

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SDXX4XT-40LXXKWDE1-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\_2\_M-40L

[MANUFAC] Spectrum Lighting

[LUMCAT] SDxx4LEDXT-40L-xxK-WD-E1-SD4x-MW-SOX

[LUMINAIRE] 4" Square, Downlight, 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: 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	2756
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	39.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.78
Spacing Criterion (90-270)	0.78
Spacing Criterion (Diagonal)	0.84
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	24015	22231	23895
55	23662	23021	23232
65	24040	23004	24301
75	22305	22429	21378
85	20064	19944	17370

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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>	3545.865	3545.865	3545.865	3545.865	3545.865
<b>5</b>	3310.238	3201.675	3287.754	3264.738	3302.876
<b>10</b>	3226.693	3209.306	3245.843	3256.807	3257.932
<b>15</b>	3137.111	3151.125	3194.722	3169.874	3128.348
<b>20</b>	2401.745	2573.609	2704.363	2562.160	2399.543
<b>25</b>	1597.265	1789.965	2027.556	1829.751	1594.077
<b>30</b>	727.242	1028.936	1494.193	1033.710	712.581
<b>35</b>	256.448	318.433	712.997	326.580	248.633
<b>40</b>	211.080	210.118	246.700	212.489	214.630
<b>45</b>	175.421	160.907	162.385	163.386	174.544
<b>50</b>	162.986	150.019	148.956	151.436	165.796
<b>55</b>	140.202	137.052	136.405	137.029	137.653
<b>60</b>	124.393	123.500	120.613	122.584	130.315
<b>65</b>	104.951	105.582	100.431	106.268	106.091
<b>70</b>	83.876	84.069	83.961	85.162	77.277
<b>75</b>	59.636	60.784	59.968	60.430	57.157
<b>80</b>	35.705	36.421	39.462	37.768	34.188
<b>85</b>	18.064	18.080	17.956	19.373	15.639
<b>90</b>	5.305	4.635	5.313	5.659	6.137

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1165.37	N.A.	42.30
0-30	1988.25	N.A.	72.10
0-40	2308.96	N.A.	83.80
0-60	2568.49	N.A.	93.20
0-80	2734.92	N.A.	99.20
0-90	2756.33	N.A.	100.00
10-90	2442.24	N.A.	88.60
20-40	1143.6	N.A.	41.50
20-50	1279.54	N.A.	46.40
40-70	362.52	N.A.	13.20
60-80	166.43	N.A.	6.00
70-80	63.43	N.A.	2.30
80-90	21.41	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	2756.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	314.08
10-20	851.28
20-30	822.89
30-40	320.71
40-50	135.94
50-60	123.58
60-70	102.99
70-80	63.43
80-90	21.41
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

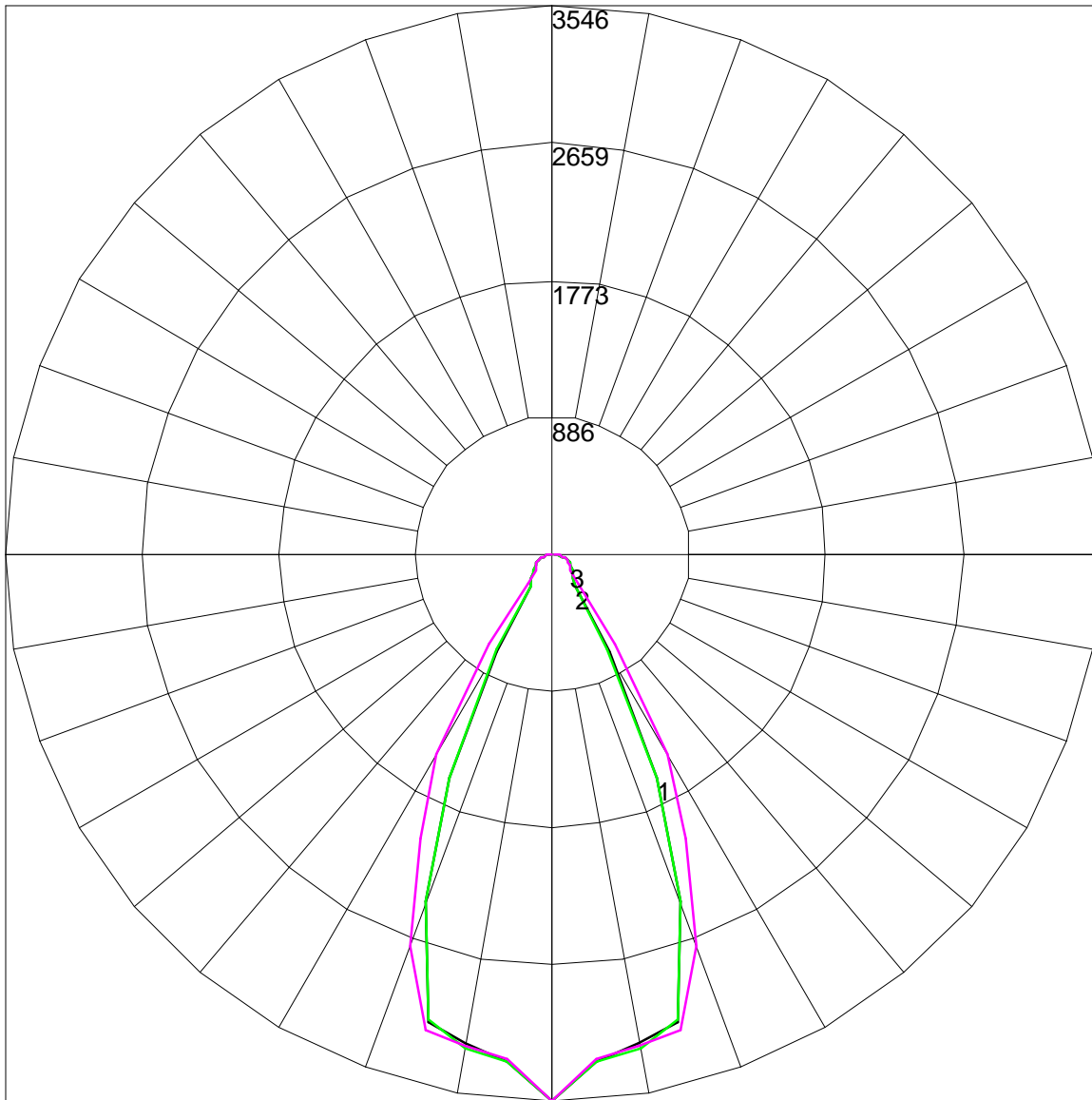
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	106	104	110	107	105	102	103	101	99	99	98	96	96	95	93	91
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	72	67	64	63
7	82	72	66	62	80	72	66	61	70	65	61	69	64	61	68	64	60	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	58	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 = 3545.865 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)