

A	B	C	D	E	F
6.4	.625	6.0	7.5	10L-13L: 13.2	9.5
162.6 mm	15.2 mm	152.4 mm	191.0 mm	20L: 19.2	241.3 mm

SDFI6XT - TRIM FLANGE / IC RATED

APPLICATION

Versatile 6" Square 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 SDZI6 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. 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
SDFI6XT10L	SDFI6LEDXI15W	1000	710	11.1	64
SDFI6XT13L	SDFI6LEDXI20W	1300	956	15.0	64
SDFI6XT20L	SDFI6LEDXI33W	2000	1471	23.7	62

SERIES	LUMENS ¹	CCT	OPTICS	DRIVER / DIMMING / VOLTAGE ⁴	OPTIONS ⁵	TRIM	FINISH	TRIM OPTIONS ¹²			
SDFI6XT	83 CRI		XN³ 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 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 H06 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	SD6FXT⁹	MW⁹ Matte White MB Matte Black SG¹⁰ Semi-Diffuse HZ¹⁰ 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 CC¹¹ Custom Color	SOX¹³ Micro Prism Solite™ Lens GLX¹⁴ 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
										40K	4000K
	98 CRI										
	10L	1000 Lm								27HK	2700K
	13L	1300 Lm								30HK	3000K
	20L	2000 Lm								35HK	3500K
										40HK	4000K

EXAMPLE: SDFI6XT10L35KMDE1/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 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 Anodized Reflector with Matte White Flange 11 Contact Factory for Special Finishes 12 Contact factory for Special Lenses/Louvers 13 Standard Lens for MD, WD, XW 14 Standard Lens for XN and ND

PROJECT: _____

QUANTITY: _____ TYPE: _____



6" SQUARE IC DOWNLIGHT

IC RATED / PHOTOMETRIC DATA



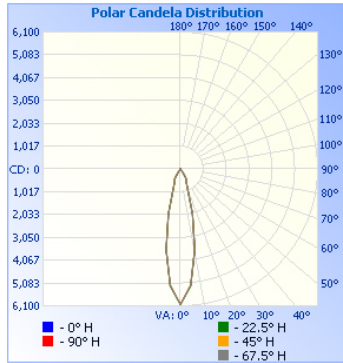
NARROW BEAM - SDxx6XT-20LxxKNDE1-SD6xMWGLX

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

Filename: SDxx6XT-20LxxKNDE1-SD6xMWGLX
Manufacturer: Spectrum Lighting
Luminaire: 6" Square, Downlight, Narrow Beam
Luminaire Cat: SDxx6XT-20L-xxK-ND-E1-SD6x-MW-GLX
Lamp: N/A, Min. 83 CRI
Lamp Cat: N/A
Lamp Output: Total Luminaire Lumens: 1543.9
Max Candela: 6,035.7 at Horizontal: 0°, Vertical: 0°
Input Wattage: 23.7
Luminous Opening: Rectangle w/Luminous Sides (L: 9.5", W: 11.13", H: 9.78")
Test: SP-00488_M-20L
Test Date: Wed Sep 30 2015

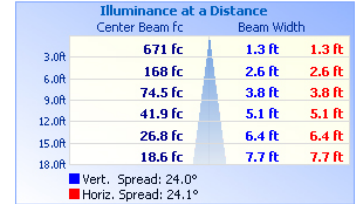
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1,305.4	84.6%
0-40	1,473.9	95.5%
0-60	1,516.4	98.2%
60-90	27.5	1.8%
0-90	1,543.9	100%



Candela Table

	0	22.5	45	67.5	90
0	6036	6036	6036	6036	6036
5	5201	5241	5187	5189	5197
10	3662	3628	3652	3654	3679
15	2056	2081	2069	2068	2076
20	925	928	920	924	924
25	593	592	600	598	595
30	502	518	523	525	492
35	144	276	370	276	146
40	24	47	149	47	23
45	22	22	34	21	22
50	22	21	21	20	20
55	17	19	19	18	18
60	15	16	17	17	15
65	12	13	13	14	12
70	10	11	12	11	10
75	8	10	9	9	9
80	6	8	7	8	7
85	4	5	4	5	4
90	1	2	2	1	1



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%)	77.1%	1,190.6	49.7	49.7
Beam (50%)	38.5%	595.1	24.1	24
Total	100.7%	1,554.3		

SPACING RATIO: 0.42

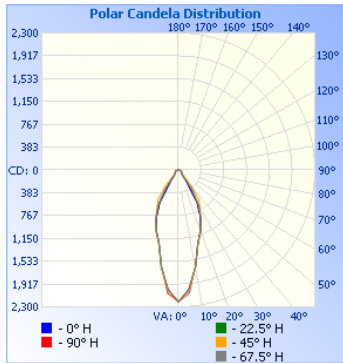
MEDIUM BEAM - SDxx6XT-20LxxKMDE1-SD6xMWSOX

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

Filename: SDxx6XT-20LxxKMDE1-SD6xMWSOX
Manufacturer: Spectrum Lighting
Luminaire: 6" Square, Downlight, Medium Beam
Luminaire Cat: SDxx6XT-20L-xxK-MD-E1-SD6x-MW-SOX
Lamp: N/A, Min. 83 CRI
Lamp Cat: N/A
Lamp Output: Total Luminaire Lumens: 1445.4
Max Candela: 2,213.2 at Horizontal: 0°, Vertical: 0°
Input Wattage: 23.7
Luminous Opening: Rectangle w/Luminous Sides (L: 9.5", W: 11.13", H: 9.78")
Test: SP-00488_I_M-20L
Test Date: Wed Sep 30 2015

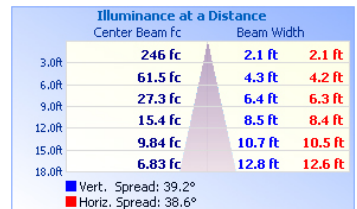
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	950.6	65.8%
0-40	1,203.1	83.2%
0-60	1,344.9	93%
60-90	100.5	7%
0-90	1,445.4	100%



Candela Table

	0	22.5	45	67.5	90
0	2213	2213	2213	2213	2213
5	2010	2013	2039	2021	2075
10	1663	1650	1658	1648	1644
15	1272	1279	1269	1265	1267
20	1091	1091	1107	1096	1080
25	879	900	905	908	877
30	633	682	718	688	632
35	228	395	604	396	229
40	88	116	338	115	87
45	78	85	104	83	80
50	77	77	80	78	71
55	66	69	72	71	66
60	59	62	64	61	60
65	51	54	54	55	52
70	44	46	46	45	43
75	32	33	34	33	33
80	21	21	21	21	21
85	11	10	11	11	11
90	3	3	2	3	2



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%)	82.7%	1,194.9	70.6	70.5
Beam (50%)	37.4%	541.2	38.6	39.2
Total	100.2%	1,448.8		

SPACING RATIO: 0.58

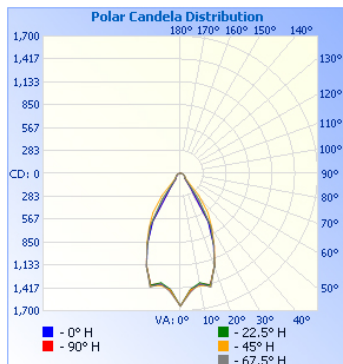
WIDE BEAM - SDxx6XT-20LxxKWDE1-SD6xMWSOX

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

Filename: SDxx6XT-20LxxKWDE1-SD6xMWSOX
Manufacturer: Spectrum Lighting
Luminaire: 6" Square, Downlight, Wide Beam
Luminaire Cat: SDxx6XT-20L-xxK-WD-E1-SD6x-MW-SOX
Lamp: N/A, Min. 83 CRI
Lamp Cat: N/A
Lamp Output: Total Luminaire Lumens: 1462.9
Max Candela: 1,642.3 at Horizontal: 0°, Vertical: 0°
Input Wattage: 23.7
Luminous Opening: Rectangle w/Luminous Sides (L: 9.5", W: 11.13", H: 9.78")
Test: SP-00488_2_M-20L
Test Date: Wed Sep 30 2015

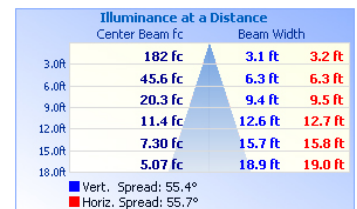
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	970.4	66.3%
0-40	1,231.7	84.2%
0-60	1,368.9	93.6%
60-90	94.0	6.4%
0-90	1,462.9	100%



Candela Table

	0	22.5	45	67.5	90
0	1642	1642	1642	1642	1642
5	1437	1439	1444	1472	1459
10	1393	1373	1408	1385	1385
15	1436	1433	1444	1457	1426
20	1226	1229	1220	1224	1227
25	973	980	989	978	983
30	691	746	776	749	698
35	224	392	593	392	221
40	97	127	351	128	96
45	77	82	100	81	79
50	70	73	74	73	68
55	59	64	67	63	60
60	54	59	59	59	55
65	47	51	51	51	51
70	41	42	41	41	41
75	30	31	31	32	31
80	20	20	21	20	21
85	10	11	10	10	10
90	3	3	3	2	3



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%)	84.9%	1,241.7	74.5	74.7
Beam (50%)	61.6%	901.1	55.7	55.4
Total	100.1%	1,465.0		

SPACING RATIO: 0.88

6" SQUARE IC DOWNLIGHT

IC RATED / PHOTOMETRIC DATA



XTRA WIDE BEAM - SDxx6XT-20LxxKXWE1-SD6xMWSOX

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

Filename: SDxx6XT-20LxxKXWE1-SD6xMWSOX

Manufacturer: Spectrum Lighting

Luminaire: 6" Square, Downlight, Xtra Wide Beam

Luminaire Cat: SDxx6LEDXT-20L-xxK-XW-E1-SD6x-MW-SOX

Lamp: N/A, Min. 83 CRI

Lamp Cat: N/A

Lamp Output: Total luminaire Lumens: 1494.6

Max Candela: 1,683.5 at Horizontal: 0°, Vertical: 0°

Input Wattage: 23.7

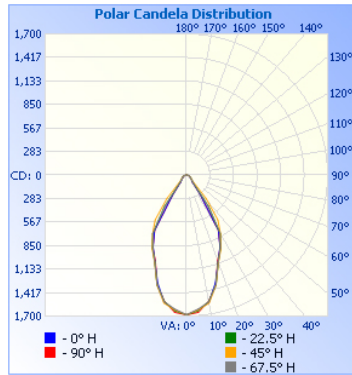
Luminous Opening: Rectangle (L: 6", W: 6")

Test: SP-00488_3_M-20L

Test Date: Wed Sep 30 2015

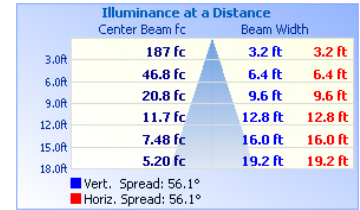
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	968.1	64.8%
0-40	1,261.8	84.4%
0-60	1,406.4	94.1%
60-90	88.2	5.9%
0-90	1,494.6	100%



Candela Table

	0	22.5	45	67.5	90
0	1683	1683	1683	1683	1683
5	1627	1640	1631	1619	1600
10	1557	1546	1566	1548	1541
15	1344	1369	1371	1365	1364
20	1114	1117	1121	1113	1098
25	952	967	979	965	962
30	771	813	817	807	766
35	292	459	658	463	290
40	113	141	366	143	114
45	90	97	115	97	91
50	68	73	74	73	67
55	58	64	68	65	60
60	50	54	55	55	53
65	45	47	48	47	46
70	37	39	40	39	37
75	29	30	29	30	28
80	18	19	20	19	18
85	9	10	9	10	10
90	3	3	3	3	2



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	85.5%	1,277.5	76.9	76.9
Beam (50%):	60.7%	907.3	56.1	56.1
Total:	100.1%	1,496.9		

SPACING RATIO: 0.82