.
- 94 Custom color/finish. Specify. Consult factory.

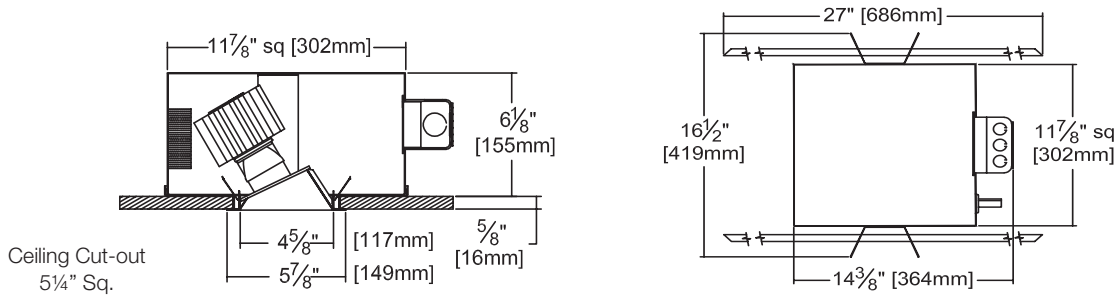
Other

- 79 Extension collar for ceilings up to 2" thick.
- 99 Special modification. Consult factory.
- FS Single in-line fuse.
- SH Sealed housing and junction box.

Also see
MCD-04010
for 0-10V
wall control



Dimensions



Detailed Photometry - Installed Fixture

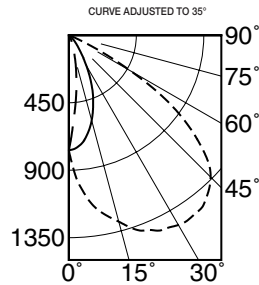
Photometry from I.T.L., Boulder, CO

Photometric testing done in accordance with IESNA LM-79

Lumens: 1249
Beam: ~58°
SC: 0.7
LPW: 33
Efficiency: 62.5%
ITL Test: 91529



Total System Watts 38.0



CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	768	768	768	768	768
5	1037	957	743	551	484
15	1287	1075	588	235	158
25	1437	1078	355	74	38
35	1459	908	138	21	12
45	1337	592	49	7	3
55	874	285	10	1	0
65	133	25	1	0	0
75	3	1	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

Multiplier Values (non-dimmed)

Tested with circadian module set at 3500°K

CCT	LUMEN FACTOR	WATTAGE FACTOR	LPW FACTOR
1650	0.550	0.651	0.84
2000	0.724	0.739	0.98
2500	0.947	0.900	1.05
3000	1.004	1.007	1.00
3500	1.000	1.000	1.00
4000	0.984	0.992	0.99
4500	0.972	1.006	0.97
5000	0.950	1.021	0.93
5500	0.905	0.974	0.93
6000	0.839	0.884	0.95
6500	0.782	0.834	0.94
7000	0.723	0.793	0.91
7500	0.680	0.765	0.89
8000	0.641	0.739	0.87

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 2000 lumen (-1300L) light engines (within the established tolerance).

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. INSTALLER 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 the years of original shipment. Liability of manufacturer is limited to the original purchase price of the fixture. This warranty is void if the fixture is not installed, used, or modified in accordance with the manufacturer's instructions. Seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty or amend the 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.