

DATE

PROJECT

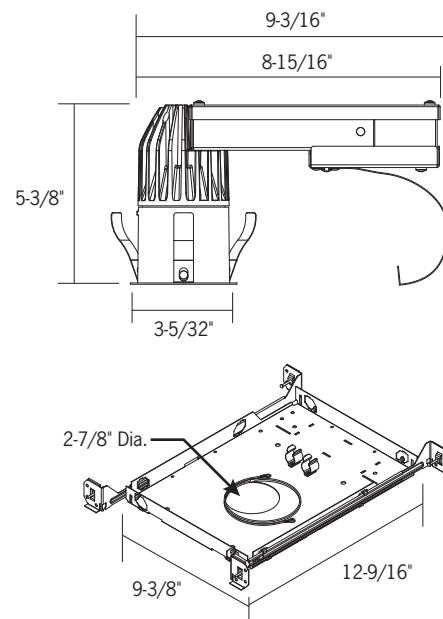
TYPE

R2RMWD | 2" Warm Dimming LED Downlight: New Construction and Remodel Housing

WATTAGE	13W
LUMEN OUTPUT ¹	800Lm
COLOR TEMPERATURE	3000K – 1800K
CRI	90
BEAM SPREAD	17° Spot/28° Medium/38° Flood 63° Wide Flood/Wall Wash
SYSTEM RATING	50,000 Hours @ 70% Lumen Maintenance
DRIVER INPUT WATTAGE	13W
DRIVER INPUT CURRENT (A) 120/277	.10/.04
DRIVER INPUT VOLTAGE Dimming (Triac, ELV, 0-10V) Lutron EcoSystem® Dimming	90-305V AC, 50/60Hz 120-277V AC, 50/60Hz
DRIVER Power Factor THD	> 0.90 < 20%
LISTING	cCSAus Certified using U.S. (UL) and Canadian (CSA) Standards The standard Wall Wash (WW) housing/trim combination is suitable for damp locations; all other options are suitable for wet locations Conforms to Washington State Energy Code for low air infiltration; tested in accordance with ASTM E283 CP Housings are Chicago Plenum CCEA listed Assembled in the USA
WARRANTY	Five (5) year replacement after date of purchase



Ceiling Opening: 2-7/8"
Ceiling Thickness: 1/2" – 1"



Optional Mounting Frame: NCF1

1. Lumen values are approximate, see photometric test results

For Ordering Information, see page 2

DATE

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Ordering Information

Example Order: R2RMWD1MVD4M-CP

Housing	LED Series	Electrical/Dimming	Beam Distribution	Options
R2RM - Non-IC, StopAire Remodel Housing	WD1 - 13W/1000Lm 90 CRI	MVD¹ - 120/277V Triac, ELV and 0-10V Dimming MVD4 - Lutron Hi-Lume 1% EcoSystem LED Driver with Soft-on, Fade-to-Black	S - 17° Spot M - 28° Medium F - 38° Flood WF - 63° Wide Flood WW - Wall Wash	CP - Chicago Plenum
		<small>1. Triac and ELV Dimming for 120V only</small>		

Replacement Optics and Accessories

Standard Hanger Bars Supplied with Housing

- 2INOPTIC-S-RA2** - Spot Beam Replacement Optic
- 2INOPTIC-M** - Medium Beam Replacement Optic
- 2INOPTIC-F** - Flood Beam Replacement Optic
- 2INOPTIC-WF** - Wide Flood Beam Replacement Optic
- NCF1** - New Construction Mounting Frame
- RL-KIT** - Commercial Mounting Brackets (When Used with NCF1)
- HB-24** - 27" Flat Hanger Bars for RL-KIT
- HBC-24** - 25" C-Channel Hanger Bars for RL-KIT in Grid Ceiling Construction
- HB-30** - T-Bar Hanger Set (When Used with NCF1)

DATE

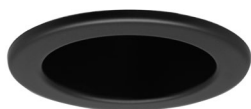
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Trims

Note: R2AWD and R2RMWD Series trims are NOT compatible with each other.



CST2322L-BLK

Matte Black Painted Reflector



CST2322L-WHT

Matte White Painted Reflector



CST2322L-CLR*

Anodized Clear Reflector



CST2322L-PL*

Anodized Platinum Reflector



CST2322LDF-SL*

Satin Silver Painted Reflector



CST2322LDF-WHT

Matte White Painted Reflector



CST2322L-PLWHE

Anodized Platinum Wheat Reflector



CST2322L Series

Specification Grade Reflector Trim

OD: 3-1/2"; ID: 2-1/2"

Trim is wet location certified without the need for lensing. Accepts one (1) FA-16 60MM 2-3/8" Dia. Black Honeycomb Louver or (1) LF16 60MM 2-3/8" Dia. Tempered Glass Lens.

*Available with White Painted Flange, add -WPF to part number



CST2322LDF Series

ISOWET Dead Front Reflector Trim

OD: 3-1/2"; ID: 2-1/2"

Isolated, wet location approved thermoplastic reflector with clear glass lens. Lens is deeply regressed inside top of reflector. Cannot be used with additional lens or louver.

*Available with White Painted Flange, add -WPF to part number



CTR2323L-BLK

Matte Black Painted Wall Wash Reflector



CTR2323L-CLR*

Anodized Clear Wall Wash Reflector



CTR2323L-PL*

Anodized Platinum Wall Wash Reflector



CTR2323L-WHT

Matte White Painted Wall Wash Reflector

2-3/8" Dia. Lenses/Louver

FA-16 60MM - Honeycomb Louver

LF16- 60MM** - 2-3/8" Diameter Lenses

**Color/Pattern Legend

-A (Amber), -B (Blue), -CL (Clear), -DPE (Dichroic Peach), -G (Green), -LB (Light Blue), -R (Red), -RO (Rose), -Y (Yellow), -73 (Spread Lens), -LS (Linear Spread Lens), -SL (Soft Light), -SOL (Solite), -UV (Optivex UV Filter)



CTR2323L Series

Wall Wash Reflector

OD: 3-1/2"; ID: 2-5/16"

Angled TIR optic enables precise light control. Cannot be used with lenses or louvers.

*Available with White Painted Flange, add -WPF to part number

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Trims

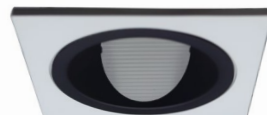
Note: R2AWD and R2RMWD Series trims are NOT compatible with each other.



CST2322LSQ-CLR-(B,P)
Clear Specular Reflector
Black or White Square Trim Plate



CST2322LSQ-PL-(B,P)
Platinum Reflector
Black or White Square Trim Plate



CTR2323LSQ-CLR-(B,P)
Clear Wall Wash Trim
Black or White Square Trim Plate



CTR2323LSQ-PL-(B,P)
Platinum Wall Wash Trim
Black or White Square Trim Plate



CST2322LSQ-BLK-(B,P)
Black Reflector
Black or White Square Trim Plate



CST2322LSQ-WHT-P
White Reflector
White Square Trim Plate



CTR2323LSQ-BLK-(B,P)
Black Wall Wash Trim
Black or White Square Trim Plate



CTR2323LSQ-WHT-P
White Wall Wash Trim
White Square Trim Plate

CST2322LSQ Series
Specification Grade Reflector with Square Trim Plate
OD: 3-1/2" SQ.; ID 2-1/2"

Trim is wet location certified without the need for lensing. Accepts one (1) FA-16 60MM 2-3/8" Dia. Black Honeycomb Louver or (1) LF16 60MM 2-3/8" Dia. Tempered Glass Lens.

CTR2323LSQ Series
Wall Wash Trim with Square Trim Plate
OD: 3-1/2" Sq.; ID 2-5/16"

Angled TIR optic enables precise light control. Cannot be used with lenses or louvers. Suitable for wet locations.

2-3/8" Dia. Lenses/Louver

FA-16 60MM - Honeycomb Louver
LF16- 60MM** - 2-3/8" Diameter Lenses

**Color/Pattern Legend

-A (Amber), **-B** (Blue), **-CL** (Clear), **-DPE** (Dichroic Peach), **-G** (Green), **-LB** (Light Blue),
-R (Red), **-RO** (Rose), **-Y** (Yellow), **-73** (Spread Lens), **-LS** (Linear Spread Lens),
-SL (Soft Light), **-SOL** (Solite), **-UV** (Optivex UV Filter)

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R2RMWD | 2" Warm Dimming LED Downlight: New Construction and Remodel Housing

Product Details

Features

- Housing requires minimum 3" clearance around driver kit from insulation material; thermal protection provided in case of improper insulation use
- Die-cast aluminum collar and heat sink, driver compartment and junction box made from 16-gauge steel. Housing has a black painted finish.
- LED Drivers are fully accessible from below the ceiling
- Three spring steel friction springs provide secure support in ceiling thicknesses from 1/2" - 1". NOTE: Certain regions require the use of a housing mounting frame in conjunction with the R2RMWD housing. The NCF1 new construction mounting frame should be specified when required (ordered separately).
- Minimum plenum clearance required to install housing in ceiling is 6"
- Pre-wired junction box with a convenient screwdriver pry-out. (1) 1/2" Pryout. A duplex electrical connector is provided to simplify daisy-chain wiring. Output over voltage, over-current and short circuit protection.
- Many trim options available to complement any design style. See ordering information for details. Note: R2A series and R2RM series trims are not compatible with each other.

Performance Summary

- CCT Range from 3000K to 1800K, delivering up to 1000 lumens (3000K at 100%, 1800K at ≤5%)
- Light engine consists of a high output multi-chip LED array arranged into a single LED package, enabling precise optical control without requiring lensing to diffuse multiple LED sources
- Precision TIR Optics produce smooth spot, medium, flood and wide flood beam distributions. Optics are interchangeable and can be field replaced.
- The Wall Wash housing/trim combination utilizes a unique angled TIR optic mounted to the trim to create a smooth, uniform beam distribution. **Wall Wash housing is dedicated for use only with Wall Wash trim**; there is no interchangeability with other housings or optics.
- Excellent fixture to fixture color consistency within a 2-step MacAdam Ellipse tolerance
- Driver with Class 2 output, RoHS Compliant
- All R2RM adjustable downlights are available for non-dimming and dimming applications. For a list of compatible dimmers, refer to the Dimming Specifications sheet.
- cCSAus Certified using U.S. (UL) and Canadian (CSA) Standards
- The standard Wall Wash (WW) option is suitable for damp locations; all other options are suitable for wet locations
- Conforms to Washington State Energy Code for low air infiltration; tested in accordance with ASTM E283
- CP Housings are Chicago Plenum CCEA listed
- Suitable for damp locations
- Assembled in the USA

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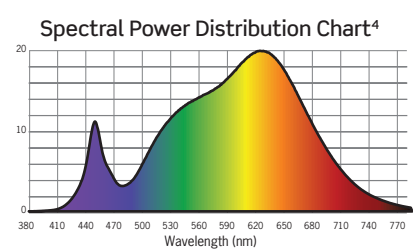
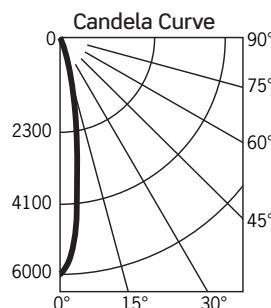
R2RMWD | 2" Warm Dimming LED Downlight: New Construction and Remodel Housing

Photometrics

R2RMWD1MVDS/CST2322L-CLR

Fixture Delivered Lumens: 725.9
Total Watts@120V: 13.5
Lumens Per Watt: 53.8
Center Beam Candle Power: 5929
Beam Distribution: 17°
Spacing Criterion: 0.31
Color Rendering Index (CRI)¹: 91
Color Temperature (CCT)²: 2985K
Designed for 50,000 Hour Lamp Life³
LM-63 Test No. G20081011
LM-79 Test No. S20081102

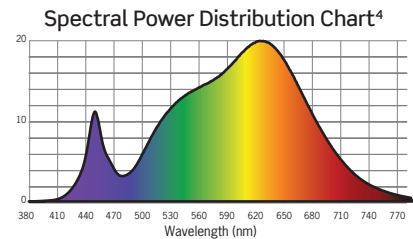
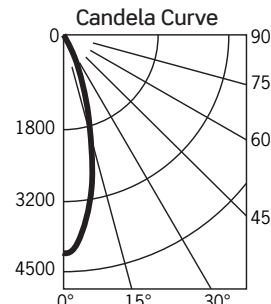
Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	164.7	1.8
8'	92.6	2.4
10'	59.3	3.1
12'	41.2	3.7
14'	30.3	4.3
16'	23.2	4.9



R2RMWD1MVDM/CST2322L-CLR

Fixture Delivered Lumens: 1026
Total Watts@120V: 13.5
Lumens Per Watt: 76
Center Beam Candle Power: 4140
Beam Distribution: 28°
Spacing Criterion: 0.46
Color Rendering Index (CRI)¹: 91
Color Temperature (CCT)²: 2985K
Designed for 50,000 Hour Lamp Life³
LM-63 Test No. G20081006
LM-79 Test No. S20081102

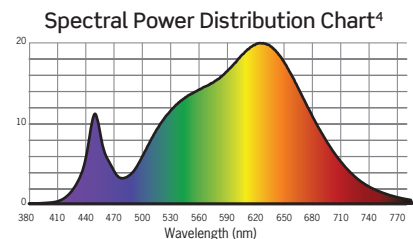
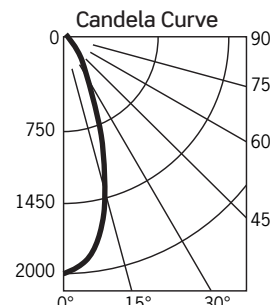
Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	115.0	3.0
8'	64.7	4.0
10'	41.4	5.0
12'	28.8	6.0
14'	21.1	7.0
16'	16.2	8.0



R2RMWD1MVDF/CST2322L-CLR

Fixture Delivered Lumens: 939.7
Total Watts@120V: 13.5
Lumens Per Watt: 69.6
Center Beam Candle Power: 1990
Beam Distribution: 38°
Spacing Criterion: 0.62
Color Rendering Index (CRI)¹: 91
Color Temperature (CCT)²: 2985K
Designed for 50,000 Hour Lamp Life³
LM-63 Test No. G20081002
LM-79 Test No. S20081102

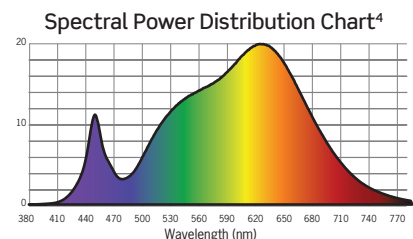
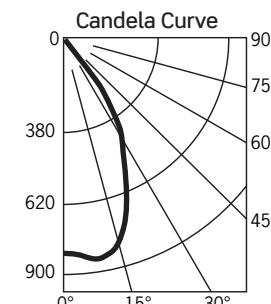
Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	55.3	4.2
8'	31.1	5.6
10'	19.9	6.9
12'	13.8	8.3
14'	10.2	9.7
16'	7.8	11.1



R2RMWD1MVDWF/CST2322L-CLR

Fixture Delivered Lumens: 787
Total Watts@120V: 13.5
Lumens Per Watt: 58.3
Center Beam Candle Power: 816
Beam Distribution: 63°
Spacing Criterion: 0.94
Color Rendering Index (CRI)¹: 91
Color Temperature (CCT)²: 2985K
Designed for 50,000 Hour Lamp Life³
LM-63 Test No. G20081016
LM-79 Test No. S20081102

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	22.7	7.3
8'	12.7	9.7
10'	8.2	12.1
12'	5.7	14.5
14'	4.2	16.9
16'	3.2	19.3



1. Accuracy of rendering colors 2. Color appearance of light source 3. Dependent on surrounding temperatures 4. Colors present within the light source