

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SDXX4XT-40LXXKNDE1-SD4XMWGLX.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Wed Sep 30 2015

[UPDATE] Wed Jul 13 2016

[TEST] SP-00487_M-40L

[MANUFAC] Spectrum Lighting

[LUMCAT] SDxx4XT-40L-xxK-ND-E1-SD4x-MW-GLX

[LUMINAIRE] 4" Square, Downlight, Narrow Beam

[TRIM] Matte White, regressed clear glass Lens

[LAMP] N/A, Min. 83 CRI

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] For Housings: SDFO4, 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	3209
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	39.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.44
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	8489	9676	8457
55	10118	10300	9724
65	9842	11738	10803
75	11701	11572	11718
85	12470	12239	10168

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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	12549.591	12549.591	12549.591	12549.591	12549.591
5	11084.311	11131.012	11154.358	11084.689	11299.888
10	7808.146	7914.322	7906.937	7911.773	7965.303
15	4393.566	4398.864	4404.361	4391.672	4384.357
20	1975.011	1983.882	2006.674	1975.396	1984.867
25	1187.109	1289.357	1343.904	1282.081	1166.442
30	390.036	690.451	1098.459	674.035	389.304
35	92.854	161.092	537.806	162.778	88.242
40	64.341	73.081	126.057	74.875	64.410
45	62.008	66.020	70.678	64.842	61.777
50	59.721	61.839	66.081	61.885	58.404
55	59.952	58.751	61.030	60.645	57.619
60	51.575	53.430	55.324	53.099	51.652
65	42.966	47.678	51.243	50.242	47.162
70	41.665	43.975	42.912	44.344	41.126
75	31.285	33.464	30.939	33.095	31.331
80	20.282	22.230	22.022	22.938	20.882
85	11.227	10.811	11.019	10.826	9.155
90	3.873	3.349	3.041	3.226	1.840

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2220.21	N.A.	69.20
0-30	2813.42	N.A.	87.70
0-40	3007.33	N.A.	93.70
0-60	3113.76	N.A.	97.00
0-80	3195.94	N.A.	99.60
0-90	3208.6	N.A.	100.00
10-90	2244.07	N.A.	69.90
20-40	787.12	N.A.	24.50
20-50	840.86	N.A.	26.20
40-70	154.43	N.A.	4.80
60-80	82.19	N.A.	2.60
70-80	34.18	N.A.	1.10
80-90	12.66	N.A.	0.40
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	3208.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	964.53
10-20	1255.68
20-30	593.21
30-40	193.90
40-50	53.74
50-60	52.69
60-70	48.00
70-80	34.18
80-90	12.66
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

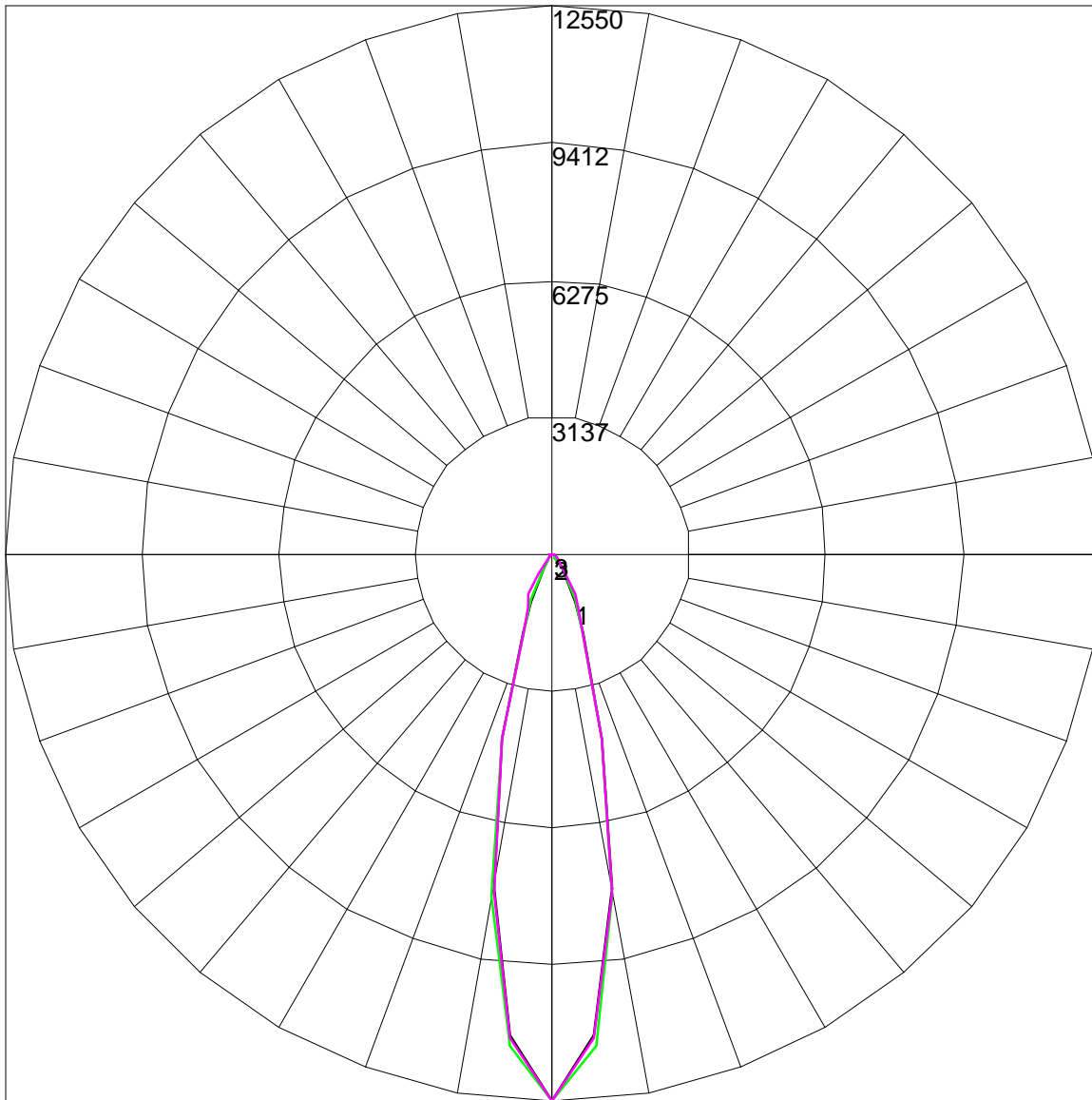
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95
2	110	105	102	99	107	104	101	98	101	98	96	98	96	94	95	93	92	90
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79
6	95	88	83	79	93	87	82	79	85	82	79	84	81	78	83	80	78	76
7	92	84	79	76	90	84	79	76	82	78	76	81	78	75	80	77	75	74
8	89	81	77	73	88	81	76	73	80	76	73	79	75	73	78	75	72	71
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69
10	83	76	71	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67

POLAR GRAPH



Maximum Candela = 12549.591 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)