

CATALOG #	TYPE
JOB NAME	VOLTAGE

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

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

MRS-04778-1300L



Up to 50,000 Hour Life Regressed Lens • White Trim

Specifications

Delivered System Performance*

- · Lumen Series:
 - -1300L: 1300 nominal lumens.
- · Distribution: WFL.
- 30 watts nominal power consumption.
 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 Assembly

- Tapered aluminum all white smooth selfflanged trim (field paintable).
- Regressed tempered microprismatic lens.

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.



FIVE YEAR Limited Warranty

Complete standard fixture.

MUST SPECIFY	OPTIONAL		
Product Number	Dimming & Color Control Options	Options	
MRS-04778-1300L	-DMX (DMX512A-RDM) -LWC (Legrand Wattstopper)	See "Options" below	Ordering Example: MRS-04778-1300L-DMX-94

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

Lens and Trim

- -13 Clear poly lens below lens. Photometric distribution is unaffected.
- -23 Frosted microprismatic lens instead.
- -32 White oversize trim ring. Specify O.D.
- -35T Silver (natural aluminum) acrylic enameled trim.
- -37T Dark bronze acrylic enameled trim.
- -38T Black acrylic enameled trim.
- -45 Gasket between trim flange and ceiling.
- -46 Gasket between trim and lens.
- -94 Custom color/finish. Specify. Consult factory.
- -BG Anti-microbial Kirlin BioGard™ white (only) trim

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





The Kirlin Company

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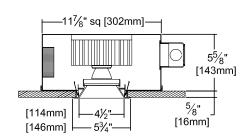


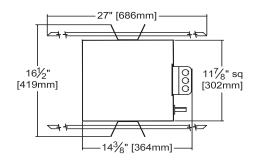
MRS-04778-1300L

PERFORMANCE



Dimensions





Ceiling Cut-out 51/4" Sq.

Detailed Photometry - Installed Fixture

Photometric testing done in accordance with IESNA LM-79

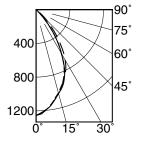
Photometry from I.T.L., Boulder, CO

Lumens: 1142
Beam: ~48°
SC: 0.9
LPW: 31
Efficiency: 57.1%
ITL Test: 91527

Total System Watts 37.5

EEE





CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	1253	1253	1253	1253	1253
5	1206	1204	1204	1212	1199
15	1022	1022	1018	1021	1030
25	790	800	822	803	801
35	410	443	509	448	407
45	56	94	180	93	57
55	2	4	9	4	2
65	0	0	0	0	0
75	0	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

ССТ	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).

▲ 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

SUBMITTAL DATA

APPROVAL STAMP

ARRA

LIMITED WARRANTY: CATALOGED KRILIN FXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMAKSHIP OR MATERIAL FOR FUE YEARS FROM DATE OF PURCHASE, INSTALLED TO N.E.C., INOTALLED IN EXPORT OF PURCHASE, INSTALLED TO N.E.C., INSTALLED TO N.E.C., INSTALLED THE MATERIAL FOR FUEL FAILED FOR A TRANSPORT OF PURCHASE, INSTALLED TO N.E.C., INSTALLED THE WARRANTY FOR MATERIAL FOR FUEL FOR THE WARRANTY FOR THE WARRA

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ir such fixture or refund the purchase price on presentation or lace of all other warranties, expressed or implied. Seller does