

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

RDZO6XT - TRIMLESS / NON-IC RATED

APPLICATION

Versatile 6" Round aperture recessed LED downlight with flangeless trim and 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. Plaster mesh fitter included.

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. Flangeless 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 PART NUMBER EXAMPLE	PREVIOUS PART NUMBER EXAMPLE	SOURCE LUMENS ¹	DELIVERED LUMENS ²	SYSTEM WATTS	LPW
RDZO6XT10L	RDZO6LEDX115W	1000	754	11.1	68
RDZO6XT13L	RDZO6LEDX120W	1300	1015	15.0	68
RDZO6XT20L	RDZO6LEDX133W	2000	1562	23.7	66
RDZO6XT30L	RDZO6LEDX152W	3000	2343	34.6	68
RDZO6XT40L	N/A	4000	3007	39.9	75
RDZO6XT50L	N/A	5000	3906	54.0	72

SERIES	LUMENS ¹	CCT	OPTICS	DRIVER / DIMMING / VOLTAGE ⁴	OPTIONS ⁷	TRIM	FINISH	TRIM OPTIONS ¹³			
RDZO6XT	83 CRI		XN³ 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 ⁵ 1% Lutron® EcoSystem®, Fade EL10 1%, eldoLED EDO1 0.1%, eldoLED DALI DALI Control DMXS ⁶ DMX Standard Configuration DMXC ⁶ DMX Non-Standard Custom AWN Athena Wireless Node (RF Module Only)	1 120V 2 277V	BH27⁵ 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 PR² Deep Ceiling Extension AMB Anti Microbial Finish	RD6NXT ¹⁰	SG¹¹ 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 CC¹² Custom Color	SOX¹⁴ Micro Prism Solite™ Lens GLX¹⁵ 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		
	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: RDZO6XT13L35KMDE1/H12/RD6NXTMWSOX

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 "N" Indicates Flangeless Trim 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

PROJECT: _____
 QUANTITY: _____ TYPE: _____



6" ROUND TRIMLESS DOWNLIGHT

NON-IC RATED / PHOTOMETRIC DATA



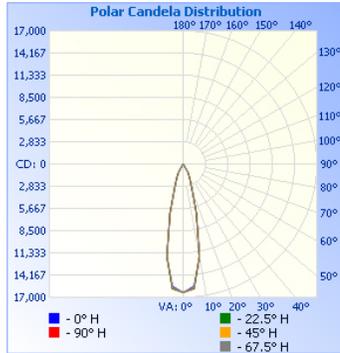
NARROW BEAM - RDxx6XT-50LxxKNDE1-RD6xSGGLX

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

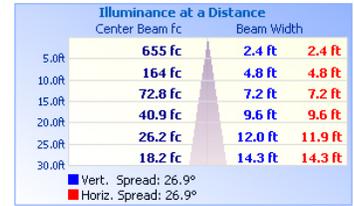
Zonal Lumen Summary

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



Flood Summary

	Efficiency Lumens	Horizontal Spread	Vertical Spread
Field (10%)	90.6%	3,927.3	54.2
Beam (50%)	47.5%	2,059.8	26.9
Total	100.6%	4,363.6	

SPACING RATIO: 0.46

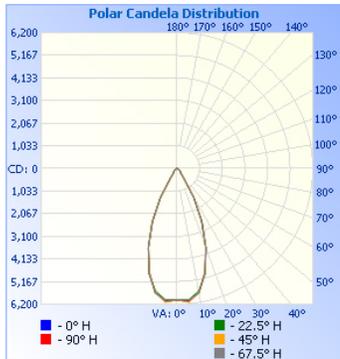
MEDIUM BEAM - RDxx6XT-50LxxKMDE1-RD6xSGSOX

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



Flood Summary

	Efficiency Lumens	Horizontal Spread	Vertical Spread
Field (10%)	90.1%	3,403.0	69.1
Beam (50%)	62.8%	2,372.8	46.9
Total	100.2%	3,784.9	

SPACING RATIO: 0.76

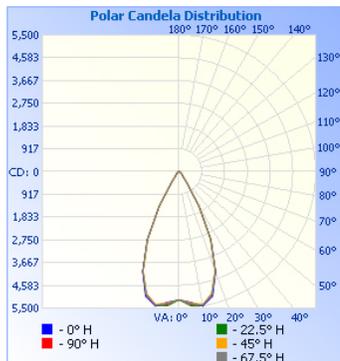
WIDE BEAM - RDxx6XT-50LxxKWDE1-RD6xSGSOX

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

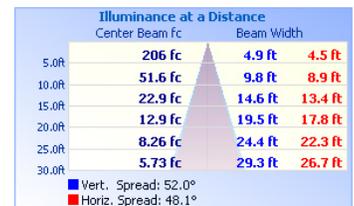
Zonal Lumen Summary

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



Flood Summary

	Efficiency Lumens	Horizontal Spread	Vertical Spread
Field (10%)	92%	3,568.0	68.5
Beam (50%)	70.6%	2,737.6	48.1
Total	100.2%	3,885.3	

SPACING RATIO: 0.88

6" ROUND TRIMLESS 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

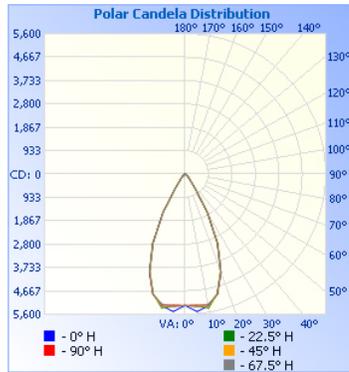
Luminous Opening: Point

Test: SP-00476_2

Test Date: Fri Jun 19 2015

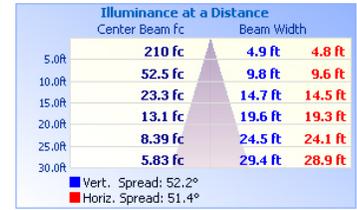
Zonal Lumen Summary

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