



## 2" ROUND DEEP DOWNLIGHT 2000 LUMENS MAX

### UNIVERSAL HOUSINGS WITH INTERCHANGEABLE TRIMS

Spectrum's A Spec 2" recessed round downlight series features a 2" regressed trim and variety of options for accent and general illumination.

LUMENS AND WATTAGE CHART					
PART NUMBER	LUMENS	SOURCE LUMENS <sup>1</sup>	DELIVERED LUMENS <sup>2</sup>	SYSTEM WATTS	LPW
RDD2F	XT10L	1000	691	11.1	62
RDD2F	XT13L	1300	930	15.0	62
RDD2F	XT20L	2000	1431	23.7	60

PROJECT: \_\_\_\_\_  
 QUANTITY: \_\_\_\_\_ TYPE: \_\_\_\_\_



### AVAILABLE HOUSING TYPES

SR2DMO - New Construction / 20L Max



SR2DMI - IC New Construction / 13L Max



SR2DMR - Remodel Construction / 20L Max



### FIXTURE HOUSING SPECIFICATION

SERIES	LUMENS <sup>1</sup>	DRIVER / DIMMING / VOLTAGE	OPTIONS
SR2DMO	New Construction	E <sub>-</sub> Electronic Driver DS10 <sub>-</sub> 10%, 0-10V DS2W1 ELV/MLV, 120V	H12 <sup>2</sup> 12" - 24" Expandable Bars EB Black Housing EMRM Remote Emergency Battery Pack
SR2DMI <sup>3</sup>	IC New Construction		
SR2DMR	Remodel Construction		
	XN BEAM		
	XN10L 1000 Lm		
	XN13L <sup>4</sup> 1300 Lm		

- Die-cast aluminum trim with a wide variety of options.
- Deep regressed trim.
- Universal housing accepts all trim types.
- Performance Xicato LED module for superior reliability and color consistency.
- Interchangeable optics and lenses.
- 5 year warranty on fixture and electronics.
- 10 year warranty on LED CCT.
- Sustainable fixture.
- Zhaga International Standard LED Module for future upgrades.
- 83CRI 2SDCM, 98CRI 1x2SDCM best in industry.

### AVAILABLE TRIM / MODULE TYPES



### TRIM / MODULE SPECIFICATION

TRIM	CCT	OPTICS	TRIM FINISH <sup>7</sup>	OPTIONS
RDD2F	Downlight	83 CRI	MW <sup>8</sup> Matte White MB Matte Black PT Platinum Silver BZ Bronze CH Charcoal OB Oil Rubbed Bronze AS Sapphire AM Malachite SN Sun Gold CO Copper Metallic GH Graphite CC <sup>9</sup> Custom Color	NL No Lens
		27K 2700K		GL <sup>10</sup> Clear Glass Lens
		30K 3000K		SO Micro Prism Solite™ Lens
		35K 3500K		FG Frosted Glass Lens
		40K 4000K		WF <sup>11</sup> White Flange
	98 CRI ARTIST			
	27HK 2700K			
	30HK 3000K			
	35HK 3500K			
	40HK 4000K			

EXAMPLE: SR2DMOXT10LDS2W1/H12/RDD2F27KMDCHNL

### NOTES:

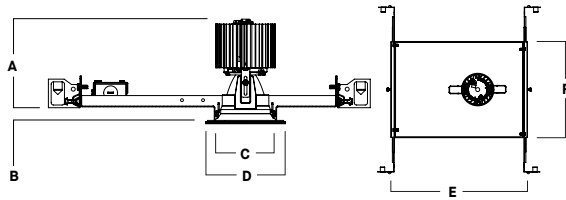
1 Nominal Source Lumens at Any CCT 2 Nominal Delivered Lumens 83 CRI at Any CCT with MD-MW-GL Trim 3 IC New Construction not Available in XN Beam or XT20L  
 4 Not Available with HK 5 Standard Bar Hanger 6 9mm, 13L Max, All XN Draw More Watts Than Other Optics; See Photometry 7 Inside Trim And Flange Will Match Color Specified 8 Standard Finish 9 Contact Factory for Special Finishes 10 Standard Lens 11 Otherwise Flange Is Same Color As Interior Of Trim



## HOUSING DIMENSIONS

### SR2DMO - NEW CONSTRUCTION / 20L MAX

Non-IC rated, thermally protected frame-in kit for new construction. Non-IC designation requires insulation must be minimum of 3" from housing.



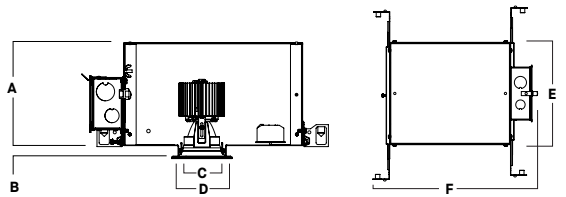
A	B	C	D	E	F
4.0	.625	1.8	3.7	12.9	9.1
101.6 mm	15.2 mm	45.7 mm	93.98 mm	327.7 mm	231.1 mm

Fixture Weight: 4.0 lbs

Ceiling Cutout: Ø 3"

### SR2DMI - IC NEW CONSTRUCTION / 13L MAX

IC rated frame-in kit for new construction with direct insulation contact and CCEA (Chicago Plenum) compatibility.



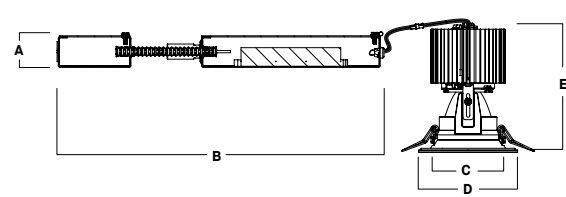
A	B	C	D	E	F
6.4	.625	1.8	3.7	9.8	15.4
162.6 mm	15.2 mm	45.7 mm	93.98 mm	248.9 mm	391.2 mm

Fixture Weight: 5.0 lbs

Ceiling Cutout: Ø 3"

### SR2DMR - REMODEL CONSTRUCTION / 20L MAX

Non-IC rated frame-in kit for existing construction. Non-IC designation requires insulation must be minimum of 3" from housing.



A	B	C	D	E
1.5	13.9	1.8	3.7	4.6
38.1 mm	353.1 mm	45.7 mm	93.98 mm	116.8 mm

Fixture Weight: 2.0 lbs

Ceiling Cutout: Ø 3"

## FEATURES

### NEW CONSTRUCTION

Precision Die-formed 20 gauge galvanized steel housing and integral junction box with (1) 7/8" knockout for Non-IC (not designed for through branch circuit wiring) and (1) 5/8", (3) 7/8" and 2 (1") knockouts for IC. Junction box capacity: 8 12AWG rated for 90 °C. Tool-less driver and junction box access for ease of maintenance. Posi-loc trim retention springs for 5/8"-1" ceiling thickness. For thicker ceilings consult factory.

### REMODEL CONSTRUCTION

Features tethered power supply and junction box with sheathed wire, (1) 7/8" knockout, and (1) 5/8" Knockout.

### MOUNTING

A variety of mounting bars are available (excluding remodel). Ceiling materials must be rigid to support luminaire frame.

### DRIVER

Several constant current dimming drivers are available. Power factor >.9 typical, 50/60Hz, 350-1050mA.

### TRIM

Self-flanged, one-piece, die-cast aluminum finished in a variety of powdercoat options. Inside trim and flange are finished in same color unless otherwise specified (WF= White Flange).

### LUMEN OUTPUT

Optics maintain 1000-2000 lumens range.

### LED

Zhaga compatible high performance Xicato module. Proprietary phosphor technology provides consistent and stable color with CCT control of +/- 100K over life of light engine.

### EMERGENCY

Remote 7W emergency battery options are available. Operates for 90 minutes and produces nominal 450 lumens.

### FUSING

Integral optional fast blow fuse with fuse holder.

### COLOR VARIATION

Standard CRI (83) within 2-step MacAdam Ellipse. High CRI (98) within 1x2-step MacAdam Ellipse.

### LISTINGS

ETL Certified to meet US and Canadian Standards.

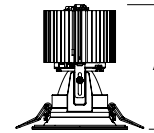
Manufactured and tested to UL standard No. 1598/8750. BAA compliant. City of Chicago Environmental Air (CCEA), and Insulated Ceiling (IC) options available.

### WARRANTY

Fixtures, LEDs and drivers carry 5 year Spectrum warranty, as well as individual OEM warranty. Warranty is 5 years from date of manufacturing. LED system rated for operation in an ambient temperatures up to 25 °C.

## TRIM / MODULE DATA

### RDD2F - DOWNLIGHT MODULE



Lm	A
XT10L	3.6
XT13L	3.6
XT20L	4.6



# PHOTOMETRIC DATA - 2" ROUND DEEP

SR2DMO-XT20L-E1-RDD2F-xxK-MD-MW-NL

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT																																									
	0.00°	0° - 10°	384	25%	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 3</th> <th colspan="2">RCR 5</th> </tr> <tr> <th>FC +</th> <th>W/Sq. Ft.</th> <th>FC +</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>8'</td> <td>3' *</td> <td>181</td> <td>2.79</td> <td>256</td> <td>4.35</td> </tr> <tr> <td>12'</td> <td>5' **</td> <td>61</td> <td>0.95</td> <td>56</td> <td>0.95</td> </tr> <tr> <td>16'</td> <td>7' ***</td> <td>38</td> <td>0.58</td> <td>24</td> <td>0.40</td> </tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">65 FC per W/Sq. Ft.</td> <td colspan="2">59 FC per W/Sq. Ft.</td> </tr> <tr> <td colspan="6">                     2' Suspension Length                      Square rooms used for multiple units:                      - RCR 3: Length &amp; Width = Ceiling Ht. - 4.5' x 3.33                      - RCR 5: Length &amp; Width = Ceiling Ht. - 4.5' x 2.00                      * Average Footcandles at 2.5' Above Floor                      * Exceeds spacing criteria by 56%                      ** Exceeds spacing criteria by 21%                      *** Exceeds spacing criteria by 11%                 </td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 3		RCR 5		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	8'	3' *	181	2.79	256	4.35	12'	5' **	61	0.95	56	0.95	16'	7' ***	38	0.58	24	0.40	Delivered Illuminance Rating: (DIR)		65 FC per W/Sq. Ft.		59 FC per W/Sq. Ft.		2' Suspension Length Square rooms used for multiple units: - RCR 3: Length & Width = Ceiling Ht. - 4.5' x 3.33 - RCR 5: Length & Width = Ceiling Ht. - 4.5' x 2.00 * Average Footcandles at 2.5' Above Floor * Exceeds spacing criteria by 56% ** Exceeds spacing criteria by 21% *** Exceeds spacing criteria by 11%					
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	0.00° 4,462	0° - 20°	1,037	67%		Mounting Height AFF   FC at Center on Floor   Beam Diameter   FC at Beam Edge 5.50'   148 fc   3.2'   74 fc 6.50'   106 fc   3.8'   53 fc 7.50'   79 fc   4.4'   40 fc 8.50'   62 fc   5.0'   31 fc 10.00'   45 fc   5.8'   22 fc 12.00'   31 fc   7.0'   15 fc 14.00'   23 fc   8.2'   11 fc 16.00'   17 fc   9.4'   9 fc																																							
	5.00° 4,285	0° - 30°	1,380	89%			Beam Angle: 31.31																																						
	10.00° 3,601	0° - 40°	1,451	93%			Spacing Ratio: 0.55																																						
	15.00° 2,573	0° - 60°	1,522	98%			Lamp Multiplier: 10L x 0.48, 13L x 0.65																																						
	20.00° 1,565	0° - 80°	1,555	100%			CCT Multiplier: LEDXT lumen output is the same for all available CCT's																																						
30.00° 344	0° - 90°	1,558	100%																																										
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Delivered Lumens: 1,558  
Luminaire Watts: 23.7  
LER: 65.74

CP at 0deg (Nadir): 4,462  
CRI: 83

SR2DMO-XT20L-E1-RDD2F-xxK-MD-MW-GL

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT																																									
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	0.00° 4,085	0° - 20°	951	67%		Mounting Height AFF   FC at Center on Floor   Beam Diameter   FC at Beam Edge 5.50'   135 fc   3.1'   67 fc 6.50'   97 fc   3.7'   48 fc 7.50'   73 fc   4.3'   36 fc 8.50'   57 fc   4.9'   28 fc 10.00'   41 fc   5.7'   20 fc 12.00'   28 fc   6.8'   14 fc 14.00'   21 fc   8.0'   10 fc 16.00'   16 fc   9.1'   8 fc																																							
	5.00° 3,872	0° - 30°	1,255	88%			Beam Angle: 31.79																																						
	10.00° 3,200	0° - 40°	1,320	93%			Spacing Ratio: 0.53																																						
	15.00° 2,219	0° - 60°	1,393	98%			Lamp Multiplier: 10L x 0.48, 13L x 0.65																																						
	20.00° 1,293	0° - 80°	1,423	100%			CCT Multiplier: LEDXT lumen output is the same for all available CCT's																																						
30.00° 227	0° - 90°	1,425	100%																																										
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Delivered Lumens: 1,426  
Luminaire Watts: 23.7  
LER: 60.17

CP at 0deg (Nadir): 4,085  
CRI: 83

SR2DMO-XT20L-E1-RDD2F-xxK-MD-MW-SO

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	5.00° 3,597	0° - 30°	1,233	85%			Beam Angle: 32.75																																						
	10.00° 2,970	0° - 40°	1,318	91%			Spacing Ratio: 0.54																																						
	15.00° 2,147	0° - 60°	1,407	97%			Lamp Multiplier: 10L x 0.48, 13L x 0.65																																						
	20.00° 1,361	0° - 80°	1,443	100%			CCT Multiplier: LEDXT lumen output is the same for all available CCT's																																						
30.00° 323	0° - 90°	1,446	100%																																										
40.00° 74	Total	1,446	100%																																										
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Delivered Lumens: 1,446  
Luminaire Watts: 23.7  
LER: 61.01

CP at 0deg (Nadir): 3,828  
CRI: 83



# PHOTOMETRIC DATA - 2" ROUND DEEP

SR2DMO-XT20L-E1-RDD2F-xxK-WD-MW-NL

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT																																									
	0.00°	0° - 10°	249	16%	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 3</th> <th colspan="2">RCR 5</th> </tr> <tr> <th>FC +</th> <th>W/Sq. Ft.</th> <th>FC +</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>8'</td> <td>4' *</td> <td>98</td> <td>1.57</td> <td>107</td> <td>1.93</td> </tr> <tr> <td>12'</td> <td>6' **</td> <td>38</td> <td>0.61</td> <td>52</td> <td>0.95</td> </tr> <tr> <td>16'</td> <td>8' ***</td> <td>25</td> <td>0.40</td> <td>22</td> <td>0.40</td> </tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">62 FC per W/Sq. Ft.</td> <td colspan="2">55 FC per W/Sq. Ft.</td> </tr> <tr> <td colspan="6">                     2' Suspension Length                      Square rooms used for multiple units:                      - RCR 3: Length &amp; Width = Ceiling Ht. - 4.5' x 3.33                      - RCR 5: Length &amp; Width = Ceiling Ht. - 4.5' x 2.00                      * Average Footcandles at 2.5' Above Floor                      * Exceeds spacing criteria by 84%                      ** Exceeds spacing criteria by 29%                      *** Exceeds spacing criteria by 12%                 </td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 3		RCR 5		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	8'	4' *	98	1.57	107	1.93	12'	6' **	38	0.61	52	0.95	16'	8' ***	25	0.40	22	0.40	Delivered Illuminance Rating: (DIR)		62 FC per W/Sq. Ft.		55 FC per W/Sq. Ft.		2' Suspension Length Square rooms used for multiple units: - RCR 3: Length & Width = Ceiling Ht. - 4.5' x 3.33 - RCR 5: Length & Width = Ceiling Ht. - 4.5' x 2.00 * Average Footcandles at 2.5' Above Floor * Exceeds spacing criteria by 84% ** Exceeds spacing criteria by 29% *** Exceeds spacing criteria by 12%					
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	5.00°	0° - 20°	762	49%																																									
	10.00°	0° - 30°	1,204	78%																																									
	15.00°	0° - 40°	1,395	90%																																									
20.00°	0° - 60°	1,499	97%																																										
30.00°	0° - 80°	1,548	100%																																										
40.00°	0° - 90°	1,552	100%																																										
50.00°	Total	1,552	100%																																										
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Delivered Lumens: 1,552 Luminaire Watts: 23.7 LER: 65.49	CP at 0deg (Nadir): 2,889 CRI: 83	Beam Angle: 39.39 Spacing Ratio: 0.62	Lamp Multiplier: 10L x 0.48, 13L x 0.65 CCT Multiplier: LEDXT lumen output is the same for all available CCT's																																										

SR2DMO-XT20L-E1-RDD2F-xxK-WD-MW-GL

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT																																									
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20.00°	0° - 60°	1,358	96%																																										
30.00°	0° - 80°	1,404	100%																																										
40.00°	0° - 90°	1,408	100%																																										
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Delivered Lumens: 1,408 Luminaire Watts: 23.7 LER: 59.41	CP at 0deg (Nadir): 2,606 CRI: 83	Beam Angle: 39.33 Spacing Ratio: 0.62	Lamp Multiplier: 10L x 0.48, 13L x 0.65 CCT Multiplier: LEDXT lumen output is the same for all available CCT's																																										

SR2DMO-XT20L-E1-RDD2F-xxK-WD-MW-SO

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30.00°	0° - 80°	1,425	100%																																										
40.00°	0° - 90°	1,429	100%																																										
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Delivered Lumens: 1,429 Luminaire Watts: 23.7 LER: 60.30	CP at 0deg (Nadir): 2,454 CRI: 83	Beam Angle: 40.69 Spacing Ratio: 0.64	Lamp Multiplier: 10L x 0.48, 13L x 0.65 CCT Multiplier: LEDXT lumen output is the same for all available CCT's																																										

