

2" LED Recessed Downlight: New Construction and Remodel Housing

Type			
1006			

Project ____

Specifications/Features

Housing/Mounting

Specification grade 2" downlight for remodel and new construction applications. Three wattage/lumen packages available:

8W/800Lm: **Insulated ceiling (IC)**, Stopaire housing. Thermally protected for use in applications with direct contact with insulation materials.

10W/1100Lm: **Insulated ceiling (IC)**, Stopaire housing. Thermally protected for use in applications with direct contact with insulation materials.

14W/1400Lm: **Non-insulated ceiling (Non-IC)**, Stopaire housing. Requires minimum 3" clearance around housing from insulation material. Thermal protection provided in case of improper insulation use.

Housing employs a die-cast aluminum collar and heat sink with the 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 R2RM housing. The NCF1 new construction mounting frame (refer below) should be specified when required (ordered separately).

Electrical

Driver with Class 2 output. RoHS compliant.

Output over voltage, over-current and short circuit protection. 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.

Lamp

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 12°, 27°, and 40° 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 with a 2-step MacAdam Ellipse

System designed and rated for 50,000 hours at 70% lumen maintenance

Dimming

All R2RM downlights are available for non-dimming and dimming applications. For a list of compatible dimmers and dimming ranges, refer to the <u>LED Dimming Catalog</u>.

Trims

Specification Grade trims are available in different styles and finishes. Featuring a high quality Alzak™ finish; optically designed for reduced glare while maintaining maximum lumen output.

Warranty

This complete fixture is covered by ConTech's full five (5) year replacement guarantee after date of purchase.

Labels/Usage

cCSAus Certified using US (UL) and Canadian (CSA) standards. Suitable for damp locations.

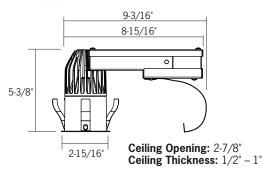
Conforms to Washington State Energy Code (WSEC) for low air infiltration. Tested in accordance with ASTM E283 (2.0 CFM or less).

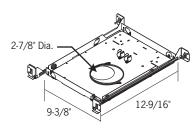
The CP housing is Chicago Plenum CCEA listed.

Assembled in the USA.



Catalog No. -





Optional Mounting Frame:

	Series-05	Series-1	Series-2
Input Wattage	8	10	14
Input Current (A) 120/277	.07/.03	.08/.04	.12/.05
Input Voltage	120-277V AC, 50-60Hz		60Hz
Color Temp	2700K/3000K/3500K/4000K		K/4000K
CRI standard/high	83 (80min) / 90+		O+
Driver			
Power Factor	ower Factor > 0.90		
THD		< 20%	



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Ordering Information

Example Order:	R2RMI27KMVDS-CP				
Housing	LED Series	Color Temp	Electrical/Dimming	Beam Dist.	
R2RM¹	05 - 8W, 800lm, IC, Stopaire Remodel 1 - 10W, 1100lm, IC, Stopaire Remodel 2 - 14W, 1400lm, Non-IC, Stopaire Remodel	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 27KC - 2700K, 90+ CR 30KC - 3000K, 90+ CR 35KC - 3500K, 90+ CR 40KC - 4000K, 90+ CR	 	S - 12° M - 27° F - 40° WW - Wall Wash	CP - Chicago Plenum

Accessories

Catalog No._

2. 120V TRIAC and ELV dimming only.

Trim

See page 3 for trim information and details.

710003301103

2INOPTIC-S-RA2 - 12° Beam Optic **2INOPTIC-M** - 27° Beam Optic **2INOPTIC-F** - 40° Beam Optic

NCF1

 New Construction Mounting Frame
Commercial Mounting Brackets (When Used with NCF1) RL-KIT

HB-24 - 27" Flat Hanger Bars for RL-KIT

- 25" C-Channel Hanger Bars for RL-KIT in Grid Ceiling Construction HBC-24

HB-30 - T-Bar Hanger Set (When Used with NCF1)

^{1.} Series-2 is not available for use in insulated ceilings (IC).



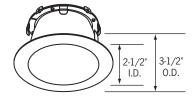
2" LED Recessed Downlight: New Construction and Remodel Housing

Туре		
1,700		

Catalog No._

Project _____

Trims and Accessories



2-5/16° 3-1/2° 0.D.

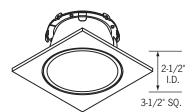
Specification Grade Reflector Trim



Reflector is available in anodized clear specular, anodized platinum, anodized platinum wheat, painted matte white, and painted matte black finishes. Trims are wet location certified when used with an LF16 60MM lens. Trim accepts one (1) FA-16 60MM 2-3/8" Dia. Black Honeycomb Louver or (1) LF16 60MM 2-3/8" Dia. Tempered Glass Lens.

CST2322L-(BLK, CLR*, PL*, PLWHE*, WHT)

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



Specification Grade Reflector with Square Trim Plate

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		- 1
1		- 1
1		
1		
		_

Reflector available in anodized clear specular, anodized platinum, painted matte white, and painted matte black. Trim Plate is available in painted matte white and painted matte black. Wet location certified when used with an LF16 60MM lens. Accepts one (1) FA-16 60MM 2-3/8" Dia. Black Honeycomb Louver or (1) LF16 60MM 2-3/8" Dia. Tempered Glass Lens.

CST2322LSQ-CLR-B

Clear Specular Reflector, Black Trim Plate CST2322LSQ-CLR-P

Clear Specular Reflector, White Trim Plate CST2322LSQ-PL-B

Platinum Reflector, Black Trim Plate

CST2322LSQ-PL-P Platinum Reflector, White Trim Plate

CST2322LSQ-WHT-P White Reflector, White Trim Plate

CST2322LSQ-BLK-B

Black Reflector, Black Trim Plate

CST2322LSQ-BLK-P

Black Reflector, White Trim Plate

Wall Wash Trim

An angled TIR optic enables precise light control. Reflector is available in anodized clear specular, anodized platinum, painted matte white, and painted matte black finishes. Cannot be used with lenses or louvers.

CTR2323L- (BLK, CLR*, PL*, WHT)

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

2-5/16' l.D. 3-1/2" SQ.

Wall Wash Trim with Square Trim Plate

An angled TIR optic enables precise light control. Reflector is available in anodized clear specular, anodized platinum, painted matte white, and painted matte black finishes. Trim Plate is available in painted matte white and painted matte black finishes. Cannot be used with lenses or louvers.

CTR2323LSQ-CLR-B

Clear Reflector, Black Trim Plate

CTR2323LSQ-CLR-P

Clear Reflector, White Trim Plate

CTR2323LSQ-PL-B

Platinum Reflector, Black Trim Plate

CTR2323LSQ-PL-P

Platinum Reflector, White Trim Plate

CTR2323LSQ-WHT-P

White Reflector, White Trim Plate

CST2323LSQ-BLK-B

Black Reflector, Black Trim Plate

CTR2323LSQ-BLK-P

Black Reflector, White Trim Plate

2-3/8" Dia. Lenses/Louver

FA-16 60MM - Honeycomb Louver

LF16-A 60MM - Amber LF16-B 60MM - Blue LF16-B 60MM - Light Blue LF16-R 60MM - Red

LF16-R 60MM - Rose LF16-Y 60MM - Yellow

LF16-73 60MM - Prismatic Spread

LF16-CL 60MM - Clear

LF16-LS 60MM - Linear Spread **LF16-SL 60MM** - Soft Light Sandblasted

LF16-SOL 60MM - Solite

LF16-UV 60MM - Optivex UV Filter



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Designed for 50,000 Hour Lamp Life*; LM-63 Test No. G17030603

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. G17030612

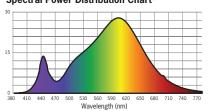
Designed for 50,000 Hour Lamp Life*; LM-63 Test No. G17030704

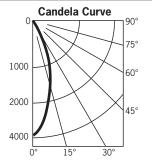
Photometrics

R2RM230KMVDF/CST2322L-CLR

Light Output (Fixture Delivered Lumens): 1443 Total Watts@120V: 13.9W Lumens Per Watt: 103.8

Color Rendering Index (CRI)¹: 84 Color Temperature (CCT)²: 2941K Spectral Power Distribution Chart³





Candlepower Summary				
FROM 0	CANDELA	LUMENS		
0	3974			
5	3556	363		
15	2360	669		
25	927	429		
35	67	42		
45	9	7		
55	1	1		
65	0	0		
75	0	0		
85	0	0		
95	0			

Inte	ensity Distribut	tion
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4'	248.4	2.6
6'	/110.4	3.9
8'	62.1	5.2
10'	39.7	6.5
12'	27.6	7.8
14' /	20.3	9.1

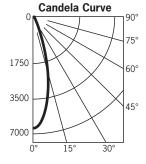
Beam Distribution: 36° **Spacing Criteria:** 0.60

R2RM230KMVDM/CST2322L-CLR

Light Output (Fixture Delivered Lumens): 1442 **Total Watts@120V:** 13.9W

Lumens Per Watt: 103.7 Color Rendering Index (CRI)¹: 84 Color Temperature (CCT)²: 2934K





Candlepower Summary				
FROM 0	CANDELA	LUMENS		
0	6569			
5	5929	605		
15	2769	785		
25	267	123		
35	25	16		
45	8	6		
55	1	1		
65	0	0		
75	0	0		
85	0	0		
95	0			

intensity Distribution				
DISTANCE (FT.)				
4'	410.6	1.9		
6'	182.5	2.9		
8'	102.6	3.9		
10'	65.7	4.8		
12'	45.6	5.8		
14' /	33.5	6.8		

Intensity Distribution

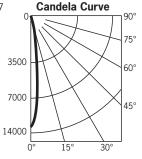
Beam Distribution: 27° Spacing Criteria: 0.44

R2RM230KMVDS/CST2322L-CLR

Light Output (Fixture Delivered Lumens): 1199.7 Total Watts@120V: 13.9W

Lumens Per Watt: 86.3 Color Rendering Index (CRI): 84 Color Temperature (CCT)²: 2939K





Candlepower Summary				
FROM 0	CANDELA	LUMENS		
0	13157			
5	9344	971		
15	1540	437		
25	85	39		
35	21	13		
45	21	16		
55	2	2		
65	1	1		
75	0	0		
85	0	0		
95	0			

Intensity Distribution					
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)			
4'	822.3	1.0			
6'	365.5	1.5			
8'	205.6	2.0			
10'	131.6	2.5			
12'	91.4	3.0			
14'	67.1	3.4			

Beam Distribution: 14° Spacing Criteria: 0.27

Multiplication Factors

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ССТ	STANDARD CRI	HIGH CRI	SERIES 05, 8W	SERIES 1, 10W	WHT/PL/PLWHE REFL	BLK REFL
2700K	0.94	0.70	0.61	0.74	1.0	0.94
3000K	N/A	0.75	0.61	0.74	1.0	0.94
3500K	1.0	0.81	0.61	0.74	1.0	0.94
4000K	1.0	0.87	0.61	0.74	1.0	0.94

^{*}Dependent on surrounding temperatures

^{1.} Accuracy of rendering colors

^{2.} Color appearance of light source3. Colors present within the light source