

# 4" ROUND DOWNLIGHT

## XT SERIES / 4000 LUMENS MAX

### RDFO4XT - TRIM FLANGE / NON-IC RATED

#### APPLICATION

Versatile 4" 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. See RDZO4 series for trimless plaster or wood ceiling.

#### TRIM FINISH

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

#### ELECTRONICS

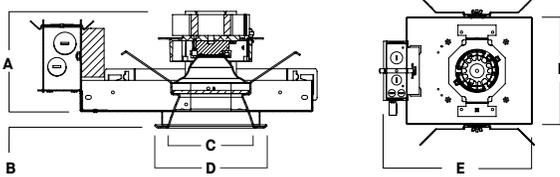
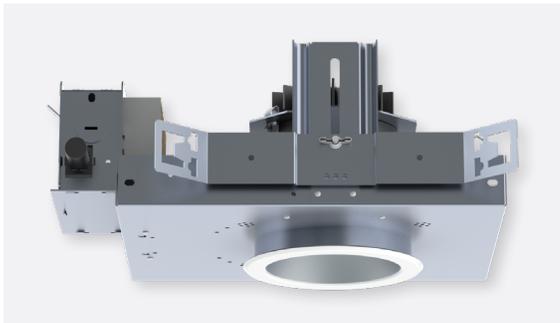
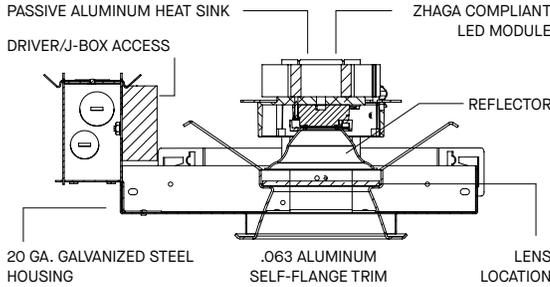
LED system features Xicato LED module with proprietary phosphor technology that provides consistent, stable color with CCT control of +/- 100K over life of the light engine. Base CRI is 83 with 2-step MacAdam Ellipse binning. High CRI is 98 with 1x2-step MacAdam Ellipse binning. Variety of electronic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



A	B	C	D	E	F
10L-20L: 4.9	.625	4.0	5.75	13.2	9.5
30L-40L: 5.7	15.2 mm	101.6 mm	146.0 mm	335.3 mm	241.3 mm

WATTAGE TO LUMENS UPDATE					
CURRENT PART NUMBER EXAMPLE	PREVIOUS PART NUMBER EXAMPLE	SOURCE LUMENS <sup>1</sup>	DELIVERED LUMENS <sup>2</sup>	SYSTEM WATTS	LPW
RDFO4XT10L	RDFO4LEDX115W	1000	682	11.1	61
RDFO4XT13L	RDFO4LEDX120W	1300	919	15.0	61
RDFO4XT20L	RDFO4LEDX133W	2000	1414	23.7	60
RDFO4XT30L	RDFO4LEDX152W	3000	2121	34.6	61
RDFO4XT40L	N/A	4000	2722	39.9	68

SERIES	LUMENS <sup>1</sup>	CCT	OPTICS	DRIVER / DIMMING / VOLTAGE <sup>4</sup>	OPTIONS <sup>6</sup>	TRIM	FINISH	TRIM OPTIONS <sup>12</sup>	
RDFO4XT	83 CRI		XN <sup>3</sup> 12°	E_ Electronic Driver	1 120V	BH27 <sup>7</sup> 27" Solid Bars	RD4FXT <sup>8</sup>	SG <sup>10</sup> Semi-Diffuse	SOX <sup>13</sup> Solite™ Micro Prism Lens
	10L	1000 Lm							
	13L	1300 Lm	30K	3000K	MD 40°	DO10_ 1% 0-10V	H06 6" - 12" Expandable Bars	MW Matte White	PGX Prismatic Glass Lens
	20L	2000 Lm	35K	3500K	WD 47°	DS2W1 1% ELV/MLV, 120V	CB24 24" C-Channel Bars	MB Matte Black	FGX Frosted Glass Lens
	30L	3000 Lm	40K	4000K	XW 47°	DL3E_ 1% Lutron® EcoSystem®, Fade	EM Integral Emergency Battery	PT Platinum Silver	
	40L	4000 Lm				EL10_ 1%, eldoLED	FS Fusing	OB Oil Rubbed Bronze	SOW Solite™ Micro Prism Lens
	98 CRI					ED01_ 0.1%, eldoLED	EB Black Housing	CH Charcoal	Wet Location
	10L	1000 Lm	27HK	2700K		DALI_ DALI Control	CR Corrosion Resistant	AC Anodic Champagne	GLW Clear Glass Lens
	13L	1300 Lm	30HK	3000K		DMXS_ <sup>5</sup> DMX Standard Configuration	PR <sup>9</sup> Deep Ceiling Extension	AM Anodic Sapphire	Wet Location
	20L	2000 Lm	35HK	3500K		DMXC_ <sup>5</sup> DMX Non-Standard Custom	GOOF Ring	AS Anodic Malachite	PGW Prismatic Glass Lens Wet Location
	30L	3000 Lm	40HK	4000K			AMB Anti Microbial Finish	SN Sun Gold	FGW Frosted Glass Lens
								CO Copper Metallic	Wet Location
							GH Graphite	Wet Location	
							AMB Anti Microbial Finish	PF <sup>15</sup> Polished Flange	
							CC <sup>11</sup> Custom Color		

#### EXAMPLE: RDFO4XT10L35KMDE1/H12/RD4FXTSGSOX

NOTES:  
<sup>1</sup> Nominal Source Lumens at Any CCT <sup>2</sup> Nominal Delivered Lumens 83 CRI at Any CCT with WD-SG-SOX <sup>3</sup> XN 13L Max at 83 and 98 CRI <sup>4</sup> Contact Factory for Additional Options <sup>5</sup> Contact Factory <sup>6</sup> See Product Options Page for Details <sup>7</sup> Standard Bar Hangers <sup>8</sup> Contact Factory <sup>9</sup> "F" Indicates Self-Flange Trim, Matte White Standard <sup>10</sup> Standard Finish <sup>11</sup> Contact Factory for Special Finishes <sup>12</sup> Contact Factory for Special Lenses/Louvers <sup>13</sup> Standard Lens for MD, WD, XW <sup>14</sup> Standard Lens for XN and ND <sup>15</sup> Flange and Reflector Same Finish

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

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



# 4" ROUND DOWNLIGHT

## NON-IC RATED / PHOTOMETRIC DATA



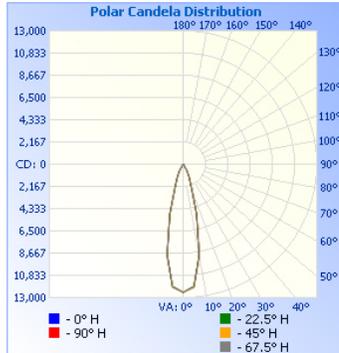
### NARROW BEAM - RDxx4XT-40LxxKNDE1-RD4xSGGLX

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

**Filename:** RDxx4XT-40LxxKNDE1-RD4xSGGLX  
**Manufacturer:** Spectrum Lighting  
**Luminaire:** 4" aperture, Narrow Beam  
**Luminaire Cat:** RDxx4LEDXT-40L-xxK-ND-E1-RD4x-SG-GLX  
**Lamp:** N/A, Min. 83 CRI  
**Lamp Cat:** N/A  
**Lamp Output:** Total luminaire Lumens: 3230.5  
**Max Candela:** 12,474.7 at Horizontal: 0°, Vertical: 0°  
**Input Wattage:** 39.9  
**Luminous Opening:** Point  
**Test:** SP-00480\_4\_M-40L  
**Test Date:** Tue Sep 08 2015

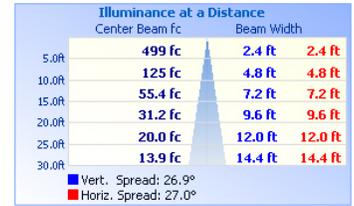
#### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	3,047.8	94.3%
0-40	3,194.7	98.9%
0-60	3,219.3	99.7%
60-90	11.2	0.3%
0-90	3,230.5	100%



#### Candela Table

	0	22.5	45	67.5	90
0	12475	12475	12475	12475	12475
5	11925	11931	11960	12016	12019
10	8976	9030	9066	9032	8956
15	5031	5057	5069	5062	5095
20	2224	2252	2258	2255	2255
25	1326	1325	1324	1332	1335
30	717	715	715	722	719
35	122	127	126	120	123
40	37	35	36	33	32
45	22	19	19	16	16
50	15	13	12	12	11
55	12	10	9	10	11
60	6	6	6	7	7
65	4	5	5	5	6
70	1	1	1	3	4
75	0	2	1	7	10
80	0	7	4	9	11
85	0	1	1	1	1
90	0	0	1	1	1



#### Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%)	88%	2,843.9	51.4	51.3
Beam (50%)	48.4%	1,562.4	27	26.9
<b>Total:</b>	<b>100.7%</b>	<b>3,252.0</b>		

SPACING RATIO: 0.46

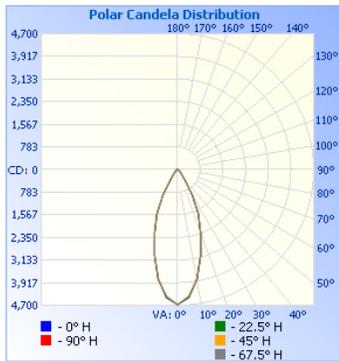
### MEDIUM BEAM - RDxx4XT-40LxxKMDE1-RD4xSGSOX

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

**Filename:** RDxx4XT-40LxxKMDE1-RD4xSGSOX  
**Manufacturer:** Spectrum Lighting  
**Luminaire:** 4" aperture, Medium Beam  
**Luminaire Cat:** RDxx4LEDXT-40L-xxK-MD-E1-RD4x-SG-SOX  
**Lamp:** N/A, Min. 83 CRI  
**Lamp Cat:** N/A  
**Lamp Output:** Total luminaire Lumens: 2534.4  
**Max Candela:** 4,671.8 at Horizontal: 0°, Vertical: 0°  
**Input Wattage:** 39.9  
**Luminous Opening:** Point  
**Test:** SP-00480\_2\_M-40L  
**Test Date:** Tue Jul 14 2015

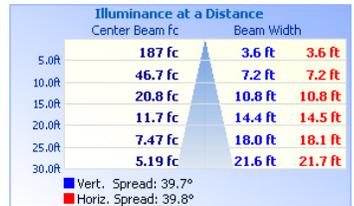
#### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1,999.9	78.9%
0-40	2,322.1	91.6%
0-60	2,502.3	98.7%
60-90	32.1	1.3%
0-90	2,534.5	100%



#### Candela Table

	0	22.5	45	67.5	90
0	4672	4672	4672	4672	4672
5	4446	4445	4396	4400	4400
10	3832	3845	3836	3865	3868
15	3082	3069	3063	3065	3071
20	2311	2317	2334	2326	2318
25	1683	1684	1689	1689	1703
30	1002	1011	1003	1005	1004
35	448	453	455	448	443
40	218	220	221	220	216
45	146	146	149	143	149
50	100	103	101	102	99
55	69	68	69	68	68
60	44	43	45	45	46
65	19	21	22	20	19
70	2	2	3	5	7
75	2	2	2	10	15
80	1	7	6	12	14
85	1	2	3	4	3
90	0	1	2	2	3



#### Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%)	87.7%	2,223.3	69.6	69.6
Beam (50%)	50.2%	1,271.5	39.8	39.7
<b>Total:</b>	<b>100.3%</b>	<b>2,541.6</b>		

SPACING RATIO: 0.64

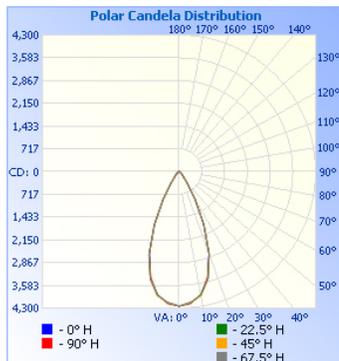
### WIDE BEAM - RDxx4XT-40LxxKWDE1-RD4xSGSOX

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

**Filename:** RDxx4XT-40LxxKWDE1-RD4xSGSOX  
**Manufacturer:** Spectrum Lighting  
**Luminaire:** 4" aperture, Wide Beam  
**Luminaire Cat:** RDxx4LEDXT-40L-xxK-WD-E1-RD4x-SG-SOX  
**Lamp:** N/A, Min. 83 CRI  
**Lamp Cat:** N/A  
**Lamp Output:** Total luminaire Lumens: 2699.5  
**Max Candela:** 4,235.3 at Horizontal: 0°, Vertical: 0°  
**Input Wattage:** 39.9  
**Luminous Opening:** Point  
**Test:** SP-00480\_1\_M-40L  
**Test Date:** Tue Jul 14 2015

#### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	2,173.4	80.5%
0-40	2,498.3	92.5%
0-60	2,668.7	98.9%
60-90	30.7	1.1%
0-90	2,699.5	100%



#### Candela Table

	0	22.5	45	67.5	90
0	4235	4235	4235	4235	4235
5	4135	4156	4138	4133	4168
10	3952	3922	3970	3944	3941
15	3503	3488	3503	3497	3448
20	2740	2764	2768	2777	2756
25	1835	1847	1850	1846	1838
30	1005	1015	1015	1018	1011
35	453	453	454	455	447
40	224	224	223	221	222
45	144	142	142	142	141
50	97	93	93	94	95
55	61	60	59	59	59
60	37	39	38	38	39
65	19	18	20	20	20
70	2	3	3	4	7
75	1	2	2	11	15
80	2	7	6	12	14
85	1	2	4	4	4
90	0	1	3	3	3



#### Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%)	89.2%	2,407.0	71	71.3
Beam (50%)	61.8%	1,667.0	47	46.9
<b>Total:</b>	<b>100.2%</b>	<b>2,705.7</b>		

SPACING RATIO: 0.78

# 4" ROUND DOWNLIGHT

## NON-IC RATED / PHOTOMETRIC DATA



### XTRA WIDE BEAM - RDxx4XT-40LxxKXWE1-RD4xSGSOX

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

Filename: **RDxx4XT-40LxxKXWE1-RD4xSGSOX**

Manufacturer: Spectrum Lighting

Luminaire: 4" aperture, Xtra Wide Beam

Luminaire Cat: RDxx4LEDXT-40L-xxK-XW-E1-RD4x-SG-SOX

Lamp: N/A, Min. 83 CRI

Lamp Cat: N/A

Lamp Output: Total luminaire Lumens: 2789.4

Max Candela: 4,391.5 at Horizontal: 0°, Vertical: 0°

Input Wattage: 39.9

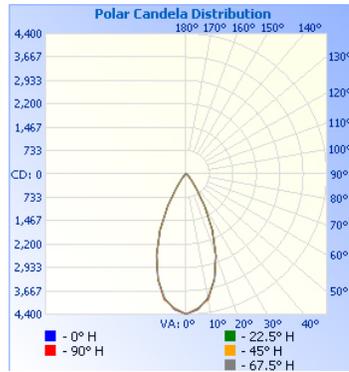
Luminous Opening: Point

Test: SP-00480\_M-40L

Test Date: Tue Jul 14 2015

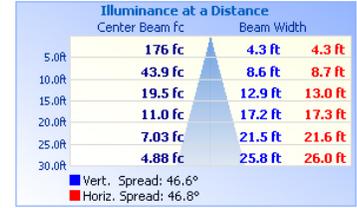
#### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	2,198.8	78.8%
0-40	2,582.0	92.6%
0-60	2,764.9	99.1%
60-90	24.5	0.9%
0-90	2,789.4	100%



#### Candela Table

	0	22.5	45	67.5	90
0	4392	4392	4392	4392	4392
5	4265	4235	4248	4249	4218
10	3942	3952	3976	3958	3995
15	3424	3402	3400	3399	3407
20	2710	2708	2716	2713	2730
25	1932	1947	1932	1931	1942
30	1158	1150	1156	1152	1154
35	552	554	551	546	545
40	265	274	270	269	266
45	159	159	159	157	155
50	96	95	95	96	94
55	58	56	57	55	55
60	34	34	34	34	34
65	16	16	17	17	16
70	2	2	2	4	5
75	1	2	2	8	11
80	1	4	3	6	7
85	0	2	3	3	4
90	0	1	2	2	3



#### Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	90.1%	2,512.8	73.8	73.9
Beam (50%):	59.5%	1,658.7	46.8	46.6
Total:	100.2%	2,795.9		

SPACING RATIO: 0.76