

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SDXX6XT-50LXXKXWE1-SD6XMWSOX.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 2014.1.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUE DATE]

[TEST DATE] Wed Sep 30 2015

[UPDATE] Wed Jul 13 2016

[TEST] SP-00488\_3

[MANUFAC] Spectrum Lighting

[LUMCAT] SDxx6XT-50L-xxK-XW-E1-SD6x-MW-SOX

[LUMINAIRE] 6" Square, Downlight, Xtra Wide Beam

[TRIM] Matte White, regressed Solite Lens

[LAMP] N/A, Min. 83 CRI

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] For Housings: SDFO6, and SDZO6 series

[OTHER] For Trims: SD6F and SD6N series

[OTHER] LEDXT lumen output is the same for all available color temperatures

[OTHER] This report prepared by Spectrum Lighting

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3758
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	54
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.82
Spacing Criterion (90-270)	0.80
Spacing Criterion (Diagonal)	0.94
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13670	17453	13788
55	10801	12734	11239
65	11516	12292	11689
75	11991	12199	11770
85	10730	11643	12161

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	4208.72	4208.72	4208.72	4208.72	4208.72
<b>5</b>	4066.38	4100.28	4076.55	4048.39	4148.92
<b>10</b>	3893.28	3865.43	3914.07	3870.32	3852.12
<b>15</b>	3361.05	3421.47	3428.31	3413.41	3409.29
<b>20</b>	2785.97	2792.69	2802.72	2783.49	2745.39
<b>25</b>	2380.56	2418.17	2447.70	2412.76	2405.38
<b>30</b>	1926.66	2033.26	2042.64	2016.44	1913.92
<b>35</b>	730.93	1148.21	1645.08	1156.40	724.85
<b>40</b>	282.41	352.20	913.77	357.64	285.48
<b>45</b>	224.72	241.36	286.90	242.47	226.65
<b>50</b>	169.02	182.04	185.86	181.96	168.01
<b>55</b>	144.02	159.42	169.80	161.94	149.87
<b>60</b>	125.56	135.46	137.80	138.16	133.09
<b>65</b>	113.14	116.88	120.77	118.62	114.84
<b>70</b>	92.75	97.36	98.97	97.23	92.73
<b>75</b>	72.15	75.90	73.40	74.84	70.82
<b>80</b>	45.19	47.99	50.26	47.25	45.71
<b>85</b>	21.74	24.75	23.59	24.89	24.64
<b>90</b>	6.62	7.50	6.65	7.03	5.48

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1327.44	N.A.	35.30
0-30	2432.74	N.A.	64.70
0-40	3174.59	N.A.	84.50
0-60	3537.49	N.A.	94.10
0-80	3730.27	N.A.	99.30
0-90	3758.25	N.A.	100.00
10-90	3374.24	N.A.	89.80
20-40	1847.15	N.A.	49.10
20-50	2068.2	N.A.	55.00
40-70	478.57	N.A.	12.70
60-80	192.78	N.A.	5.10
70-80	77.11	N.A.	2.10
80-90	27.99	N.A.	0.70
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3758.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	384.02
10-20	943.42
20-30	1105.3
30-40	741.85
40-50	221.05
50-60	141.86
60-70	115.67
70-80	77.11
80-90	27.99
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

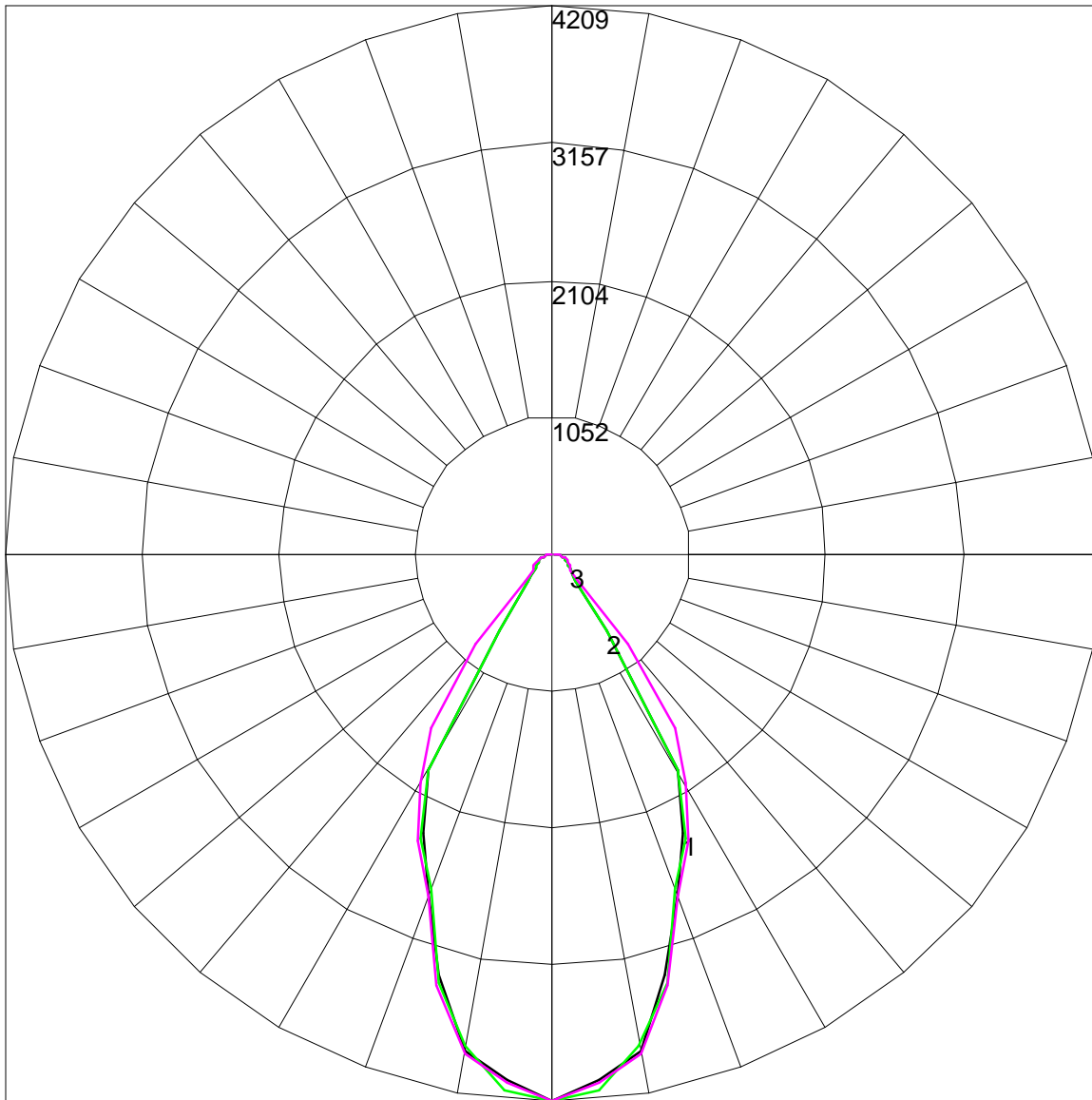
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65
6	85	75	69	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	76	66	60	55	75	66	59	55	64	59	55	63	58	55	62	58	54	53
9	73	62	56	52	71	62	56	52	61	55	52	60	55	51	59	55	51	50
10	69	59	53	49	68	58	53	49	58	52	48	57	52	48	56	51	48	47

POLAR GRAPH



Maximum Candela = 4208.72 Located At Horizontal Angle = 0, Vertical Angle = 0

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Vertical Plane Through Horizontal Angles (45 - 225)