

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SDXX4XT-13LXXKMDE1-SD4XMWSOX.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)

[ISSUEDATE]

[TESTDATE] Wed Sep 30 2015

[UPDATE] Wed Jul 13 2016

[TEST] SP-00487\_1\_M-13L

[MANUFAC] Spectrum Lighting

[LUMCAT] SDxx4LEDXT-13L-xxK-MD-E1-SD4x-MW-SOX

[LUMINAIRE] 4" Square, Downlight, Medium 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: SDFI4, SDFO4, SDZI4, and SDZO4 series

[OTHER] For Trims: SD4F and SD4N series

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

[OTHER] This report prepared by Spectrum Lighting, scaled from 50L report

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	892
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.54
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.72
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SDXX4XT-13LXXKMDE1-SD4XMWSOX.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7128	6671	7146
55	7785	7412	7789
65	8038	7588	7870
75	6596	6947	6956
85	6113	6330	6301

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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>	1657.934	1657.934	1657.934	1657.934	1657.934
<b>5</b>	1527.003	1557.252	1561.531	1537.268	1564.956
<b>10</b>	1241.219	1251.874	1251.349	1256.133	1254.588
<b>15</b>	898.537	922.438	951.909	924.222	902.080
<b>20</b>	687.965	722.665	779.670	720.736	690.914
<b>25</b>	527.116	574.111	617.588	578.640	537.412
<b>30</b>	208.972	304.850	464.480	308.885	210.132
<b>35</b>	79.680	101.135	237.944	100.547	80.928
<b>40</b>	54.831	55.650	68.780	53.615	57.905
<b>45</b>	52.065	51.108	48.727	49.652	52.200
<b>50</b>	50.084	47.351	46.683	47.211	50.799
<b>55</b>	46.129	44.080	43.919	43.459	46.150
<b>60</b>	41.917	40.362	39.853	40.446	41.454
<b>65</b>	35.092	34.819	33.129	35.025	34.359
<b>70</b>	25.792	26.343	27.030	26.192	25.145
<b>75</b>	17.636	19.521	18.574	18.928	18.598
<b>80</b>	11.411	12.038	12.449	11.861	10.566
<b>85</b>	5.504	5.793	5.699	5.754	5.673
<b>90</b>	1.641	1.651	1.459	1.518	1.877

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	403.93	N.A.	45.30
0-30	654.27	N.A.	73.30
0-40	752.28	N.A.	84.30
0-60	832.05	N.A.	93.20
0-80	885.62	N.A.	99.20
0-90	892.38	N.A.	100.00
10-90	753.78	N.A.	84.50
20-40	348.35	N.A.	39.00
20-50	388.40	N.A.	43.50
40-70	113.37	N.A.	12.70
60-80	53.57	N.A.	6.00
70-80	19.97	N.A.	2.20
80-90	6.77	N.A.	0.80
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	892.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	138.60
10-20	265.33
20-30	250.33
30-40	98.01
40-50	40.05
50-60	39.72
60-70	33.60
70-80	19.97
80-90	6.77
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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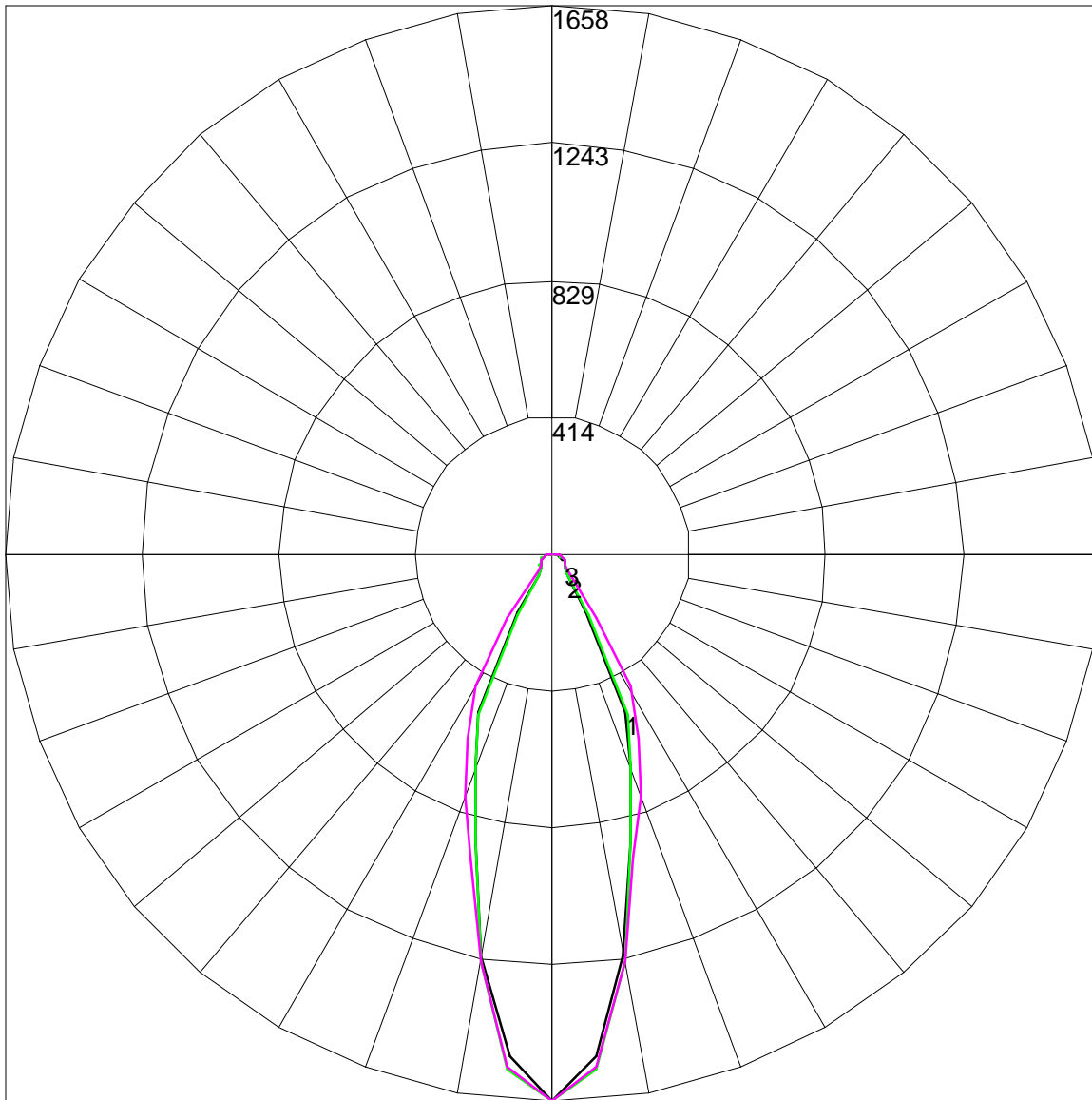
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	90	88	86	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68
6	87	78	72	67	86	77	71	67	76	71	67	74	70	66	73	69	66	64
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61
8	79	70	64	60	78	69	64	60	68	63	60	67	63	59	66	62	59	58
9	76	67	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55
10	73	63	58	54	72	63	58	54	62	57	54	61	57	54	61	56	53	52

POLAR GRAPH



Maximum Candela = 1657.934 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)