KIRLIN
Since 1895
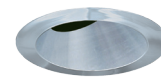
CATALOG #		TYPE
JOB NAME		VOLTAGE

MRR-04754-1300L

RADIANCE™ 4″ Round 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°.

araya⁵ 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 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 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**	
MRR-04754-1300L	**-DMX** (DMX512A-RDM) **-LWC** (Legrand Wattstopper)	See "Options" below	**Ordering Example:** **MRR-04754-1300L-**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.
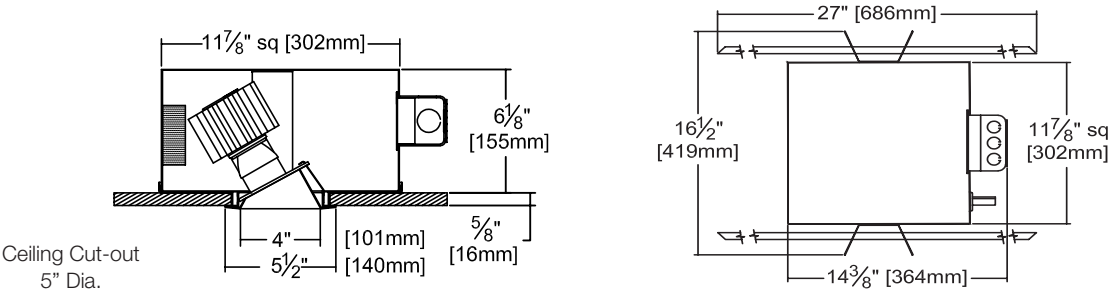-94   Custom color/finish. Specify. Consult factory.

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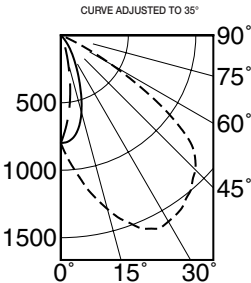
Also see MCD-04010 for 0-10V wall control

KIRLIN
Lighting Since 1895

The Kirlin Company
3401 EAST JEFFERSON AVENUE • DETROIT, MICHIGAN 48207-4232
(313) 259-6400 • Fax: (313) 259-3121 • www.kirlinlighting.com

MEDICAL
LED LIGHTING

*See note next page

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.

MRR-04754-1300L

PERFORMANCE

Dimensions

11⅞" sq [302mm]

6⅛" [155mm]

Ceiling Cut-out
5" Dia.

4" [101mm]
5½" [140mm]
⅝" [16mm]

27" [686mm]

16½" [419mm]

11⅞" sq [302mm]

14⅜" [364mm]

Detailed Photometry - Installed Fixture

Photometric testing done in accordance with IESNA LM-79

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

Lumens: 1261
Beam: ~55°
SC: 0.7
LPW: 33
Efficiency: 63.1%
ITL Test: 91525

EEE

Total System Watts 38.3

CURVE ADJUSTED TO 35°

CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	799	799	799	799	799
5	973	912	782	660	612
15	1333	1149	589	280	204
25	1581	1191	285	62	44
35	1563	1001	107	15	11
45	1410	658	17	4	3
55	898	163	3	1	0
65	101	7	0	0	0
75	2	0	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

VOLTAGE

CATALOG NUMBER

APPROVAL STAMP

ARRA QUALIFIED
RECOVERY.GOV