

A	B	C	D	E	F
10L-20L: 5.6	.625	6.0	7.5	13.2	9.5
30L-50L: 6.6	15.2 mm	152.4 mm	191.0 mm	335.3 mm	241.3 mm

### RDF06XT - TRIM FLANGE / NON-IC RATED

#### APPLICATION

Versatile 6" Round aperture recessed LED downlight with a wide range of lumens and optical controls.

#### FEATURES

Two-stage optical system for smooth light distribution and focus control. Quick change LED module with interchangeable optics for job site adjustment and fixture maintenance. Shallow plenum design. Tool-less driver and j-box access. Posi-lock trim retention torsion springs.

#### TRIM FINISH

A variety of architectural powdercoat and anodized finishes are available. Matte white flange is standard.

#### ELECTRONICS

LED system features Xicato LED module with proprietary phosphor technology that provides consistent, stable color with CCT control of +/- 100K over life of the light engine. Base CRI is 83 with 2-step MacAdam Ellipse binning. High CRI is 98 with 1x2-step MacAdam Ellipse binning. Variety of electronic 120V/277V and dimming drivers.

#### CONSTRUCTION

Housing/frame constructed of #20 ga. galvanized steel to resist corrosion. Self-Flanged one piece trim spun from 0.063" thick high purity aluminum and finished to specification.

#### CODE COMPLIANCE

BAA Compliant. Non-IC rated. ETL certified to meet US and Canadian standards. Suitable for dry or damp locations. Optional Wet location. Manufactured and tested to UL standards No. 1598/8750.

WATTAGE TO LUMENS UPDATE					
CURRENT CAT. NUMBER EXAMPLE	PREVIOUS CAT. NUMBER EXAMPLE	SOURCE LUMENS <sup>1</sup>	DELIVERED LUMENS <sup>2</sup>	SYSTEM WATTS	LPW
RDF06XT10L	RDF06LEDX115W	1000	754	11.1	68
RDF06XT13L	RDF06LEDX120W	1300	1015	15.0	68
RDF06XT20L	RDF06LEDX133W	2000	1562	23.7	66
RDF06XT30L	RDF06LEDX152W	3000	2343	34.6	68
RDF06XT40L	N/A	4000	3007	39.9	75
RDF06XT50L	N/A	5000	3906	54.0	72

SERIES	LUMENS <sup>1</sup>	CCT	OPTICS	DRIVER / DIMMING / VOLTAGE <sup>4</sup>	OPTIONS <sup>7</sup>	TRIM	FINISH	TRIM OPTIONS <sup>13</sup>
RDF06XT	83 CRI		XN <sup>3</sup> 12° ND 27° MD 46° WD 50° XW 52°	E_ Electronic Driver DS10_ 10% 0-10V DO10_ 1% 0-10V DS2W1 1%, ELV/MLV, 120V DL3E_ 1% Lutron® EcoSystem®, Fade EL10_ 1%, eldoLED EDO1_ 0.1%, eldoLED DALI_ DALI Control DMXS_ 6 DMX Standard Configuration DMXC_ 9 DMX Non-Standard Custom AWN Athena Wireless Node (RF Module Only)	1 120V 2 277V	BH27 <sup>8</sup> 27" Solid Bars H12 12" - 24" Expandable Bars H06 6" - 12" Expandable Bars CB24 24" C-Channel Bars EM Integral Emergency Battery FS Fusing EB Black Housing CR Corrosion Resistant PR <sup>9</sup> Deep Ceiling Extension GR Goof Ring AMB Anti Microbial Finish	RD6FXT <sup>10</sup> SG <sup>11</sup> Semi-Diffuse HZ Haze Full Diffuse MW Matte White MB Matte Black PT Platinum Silver OB Oil Rubbed Bronze CH Charcoal AC Anodic Champagne AS Anodic Sapphire AM Anodic Malachite SN Sun Gold CO Copper Metallic GH Graphite AMB Anti Microbial Finish CC <sup>12</sup> Custom Color	SOX <sup>14</sup> Micro Prism Solite™ Lens GLX <sup>15</sup> Clear Glass Lens PGX Prismatic Glass Lens FGX Frosted Glass Lens SOW Micro Prism Solite™ Lens GLW Clear Glass Lens PGW Prismatic Glass Lens FGW Frosted Glass Lens PFB Polished Flange
	10L 1000 Lm	27K 2700K						
	13L 1300 Lm	30K 3000K						
	20L 2000 Lm	35K 3500K						
	30L 3000 Lm	40K 4000K						
	40L 4000 Lm							
	50L 5000 Lm							
	98 CRI							
	10L 1000 Lm	27HK 2700K						
	13L 1300 Lm	30HK 3000K						
	20L 2000 Lm	35HK 3500K						
	30L 3000 Lm	40HK 4000K						

### EXAMPLE: RDF06XT13L35KMDE1/BH27/RD6FXTSGSOX

NOTES:  
 1 Nominal Source Lumens at any CCT 2 Nominal Delivered Lumens 83 CRI at Any CCT with WD-SG-SOX 3 XN 13L Max at 83 and 98 CRI 4 Contact Factory for Additional Options 5 50L Not Available with Lutron Drivers  
 6 Contact Factory 7 See Product Options Page for Details 8 Standard Bar Hangers 9 Contact Factory 10 "F" Indicates Self-Flange Trim, Matte White Standard 11 Standard Finish 12 Contact Factory for Special Finishes  
 13 Contact Factory for Special Lenses/Louvers 14 Standard Lens for MD, WD, XW 15 Standard Lens for XN and ND 16 Flange and Reflector Same Finish

PROJECT: \_\_\_\_\_

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



# 6" ROUND DOWNLIGHT

## NON-IC RATED / PHOTOMETRIC DATA



### NARROW BEAM - RDxx6XT-50LxxKNDE1-RD6xSGGLX

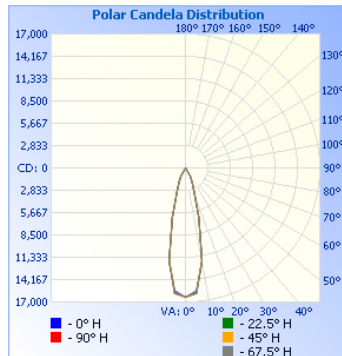
Note: xxK indicates all available CCT's have same lumen output

Filename: **RDxx6XT-50LxxKNDE1-RD6xSGGLX**

Manufacturer: Spectrum Lighting  
 Luminaire: 6" aperture, Narrow Beam  
 Luminaire Cat: RDxx6LEDXT-50LxxK-ND-E1-RD6x-SG-GLX  
 Lamp: N/A, Min. 83 CRI  
 Lamp Cat: N/A  
 Lamp Output: Total luminaire Lumens: 4335.8  
 Max Candela: 16,369.3 at Horizontal: 0°, Vertical: 0°  
 Input Wattage: 54  
 Luminous Opening: Point  
 Test: SP-00476\_7  
 Test Date: Thu Jun 25 2015

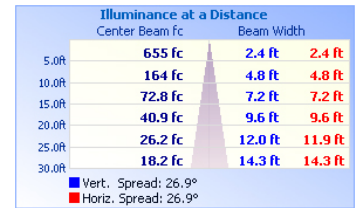
#### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	4,110.8	94.8%
0-40	4,328.3	99.8%
0-60	4,335.1	100%
60-90	0.8	0%
0-90	4,335.8	100%



#### Candela Table

	0	22.5	45	67.5	90
0	16369	16369	16369	16369	16369
5	15626	15918	15806	15832	15960
10	11995	12012	11859	11964	11861
15	6472	6480	6442	6518	6517
20	3158	3162	3154	3150	3135
25	1954	1931	1966	1942	1961
30	1189	1180	1206	1196	1189
35	144	141	145	144	141
40	16	18	18	15	16
45	5	5	4	5	5
50	3	3	3	3	3
55	1	1	1	1	1
60	1	1	1	1	1
65	0	1	0	1	0
70	0	0	0	0	0
75	0	0	0	0	0
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0



Distance	Center Beam fc	Beam Width
5.0R	655 fc	2.4 ft
10.0R	164 fc	4.8 ft
15.0R	72.8 fc	7.2 ft
20.0R	40.9 fc	9.6 ft
25.0R	26.2 fc	12.0 ft
30.0R	18.2 fc	14.3 ft

SPACING RATIO: 0.46

### MEDIUM BEAM - RDxx6XT-50LxxKMDE1-RD6xSGSOX

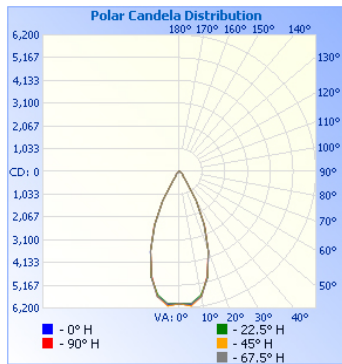
Note: xxK indicates all available CCT's have same lumen output

Filename: **RDxx6XT-50LxxKMDE1-RD6xSGSOX**

Manufacturer: Spectrum Lighting  
 Luminaire: 6" aperture, Medium Beam  
 Luminaire Cat: RDxx6LEDXT-50LxxK-MD-E1-RD6x-SG-SOX  
 Lamp: N/A, Min. 83 CRI  
 Lamp Cat: N/A  
 Lamp Output: Total luminaire Lumens: 3775.6  
 Max Candela: 6,129.2 at Horizontal: 45°, Vertical: 5°  
 Input Wattage: 54  
 Luminous Opening: Point  
 Test: SP-00476\_4  
 Test Date: Fri Jun 19 2015

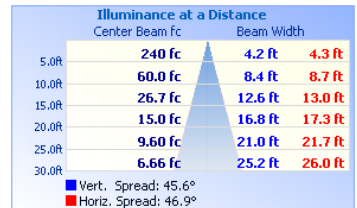
#### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	3,107.3	82.3%
0-40	3,525.8	93.4%
0-60	3,772.0	99.9%
60-90	3.5	0.1%
0-90	3,775.6	100%



#### Candela Table

	0	22.5	45	67.5	90
0	5997	5997	5997	5997	5997
5	6055	6020	6129	6029	6118
10	5735	5674	5740	5778	5757
15	4955	4958	4937	4930	4894
20	3848	3829	3837	3846	3828
25	2650	2671	2655	2637	2709
30	1519	1512	1519	1508	1514
35	513	515	522	518	524
40	235	233	237	235	228
45	213	206	208	205	211
50	177	177	176	177	176
55	105	109	104	101	110
60	10	8	8	8	8
65	1	1	1	1	1
70	1	1	1	1	1
75	0	1	0	1	1
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0



Distance	Center Beam fc	Beam Width
5.0R	240 fc	4.2 ft
10.0R	60.0 fc	8.4 ft
15.0R	26.7 fc	12.6 ft
20.0R	15.0 fc	16.8 ft
25.0R	9.60 fc	21.0 ft
30.0R	6.66 fc	25.2 ft

SPACING RATIO: 0.76

### WIDE BEAM - RDxx6XT-50LxxKWDE1-RD6xSGSOX

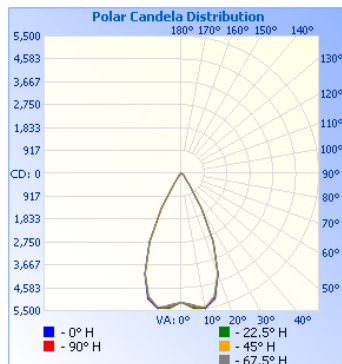
Note: xxK indicates all available CCT's have same lumen output

Filename: **RDxx6XT-50LxxKWDE1-RD6xSGSOX**

Manufacturer: Spectrum Lighting  
 Luminaire: 6" aperture, Wide Beam  
 Luminaire Cat: RDxx6LEDXT-50LxxK-WD-E1-RD6x-SG-SOX  
 Lamp: N/A, Min. 83 CRI  
 Lamp Cat: N/A  
 Lamp Output: Total luminaire Lumens: 3878.4  
 Max Candela: 5,492.1 at Horizontal: 0°, Vertical: 10°  
 Input Wattage: 54  
 Luminous Opening: Point  
 Test: SP-00476\_3  
 Test Date: Fri Jun 19 2015

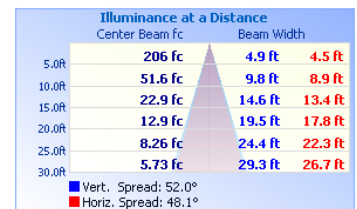
#### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	3,236.9	83.5%
0-40	3,670.6	94.6%
0-60	3,874.8	99.9%
60-90	3.6	0.1%
0-90	3,878.4	100%



#### Candela Table

	0	22.5	45	67.5	90
0	5161	5161	5161	5161	5161
5	5281	5426	5303	5330	5369
10	5492	5453	5427	5456	5490
15	5205	5081	5096	5117	5147
20	4276	4255	4244	4267	4284
25	3032	2997	2971	3013	3013
30	1619	1608	1607	1590	1580
35	527	535	527	527	532
40	238	227	232	230	229
45	170	168	163	171	171
50	138	138	137	135	134
55	82	87	85	85	86
60	9	8	8	8	8
65	2	1	1	1	1
70	1	1	1	1	1
75	1	1	0	1	1
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0



Distance	Center Beam fc	Beam Width
5.0R	206 fc	4.9 ft
10.0R	51.6 fc	9.8 ft
15.0R	22.9 fc	14.6 ft
20.0R	12.9 fc	19.5 ft
25.0R	8.26 fc	24.4 ft
30.0R	5.73 fc	29.3 ft

SPACING RATIO: 0.88

# 6" ROUND DOWNLIGHT

## NON-IC RATED / PHOTOMETRIC DATA



### XTRA WIDE BEAM - RDxx6XT-50LxxKXWE1-RD6xSGSOX

Note: xxK indicates all available CCT's have same lumen output

**Filename:** RDxx6XT-50LxxKXWE1-RD6xSGSOX

**Manufacturer:** Spectrum Lighting

**Luminaire:** 6" aperture, Xtra Wide Beam

**Luminaire Cat:** RDxx6LEDXT-50L-xxK-XW-E1-RD6x-SG-SOX

**Lamp:** N/A, Min. 83 CRI

**Lamp Cat:** N/A

**Lamp Output:** Total luminaire Lumens: 3951.9

**Max Candela:** 5,506.3 at Horizontal: 0°, Vertical: 5°

**Input Wattage:** 54

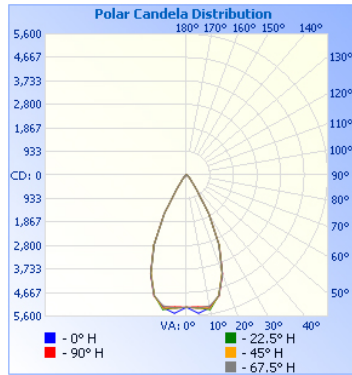
**Luminous Opening:** Point

**Test:** SP-00476\_2

**Test Date:** Fri Jun 19 2015

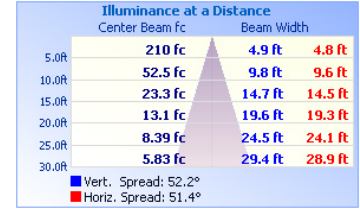
#### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	3,211.4	81.3%
0-40	3,728.0	94.3%
0-60	3,948.4	99.9%
60-90	3.5	0.1%
0-90	3,951.9	100%



#### Candela Table

	0	22.5	45	67.5	90
0	5247	5247	5247	5247	5247
5	5506	5287	5304	5299	5247
10	5336	5421	5365	5270	5314
15	4948	4935	4942	4955	4973
20	4149	4135	4113	4154	4169
25	3031	3062	3048	3025	3075
30	1771	1755	1772	1772	1784
35	681	676	668	681	681
40	300	307	310	305	301
45	205	202	196	199	204
50	127	125	121	120	124
55	74	76	80	76	72
60	7	8	8	7	7
65	1	2	1	1	1
70	1	1	1	1	1
75	1	1	0	0	1
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0



#### Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	92.1%	3,638.6	72.8	73.4
Beam (50%):	68%	2,687.4	51.4	52.2
Total:	100.2%	3,959.6		

SPACING RATIO: 0.88