

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SDXX4XT-13LXXKXWE1-SD4XMWSOX.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 2014.1.0 see: www.ltiopics.com/ies

[ISSUE DATE]

[TEST DATE] Wed Sep 30 2015

[UPDATE] Wed Jul 13 2016

[TEST] SP-00487_3_M-13L

[MANUFAC] Spectrum Lighting

[LUMCAT] SDxx4LEDXT-13L-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	965
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	15
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	8862	8207	8890
55	7464	7190	7784
65	7338	7309	7447
75	6227	6441	6337
85	5776	6315	6310

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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>
0	1252.363	1252.363	1252.363	1252.363	1252.363
5	1233.674	1240.834	1222.718	1228.825	1227.996
10	1179.610	1178.817	1162.335	1172.967	1171.677
15	1017.656	1016.265	1019.320	1018.532	1001.536
20	787.241	796.029	828.194	806.099	786.539
25	606.265	659.558	703.097	661.315	606.042
30	315.783	406.019	565.341	408.951	306.953
35	132.062	153.197	288.694	157.066	129.813
40	82.649	82.420	97.042	81.156	84.027
45	64.735	60.505	59.951	60.960	64.935
50	49.899	46.795	46.272	47.671	50.622
55	44.226	43.282	42.604	42.445	46.124
60	40.708	38.334	37.708	37.500	39.580
65	32.035	33.114	31.907	33.831	32.510
70	26.203	26.127	25.132	25.849	25.555
75	16.648	18.434	17.220	18.322	16.944
80	11.326	11.573	11.456	11.437	10.486
85	5.200	5.759	5.686	5.265	5.681
90	1.641	1.534	1.713	1.583	1.643

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	395.48	N.A.	41.00
0-30	685.53	N.A.	71.00
0-40	819.47	N.A.	84.90
0-60	907.60	N.A.	94.00
0-80	958.86	N.A.	99.30
0-90	965.40	N.A.	100.00
10-90	849.74	N.A.	88.00
20-40	423.99	N.A.	43.90
20-50	473.40	N.A.	49.00
40-70	120.26	N.A.	12.50
60-80	51.25	N.A.	5.30
70-80	19.12	N.A.	2.00
80-90	6.55	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	965.40	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	115.66
10-20	279.83
20-30	290.05
30-40	133.94
40-50	49.41
50-60	38.72
60-70	32.13
70-80	19.12
80-90	6.55
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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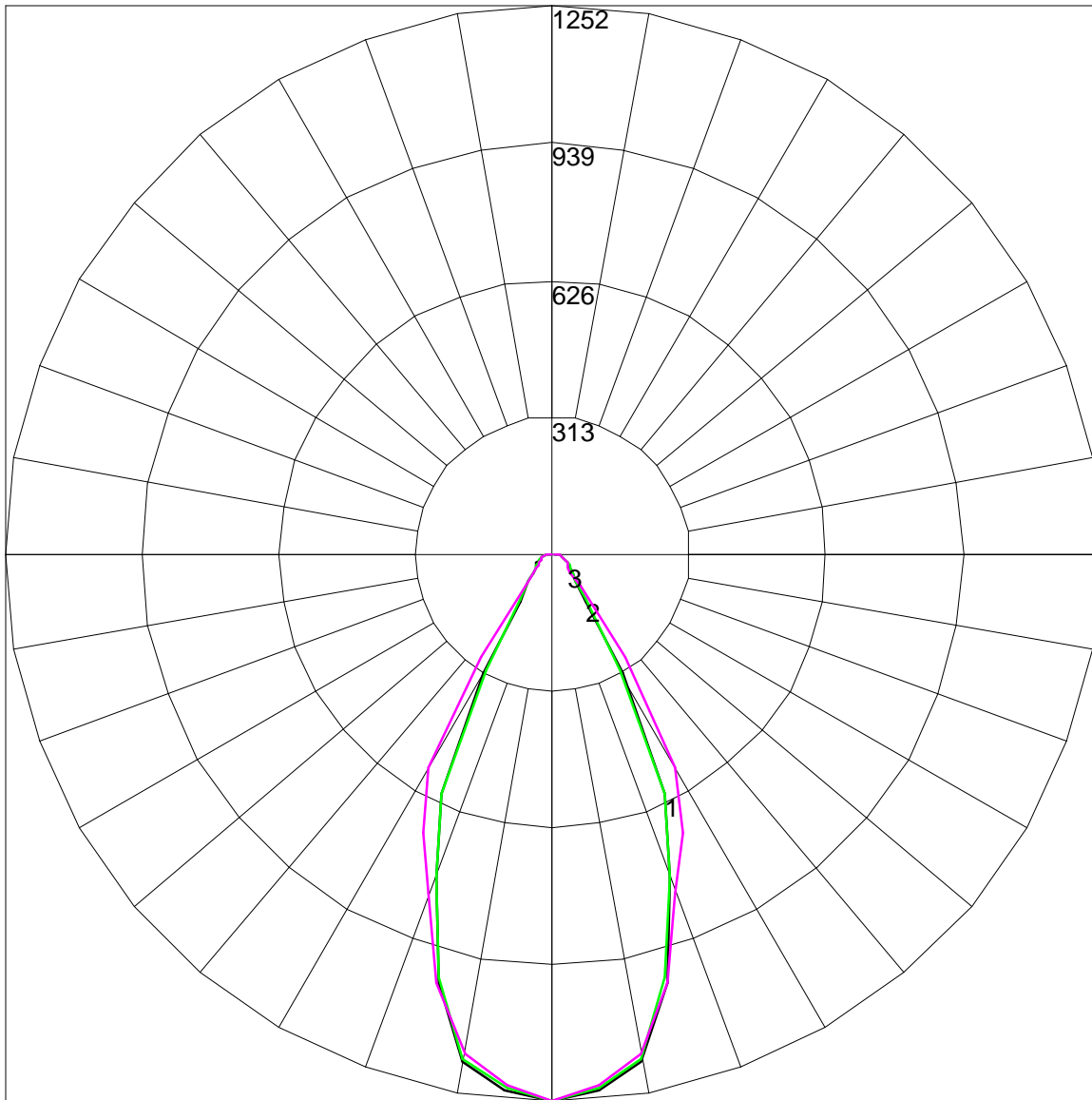
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	96	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	65	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 = 1252.363 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)