

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SDXX4XT-20LXXKXWE1-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)

[ISSUE DATE]

[TEST DATE] Wed Sep 30 2015

[UPDATE] Wed Jul 13 2016

[TEST] SP-00487\_3\_M-20L

[MANUFAC] Spectrum Lighting

[LUMCAT] SDxx4LEDXT-20L-xxK-XW-E1-SD4x-MW-SOX

[LUMINAIRE] 4" 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: 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	1485
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.76
Spacing Criterion (90-270)	0.76
Spacing Criterion (Diagonal)	0.86
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	0.33 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	13634	12627	13676
55	11483	11062	11976
65	11289	11244	11457
75	9579	9909	9750
85	8886	9716	9708

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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>	1926.712	1926.712	1926.712	1926.712	1926.712
<b>5</b>	1897.960	1908.976	1881.104	1890.500	1889.224
<b>10</b>	1814.784	1813.564	1788.208	1804.564	1802.580
<b>15</b>	1565.624	1563.484	1568.184	1566.972	1540.824
<b>20</b>	1211.140	1224.660	1274.144	1240.152	1210.060
<b>25</b>	932.716	1014.704	1081.688	1017.408	932.372
<b>30</b>	485.820	624.644	869.756	629.156	472.236
<b>35</b>	203.172	235.688	444.144	241.640	199.712
<b>40</b>	127.152	126.800	149.296	124.856	129.272
<b>45</b>	99.592	93.084	92.232	93.784	99.900
<b>50</b>	76.768	71.992	71.188	73.340	77.880
<b>55</b>	68.040	66.588	65.544	65.300	70.960
<b>60</b>	62.628	58.976	58.012	57.692	60.892
<b>65</b>	49.284	50.944	49.088	52.048	50.016
<b>70</b>	40.312	40.196	38.664	39.768	39.316
<b>75</b>	25.612	28.360	26.492	28.188	26.068
<b>80</b>	17.424	17.804	17.624	17.596	16.132
<b>85</b>	8.000	8.860	8.748	8.100	8.740
<b>90</b>	2.524	2.360	2.636	2.436	2.528

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	608.43	N.A.	41.00
0-30	1054.67	N.A.	71.00
0-40	1260.73	N.A.	84.90
0-60	1396.31	N.A.	94.00
0-80	1475.16	N.A.	99.30
0-90	1485.23	N.A.	100.00
10-90	1307.3	N.A.	88.00
20-40	652.29	N.A.	43.90
20-50	728.31	N.A.	49.00
40-70	185.01	N.A.	12.50
60-80	78.85	N.A.	5.30
70-80	29.42	N.A.	2.00
80-90	10.07	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	1485.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	177.93
10-20	430.50
20-30	446.23
30-40	206.06
40-50	76.01
50-60	59.57
60-70	49.43
70-80	29.42
80-90	10.07
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

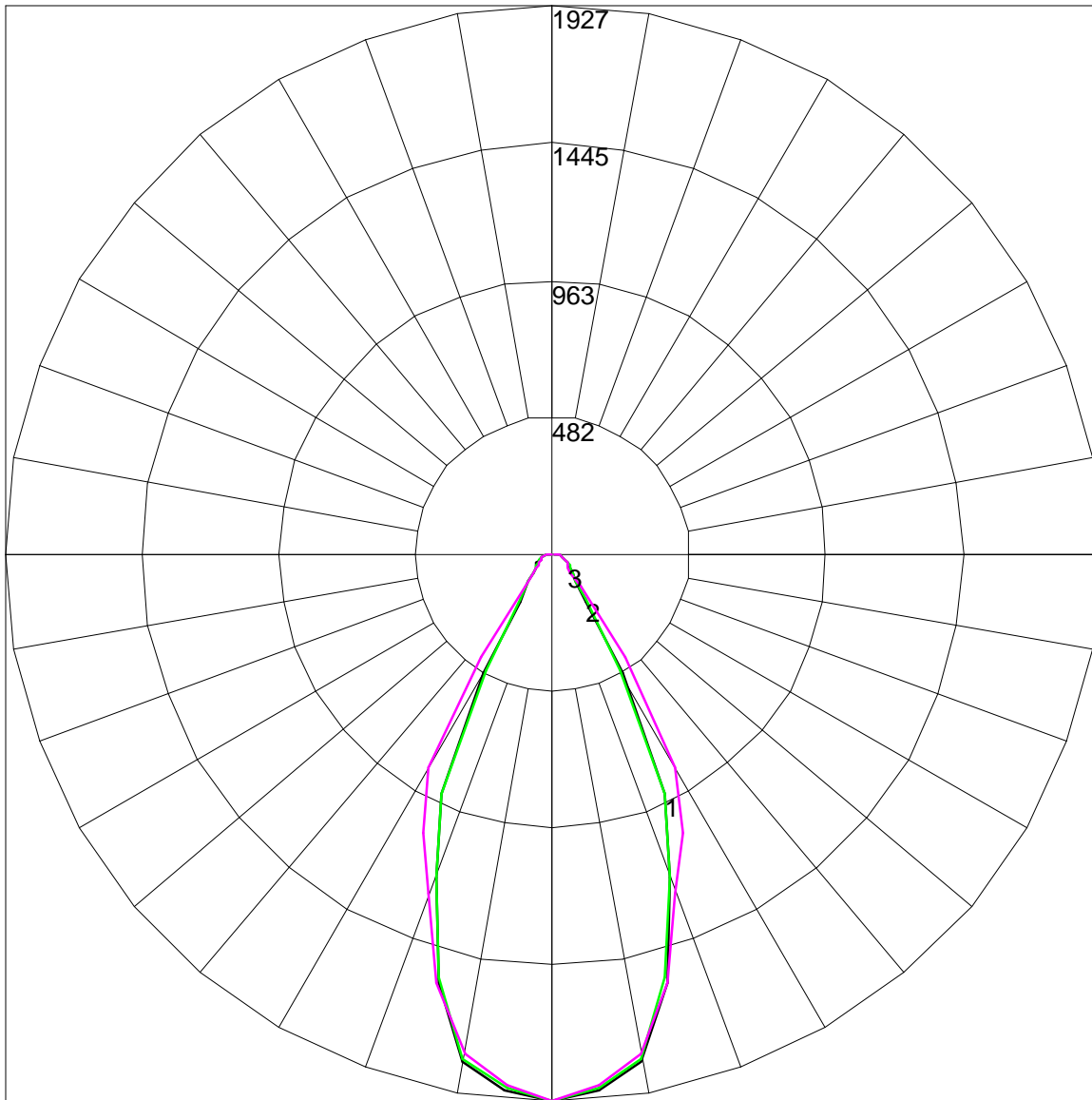
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	113	110	107	104	110	107	105	103	103	101	99	99	98	96	96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78
4	95	87	81	77	94	86	81	76	84	79	76	82	78	75	80	77	74	72
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63
7	82	72	66	62	81	72	66	62	70	65	61	69	64	61	68	64	61	59
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56
9	75	65	59	55	73	64	59	55	63	58	54	62	58	54	62	57	54	53
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50

POLAR GRAPH



Maximum Candela = 1926.712 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)