

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

SDF06XT - TRIM FLANGE / NON-IC RATED

APPLICATION

Versatile 6" Square 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 SDZ06 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 die-cast 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
SDF06XT10L	SDF06LEDXI15W	1000	710	11.1	64
SDF06XT13L	SDF06LEDXI20W	1300	956	15.0	64
SDF06XT20L	SDF06LEDXI33W	2000	1471	23.7	62
SDF06XT30L	SDF06LEDXI52W	3000	2207	34.6	64
SDF06XT40L	N/A	4000	2832	39.9	71
SDF06XT50L	N/A	5000	3678	54.0	68

SERIES	LUMENS¹		CCT	OPTICS	DRIVER / DIMMING / VOLTAGE⁴				OPTIONS⁷	TRIM	FINISH		TRIM OPTIONS¹⁴	
SDF06XT	83 CRI				XN⁵ 12° ND 24° MD 39° WD 55° XW 56°	E_ Electronic Driver DS10_ 10% 0-10V DO10_ 1% 0-10V DS2W1 1%, ELV/MLV, 120V DL3E¹⁵ 1% Lutron® EcoSystem®, Fade EL10_ 1%, eldoLED EDO1_ 0.1%, eldoLED DALI_ DALI Control DMXS_¹⁶ DMX Standard Configuration DMXC_¹⁶ DMX Non-Standard Custom	1 120V 2 277V	BH27⁸ 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 PR⁹ Deep Ceiling Extension GR Goof Ring AMB Anti Microbial Finish	SD6FXT¹⁰	MW¹¹ Matte White MB Matte Black SG¹² Semi-Diffuse HZ¹² Haze Full Diffuse PT Platinum Silver BZ Bronze CH Charcoal AS Anodic Sapphire AM Anodic Malachite SN Sun Gold CO Copper Metallic GH Graphite AMB Anti Microbial Finish CC¹³ Custom Color	SOX¹⁵ Micro Prism Solite™ Lens GLX¹⁶ 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 Wet Location Wet Location 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: SDF06XT40L35KMDE1/H12/SD6FXTMWSOX

NOTES:

1 Nominal Source Lumens at Any CCT 2 Nominal Delivered Lumens 83 CRI at Any CCT with WD-MW-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 Anodized Reflector with Matte White Flange 13 Contact Factory for Special Finishes
14 Contact Factory for Special Lenses/Louvers 15 Standard Lens for MD, WD, XW 16 Standard Lens for XN and ND

PROJECT:

QUANTITY:

TYPE:

6" SQUARE DOWNLIGHT

NON-IC RATED / PHOTOMETRIC DATA



Spectrum Lighting

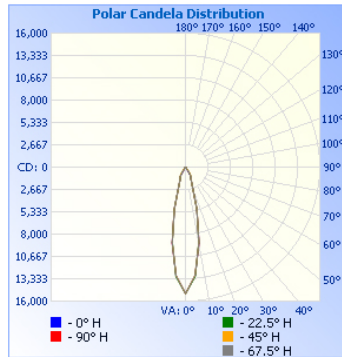
NARROW BEAM - SDxx6XT-50LxxKNDE1-SD6xMWGLX

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

Filename: SDxx6XT-50LxxKNDE1-SD6xMWGLX
Manufacturer: Spectrum Lighting
Luminaire: 6" Square, Downlight, Narrow Beam
Luminaire Cat: SDxx6XT-50L-xxK-ND-E1-SD6x-MW-GLX
Lamp: N/A, Min. 83 CRI
Lamp Cat: N/A
Lamp Output: Total luminaire Lumens: 3859.7
Max Candela: 15,089.3 at Horizontal: 0°, Vertical: 0°
Input Wattage: 54
Luminous Opening: Rectangle w/Luminous Sides (L: 9.5", W: 11.13", H: 9.78")
Test: SP-00488
Test Date: Wed Sep 30 2015

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	3,263.4	84.6%
0-40	3,684.8	95.5%
0-60	3,790.9	98.2%
60-90	68.8	1.8%
0-90	3,859.7	100%



Candela Table					
	0	22.5	45	67.5	90
0	15089	15089	15089	15089	15089
5	13003	13103	12967	12971	12994
10	9154	9071	9130	9135	9196
15	5139	5203	5172	5170	5189
20	2312	2321	2300	2309	2310
25	1483	1479	1500	1496	1487
30	1254	1296	1307	1312	1230
35	361	689	924	689	365
40	60	118	372	117	57
45	55	55	85	54	54
50	55	53	51	51	49
55	43	48	47	45	46
60	39	40	42	42	39
65	31	34	33	34	30
70	24	28	30	28	24
75	20	24	23	23	22
80	15	19	18	19	16
85	9	11	10	12	9
90	3	4	4	4	3

Illuminance at a Distance		
Center Beam fc	Beam Width	
5.0ft	604 fc	2.1 ft
10.0ft	151 fc	4.3 ft
15.0ft	67.1 fc	6.4 ft
20.0ft	37.7 fc	8.5 ft
25.0ft	24.1 fc	10.6 ft
30.0ft	16.8 fc	12.8 ft
■ Vert. Spread: 24.0° ■ Horiz. Spread: 24.1°		

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	77.1%	2,976.6	49.7	49.7
Beam (50%):	38.5%	1,487.6	24.1	24
Total:	100.7%	3,885.8		

SPACING RATIO: 0.42

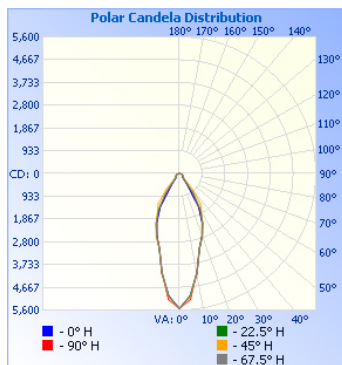
MEDIUM BEAM - SDxx6XT-50LxxKMDE1-SD6xMWSOX

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

Filename: SDxx6XT-50LxxKMDE1-SD6xMWSOX
Manufacturer: Spectrum Lighting
Luminaire: 6" Square, Downlight, Medium Beam
Luminaire Cat: SDxx6XT-50L-xxK-MD-E1-SD6x-MW-SOX
Lamp: N/A, Min. 83 CRI
Lamp Cat: N/A
Lamp Output: Total luminaire Lumens: 3613.6
Max Candela: 5,533.0 at Horizontal: 0°, Vertical: 0°
Input Wattage: 54
Luminous Opening: Rectangle w/Luminous Sides (L: 9.5", W: 11.13", H: 9.78")
Test: SP-00488_1
Test Date: Wed Sep 30 2015

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	2,376.4	65.8%
0-40	3,007.8	83.2%
0-60	3,362.3	93%
60-90	251.3	7%
0-90	3,613.6	100%



Candela Table					
	0	22.5	45	67.5	90
0	5533	5533	5533	5533	5533
5	5025	5032	5098	5053	5188
10	4157	4126	4145	4120	4109
15	3181	3196	3173	3163	3168
20	2729	2727	2768	2739	2701
25	2198	2250	2261	2269	2192
30	1582	1706	1795	1721	1580
35	571	987	1511	989	573
40	221	290	846	288	217
45	195	214	260	208	200
50	192	193	199	196	178
55	164	173	179	177	165
60	148	156	161	153	149
65	127	136	135	138	130
70	110	115	115	113	109
75	79	83	86	84	83
80	53	53	53	53	53
85	28	25	28	27	27
90	9	8	6	7	5

Illuminance at a Distance		
Center Beam fc	Beam Width	
5.0ft	221 fc	3.6 ft
10.0ft	55.3 fc	7.1 ft
15.0ft	24.6 fc	10.7 ft
20.0ft	13.8 fc	14.2 ft
25.0ft	8.85 fc	17.8 ft
30.0ft	6.15 fc	21.3 ft
■ Vert. Spread: 39.2° ■ Horiz. Spread: 38.6°		

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	82.7%	2,987.2	70.6	70.5
Beam (50%):	37.4%	1,352.9	38.6	39.2
Total:	100.2%	3,622.0		

SPACING RATIO: 0.58

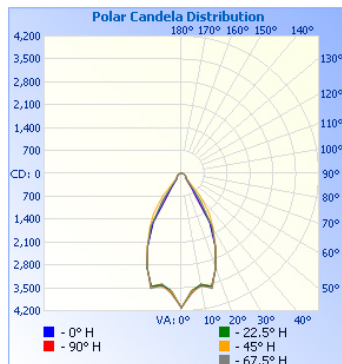
WIDE BEAM - SDxx6XT-50LxxKWDE1-SD6xMWSOX

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

Filename: SDxx6XT-50LxxKWDE1-SD6xMWSOX
Manufacturer: Spectrum Lighting
Luminaire: 6" Square, Downlight, Wide Beam
Luminaire Cat: SDxx6XT-50L-xxK-WD-E1-SD6x-MW-SOX
Lamp: N/A, Min. 83 CRI
Lamp Cat: N/A
Lamp Output: Total luminaire Lumens: 3657.3
Max Candela: 4,106.6 at Horizontal: 0°, Vertical: 0°
Input Wattage: 54
Luminous Opening: Rectangle w/Luminous Sides (L: 9.5", W: 11.13", H: 9.78")
Test: SP-00488_2
Test Date: Wed Sep 30 2015

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	2,426.1	66.3%
0-40	3,079.3	84.2%
0-60	3,422.2	93.6%
60-90	235.1	6.4%
0-90	3,657.3	100%



Candela Table					
	0	22.5	45	67.5	90
0	4106	4106	4106	4106	4106
5	3594	3599	3611	3681	3648
10	3484	3433	3519	3463	3462
15	3590	3582	3610	3642	3565
20	3066	3072	3050	3060	3068
25	2432	2449	2472	2445	2459
30	1728	1864	1939	1872	1744
35	560	981	1483	979	553
40	243	317	878	320	239
45	192	204	249	202	198
50	175	182	185	183	171
55	149	160	168	157	151
60	135	147	148	147	136
65	117	127	128	127	128
70	102	106	102	103	102
75	75	79	78	80	78
80	49	51	52	51	52
85	24	27	26	25	25
90	7	7	8	6	7

Illuminance at a Distance		
Center Beam fc	Beam Width	
5.0ft	164 fc	5.2 ft
10.0ft	41.1 fc	10.5 ft
15.0ft	18.2 fc	15.7 ft
20.0ft	10.3 fc	21.0 ft
25.0ft	6.57 fc	26.2 ft
30.0ft	4.56 fc	31.5 ft
■ Vert. Spread: 55.4° ■ Horiz. Spread: 55.7°		

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	84.9%	3,104.3	74.5	74.7
Beam (50%):	61.6%	2,252.9	55.7	55.4
Total:	100.1%	3,662.5		

SPACING RATIO: 0.88

6" SQUARE DOWNLIGHT
NON-IC RATED / PHOTOMETRIC DATA



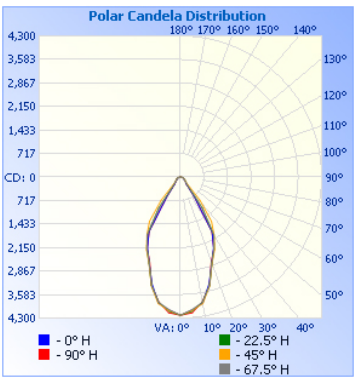
XTRA WIDE BEAM - SDxx6XT-50LxxKXWE1-SD6xMWSOX

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

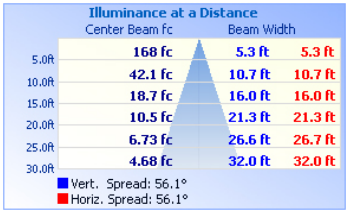
Filename: SDxx6XT-50LxxKXWE1-SD6xMWSOX
Manufacturer: Spectrum Lighting
Luminaire: 6" Square, Downlight, Xtra Wide Beam
Luminaire Cat: SDxx6XT-50L-xxK-XW-E1-SD6x-MW-SOX
Lamp: N/A, Min. 83 CRI
Lamp Cat: N/A
Lamp Output: Total luminaire Lumens: 3736.6
Max Candela: 4,208.7 at Horizontal: 0°, Vertical: 0°
Input Wattage: 54
Luminous Opening: Rectangle (L: 6", W: 6")
Test: SP-00488_3
Test Date: Wed Sep 30 2015

Zonal Lumen Summary

Table with 3 columns: Zone, Lumens, % Luminaire. Rows show data for zones 0-30, 0-40, 0-60, 0-90, and 0-90.



Candela Table: A table showing candela values for various distances (0 to 90 feet) and viewing angles (0 to 90 degrees).



Flood Summary: A table summarizing efficiency, lumens, horizontal spread, and vertical spread for field and beam percentages.

SPACING RATIO: 0.82