

A	B	C	D	E	F
6.4 162.6 mm	.625 15.2 mm	4.0 101.6 mm	5.8 147.3 mm	10L-13L: 13.2 20L: 19.2	9.5 241.3 mm

RDFI4XT - TRIM FLANGE / IC RATED

APPLICATION

Versatile 4" Round aperture recessed LED downlight for Insulated Ceiling installations 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 RDZI4 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. 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.

WATTAGE TO LUMENS UPDATE					
CURRENT PART NUMBER EXAMPLE	PREVIOUS PART NUMBER EXAMPLE	SOURCE LUMENS ¹	DELIVERED LUMENS ²	SYSTEM WATTS	LPW
RDFI4XT10L	RDFI4LEDX115W	1000	682	11.1	61
RDFI4XT13L	RDFI4LEDX120W	1300	919	15.0	61
RDFI4XT20L	RDFI4LEDX133W	2000	1414	23.7	60

SERIES	LUMENS ¹	CCT	OPTICS	DRIVER / DIMMING / VOLTAGE ⁴	OPTIONS ⁵	TRIM	FINISH	TRIM OPTIONS ¹¹						
RDFI4XT	83 CRI		XN³ 12° ND 27° MD 40° WD 47° XW 47°	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	1 120V 2 277V	BH27⁶ 27" Solid Bars H12 12" - 24" Expandable Bars HO6 6" - 12" Expandable Bars CB24 24" C-Channel Bars EMRM Remote Emergency Battery Pack FS Fusing EB Black Housing CR Corrosion Resistant PR⁷ Deep Ceiling Extension GR Goof Ring CCEA Chicago Ceiling Plenum Rated AMB Anti Microbial Finish	RD4FXT⁸	SG⁹ 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 CC¹⁰ Custom Color	SOX¹² Micro Prism Solite™ Lens GLX¹³ Clear Glass Lens PGX Prismatic Glass Lens FGX Frosted Glass Lens SOW Micro Prism Solite™ Lens Wet Location GLW Clear Glass Lens Wet Location PGW Prismatic Glass Lens Wet Location FGW Frosted Glass Lens Wet Location PF¹⁴ Polished Flange					
	10L 1000 Lm	27K 2700K								ND 27°	DS10 10% 0-10V	BH27⁶ 27" Solid Bars	SG⁹ Semi-Diffuse	SOX¹² Micro Prism Solite™ Lens
	13L 1300 Lm	30K 3000K								MD 40°	DO10 1% 0-10V	H12 12" - 24" Expandable Bars	HZ Haze Full Diffuse	GLX¹³ Clear Glass Lens
	20L 2000 Lm	35K 3500K								WD 47°	DS2W1 1% ELV/MLV, 120V	HO6 6" - 12" Expandable Bars	MW Matte White	PGX Prismatic Glass Lens
		40K 4000K								XW 47°	DL3E 1% Lutron® EcoSystem®, Fade	CB24 24" C-Channel Bars	MB Matte Black	FGX Frosted Glass Lens
											EL10 1%, eldoLED	EMRM Remote Emergency Battery Pack	PT Platinum Silver	
											EDO1 0.1%, eldoLED	FS Fusing	OB Oil Rubbed Bronze	SOW Micro Prism Solite™ Lens
											DALI DALI Control	EB Black Housing	CH Charcoal	Wet Location
	98 CRI											CR Corrosion Resistant	AC Anodic Champagne	GLW Clear Glass Lens
	10L 1000 Lm	27HK 2700K										PR⁷ Deep Ceiling Extension	AS Anodic Sapphire	Wet Location
13L 1300 Lm	30HK 3000K			GR Goof Ring	AM Anodic Malachite	PGW Prismatic Glass Lens								
20L 2000 Lm	35HK 3500K			CCEA Chicago Ceiling Plenum Rated	SN Sun Gold	Wet Location								
	40HK 4000K			AMB Anti Microbial Finish	CO Copper Metallic	FGW Frosted Glass Lens								
					GH Graphite	Wet Location								
					AMB Anti Microbial Finish	PF¹⁴ Polished Flange								
					CC¹⁰ Custom Color									

EXAMPLE: RDFI4XT10L35KMDE1/H12/RD4FXTMWSOX

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 See Product Options Page for Details 6 Standard Bar Hangers
 7 Contact Factory 8 "F" Indicates Self-Flange Trim, Matte White Standard 9 Standard Finish 10 Contact Factory for Special Finishes 11 Contact Factory for Special Lenses/Louvers 12 Standard Lens for MD, WD, XW 13 Standard Lens for XN and ND
 14 Flange and Reflector Same Finish

PROJECT: _____

QUANTITY: _____ TYPE: _____



4" ROUND IC DOWNLIGHT

IC RATED / PHOTOMETRIC DATA

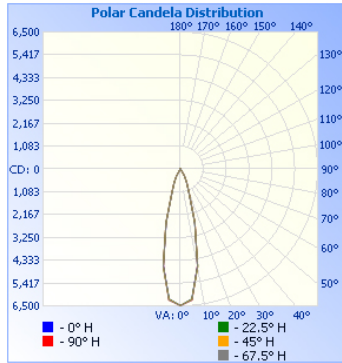
NARROW BEAM - RDxx4XT-20LxxKNDE1-RD4xSGLX

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

Filename: RDxx4XT-20LxxKNDE1-RD4xSGLX
Manufacturer: Spectrum Lighting
Luminaire: 4" aperture, Narrow Beam
Luminaire Cat: RDxx4LEDXT-20L-xxK-ND-E1-RD4x-SG-GLX
Lamp: N/A, Min. 83 CRI
Lamp Cat: N/A
Lamp Output: Total Luminaire Lumens: 1678.2
Max Candela: 6,480.3 at Horizontal: 0°, Vertical: 0°
Input Wattage: 23.7
Luminous Opening: Point
Test: SP-00480_4_M-20L
Test Date: Tue Sep 08 2015

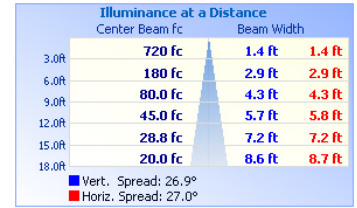
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1,583.3	94.3%
0-40	1,659.6	98.9%
0-60	1,672.4	99.7%
60-90	5.8	0.3%
0-90	1,678.2	100%



Candela Table

	0	22.5	45	67.5	90
0	6480	6480	6480	6480	6480
5	6195	6198	6213	6242	6244
10	4663	4691	4710	4692	4652
15	2614	2627	2633	2629	2647
20	1155	1170	1173	1171	1172
25	689	689	688	692	693
30	373	372	371	375	373
35	63	66	66	62	64
40	19	18	19	17	17
45	11	10	10	8	8
50	8	7	6	6	6
55	6	5	5	5	5
60	3	3	3	4	4
65	2	2	3	3	3
70	0	1	1	1	2
75	0	1	1	4	5
80	0	4	2	5	6
85	0	0	1	1	1
90	0	0	0	0	0



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%)	88%	1,477.3	51.4	51.3
Beam (50%)	48.4%	811.6	27	26.9
Total	100.7%	1,689.4		

SPACING RATIO: 0.46

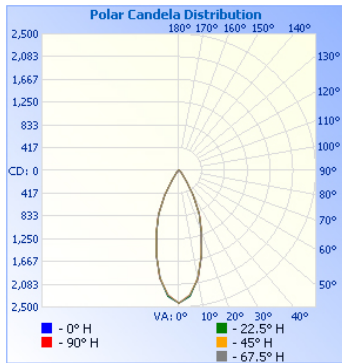
MEDIUM BEAM - RDxx4XT-20LxxKMDE1-RD4xSGSOX

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

Filename: RDxx4XT-20LxxKMDE1-RD4xSGSOX
Manufacturer: Spectrum Lighting
Luminaire: 4" aperture, Medium Beam
Luminaire Cat: RDxx4LEDXT-20L-xxK-MD-E1-RD4x-SG-SOX
Lamp: N/A, Min. 83 CRI
Lamp Cat: N/A
Lamp Output: Total Luminaire Lumens: 1316.6
Max Candela: 2,426.9 at Horizontal: 0°, Vertical: 0°
Input Wattage: 23.7
Luminous Opening: Point
Test: SP-00480_2_M-20L
Test Date: Tue Jul 14 2015

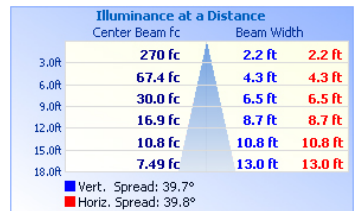
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1,038.9	78.9%
0-40	1,206.3	91.6%
0-60	1,299.9	98.7%
60-90	16.7	1.3%
0-90	1,316.6	100%



Candela Table

	0	22.5	45	67.5	90
0	2427	2427	2427	2427	2427
5	2310	2309	2284	2286	2286
10	1991	1997	1993	2008	2009
15	1601	1594	1591	1592	1595
20	1200	1204	1213	1208	1204
25	874	875	878	878	885
30	520	525	521	522	522
35	233	235	236	233	230
40	113	114	115	114	112
45	76	76	77	74	77
50	52	54	53	53	52
55	36	35	36	35	35
60	23	23	23	23	24
65	10	11	11	10	10
70	1	1	1	2	3
75	1	1	1	5	8
80	1	4	3	6	7
85	0	1	2	2	2
90	0	1	1	1	1



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%)	87.7%	1,154.9	69.6	69.6
Beam (50%)	50.2%	660.5	39.8	39.7
Total	100.3%	1,320.3		

SPACING RATIO: 0.64

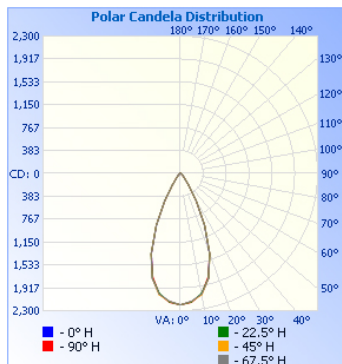
WIDE BEAM - RDxx4XT-20LxxKWDE1-RD4xSGSOX

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

Filename: RDxx4XT-20LxxKWDE1-RD4xSGSOX
Manufacturer: Spectrum Lighting
Luminaire: 4" aperture, Wide Beam
Luminaire Cat: RDxx4LEDXT-20L-xxK-WD-E1-RD4x-SG-SOX
Lamp: N/A, Min. 83 CRI
Lamp Cat: N/A
Lamp Output: Total luminaire Lumens: 1402.3
Max Candela: 2,200.2 at Horizontal: 0°, Vertical: 0°
Input Wattage: 23.7
Luminous Opening: Point
Test: SP-00480_1_M-20L
Test Date: Tue Jul 14 2015

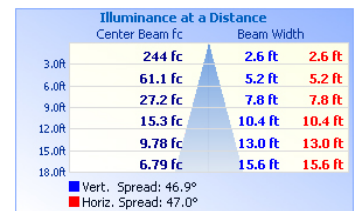
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1,129.0	80.5%
0-40	1,297.8	92.5%
0-60	1,386.4	98.9%
60-90	16.0	1.1%
0-90	1,402.3	100%



Candela Table

	0	22.5	45	67.5	90
0	2200	2200	2200	2200	2200
5	2148	2159	2150	2147	2165
10	2053	2037	2063	2049	2047
15	1820	1812	1820	1817	1791
20	1423	1436	1438	1442	1432
25	953	959	961	959	955
30	522	527	528	529	525
35	235	236	236	236	232
40	116	116	116	115	115
45	75	74	74	74	73
50	51	48	48	49	49
55	32	31	31	31	31
60	19	20	19	20	20
65	10	10	10	11	10
70	1	1	2	2	3
75	1	1	1	6	8
80	1	4	3	6	7
85	0	1	2	2	2
90	0	1	1	1	2



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%)	89.2%	1,250.4	71	71.3
Beam (50%)	61.8%	866.0	47	46.9
Total	100.2%	1,405.6		

SPACING RATIO: 0.78

4" ROUND IC DOWNLIGHT

IC RATED / PHOTOMETRIC DATA



XTRA WIDE BEAM - RDxx4XT-20LxxKXWE1-RD4xSGSOX

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

Filename: **RDxx4XT-20LxxKXWE1-RD4xSGSOX**

Manufacturer: Spectrum Lighting

Luminaire: 4" aperture, Xtra Wide Beam

Luminaire Cat: RDxx4LEDXT-20L-xxK-XW-E1-RD4x-SG-SOX

Lamp: N/A, Min. 83 CRI

Lamp Cat: N/A

Lamp Output: Total luminaire Lumens: 1449

Max Candela: 2,281.3 at Horizontal: 0°, Vertical: 0°

Input Wattage: 23.7

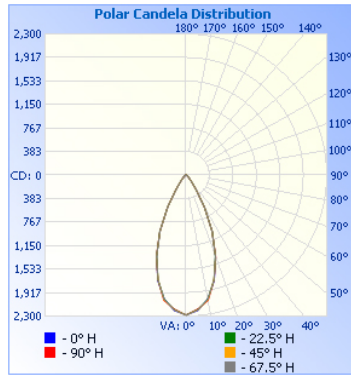
Luminous Opening: Point

Test: SP-00480_M-20L

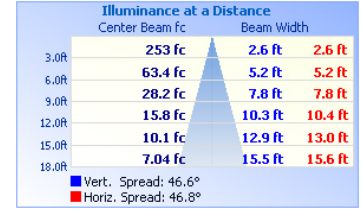
Test Date: Tue Jul 14 2015

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1,142.3	78.8%
0-40	1,341.3	92.6%
0-60	1,436.3	99.1%
60-90	12.7	0.9%
0-90	1,449.0	100%



Candela Table					
	0	22.5	45	67.5	90
0	2281	2281	2281	2281	2281
5	2216	2200	2207	2207	2191
10	2048	2053	2066	2056	2075
15	1779	1768	1766	1766	1770
20	1408	1407	1411	1409	1418
25	1004	1012	1004	1003	1009
30	602	598	600	598	599
35	287	288	286	284	283
40	138	142	140	140	138
45	83	82	82	81	80
50	50	49	49	50	49
55	30	29	29	29	29
60	18	17	18	17	18
65	8	9	9	9	9
70	1	1	1	2	3
75	1	1	1	4	6
80	0	2	1	3	3
85	0	1	1	2	2
90	0	0	1	1	1



Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%)	90.1%	1,305.3	73.8	73.9
Beam (50%)	59.5%	861.7	46.8	46.6
Total	100.2%	1,452.4		

SPACING RATIO: 0.76