

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SDXX4XT-10LXXKMDE1-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-10L

[MANUFAC] Spectrum Lighting

[LUMCAT] SDxx4LEDXT-10L-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	662
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	11.1
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

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5291	4952	5305
55	5779	5502	5782
65	5967	5633	5842
75	4896	5157	5163
85	4538	4699	4677

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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>	1230.697	1230.697	1230.697	1230.697	1230.697
<b>5</b>	1133.506	1155.960	1159.137	1141.126	1161.679
<b>10</b>	921.367	929.276	928.886	932.437	931.291
<b>15</b>	666.991	684.733	706.610	686.057	669.621
<b>20</b>	510.682	536.440	578.755	535.008	512.870
<b>25</b>	391.282	426.167	458.441	429.529	398.925
<b>30</b>	155.122	226.293	344.787	229.288	155.983
<b>35</b>	59.147	75.073	176.628	74.637	60.073
<b>40</b>	40.702	41.310	51.056	39.799	42.983
<b>45</b>	38.648	37.938	36.170	36.857	38.749
<b>50</b>	37.178	35.149	34.653	35.045	37.708
<b>55</b>	34.242	32.721	32.602	32.260	34.258
<b>60</b>	31.115	29.961	29.583	30.023	30.772
<b>65</b>	26.049	25.847	24.592	25.999	25.505
<b>70</b>	19.146	19.555	20.064	19.443	18.665
<b>75</b>	13.091	14.490	13.788	14.050	13.805
<b>80</b>	8.471	8.936	9.241	8.805	7.844
<b>85</b>	4.086	4.300	4.231	4.271	4.211
<b>90</b>	1.218	1.226	1.083	1.127	1.393

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	299.84	N.A.	45.30
0-30	485.67	N.A.	73.30
0-40	558.42	N.A.	84.30
0-60	617.64	N.A.	93.20
0-80	657.40	N.A.	99.20
0-90	662.42	N.A.	100.00
10-90	559.54	N.A.	84.50
20-40	258.58	N.A.	39.00
20-50	288.31	N.A.	43.50
40-70	84.16	N.A.	12.70
60-80	39.76	N.A.	6.00
70-80	14.82	N.A.	2.20
80-90	5.02	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	662.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	102.89
10-20	196.96
20-30	185.82
30-40	72.76
40-50	29.73
50-60	29.48
60-70	24.94
70-80	14.82
80-90	5.02
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

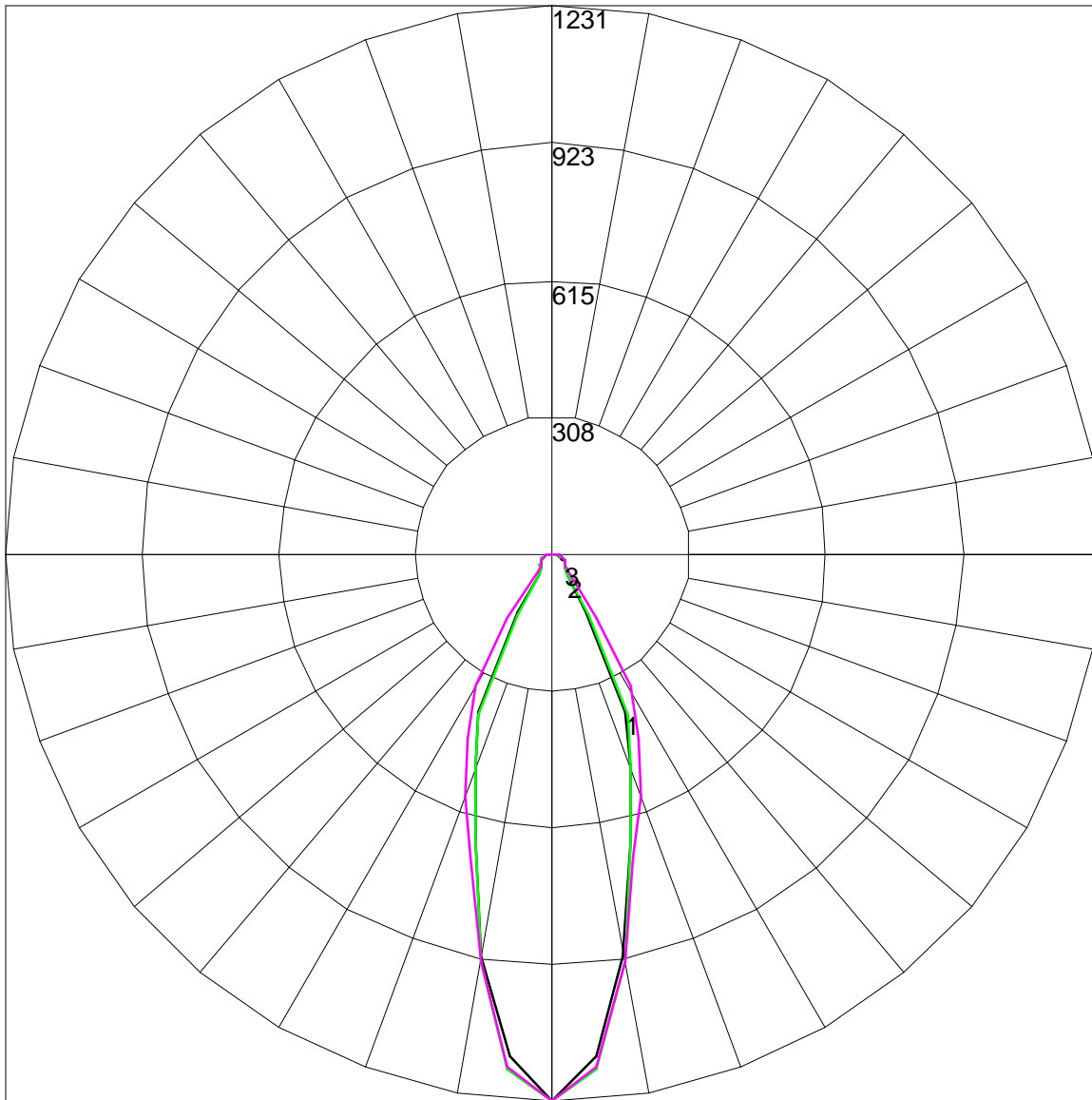
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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	82	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	68	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	61	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	57	53	52

POLAR GRAPH



Maximum Candela = 1230.697 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)