

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SDXX4XT-30LXXKNDE1-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-30L

[MANUFAC] Spectrum Lighting

[LUMCAT] SDxx4XT-30L-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	2500
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	34.6
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	6615	7540	6590
55	7884	8026	7578
65	7669	9146	8418
75	9118	9017	9131
85	9716	9536	7924

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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>	9778.902	9778.902	9778.902	9778.902	9778.902
<b>5</b>	8637.126	8673.516	8691.708	8637.420	8805.108
<b>10</b>	6084.270	6167.004	6161.250	6165.018	6206.730
<b>15</b>	3423.558	3427.686	3431.970	3422.082	3416.382
<b>20</b>	1538.970	1545.882	1563.642	1539.270	1546.650
<b>25</b>	925.020	1004.694	1047.198	999.024	908.916
<b>30</b>	303.924	538.014	855.942	525.222	303.354
<b>35</b>	72.354	125.526	419.070	126.840	68.760
<b>40</b>	50.136	56.946	98.226	58.344	50.190
<b>45</b>	48.318	51.444	55.074	50.526	48.138
<b>50</b>	46.536	48.186	51.492	48.222	45.510
<b>55</b>	46.716	45.780	47.556	47.256	44.898
<b>60</b>	40.188	41.634	43.110	41.376	40.248
<b>65</b>	33.480	37.152	39.930	39.150	36.750
<b>70</b>	32.466	34.266	33.438	34.554	32.046
<b>75</b>	24.378	26.076	24.108	25.788	24.414
<b>80</b>	15.804	17.322	17.160	17.874	16.272
<b>85</b>	8.748	8.424	8.586	8.436	7.134
<b>90</b>	3.018	2.610	2.370	2.514	1.434

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1730.03	N.A.	69.20
0-30	2192.28	N.A.	87.70
0-40	2343.37	N.A.	93.70
0-60	2426.3	N.A.	97.00
0-80	2490.34	N.A.	99.60
0-90	2500.21	N.A.	100.00
10-90	1748.63	N.A.	69.90
20-40	613.34	N.A.	24.50
20-50	655.21	N.A.	26.20
40-70	120.33	N.A.	4.80
60-80	64.04	N.A.	2.60
70-80	26.64	N.A.	1.10
80-90	9.86	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	2500.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	751.58
10-20	978.45
20-30	462.25
30-40	151.09
40-50	41.87
50-60	41.06
60-70	37.40
70-80	26.64
80-90	9.86
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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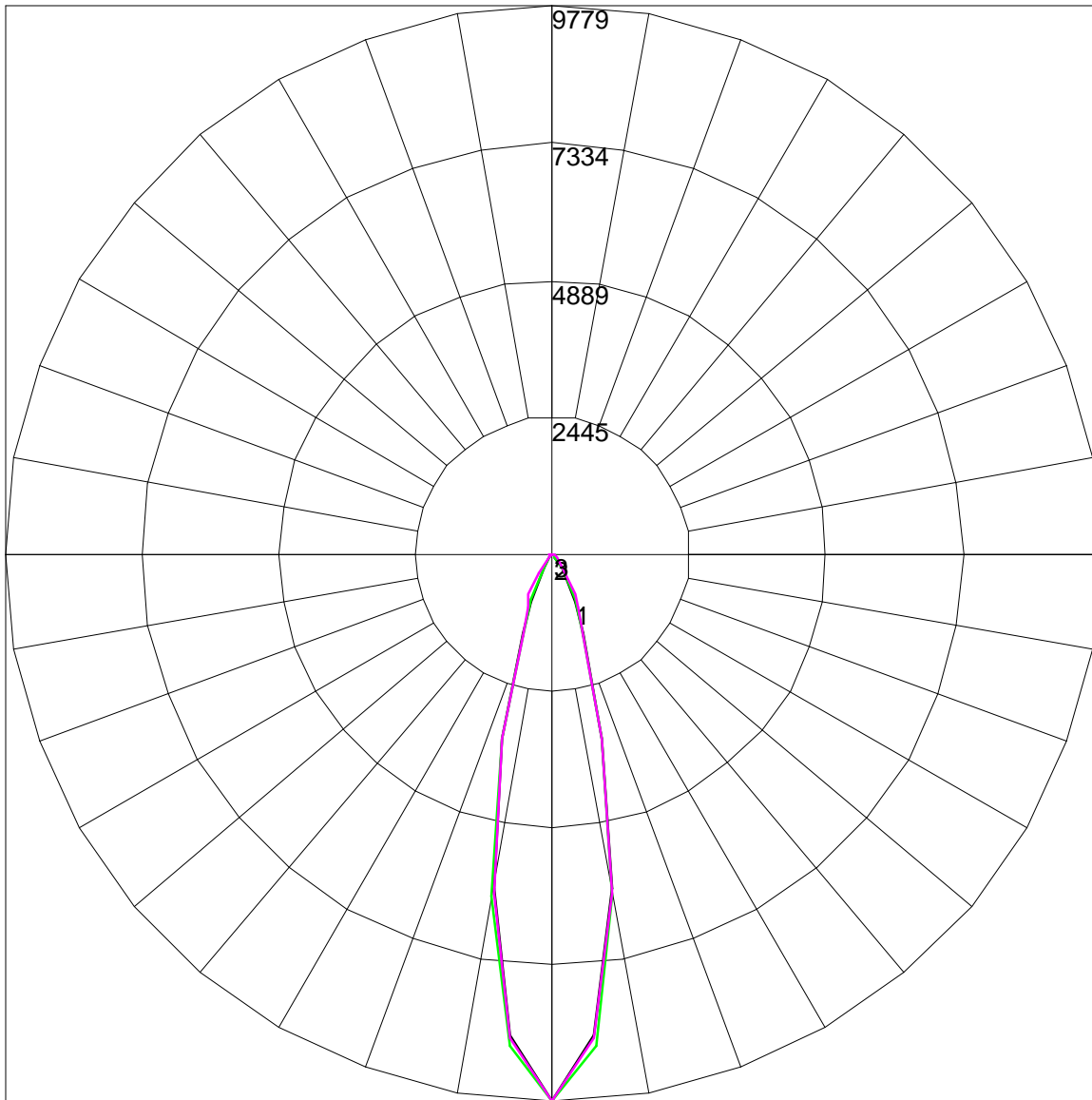
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	112	109	107	112	110	108	106	106	104	103	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	87	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	79	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	84	76	71	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67

POLAR GRAPH



Maximum Candela = 9778.902 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)