

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SGTP6LEDOS-45L35KE1-TP6223OS-SSSO.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TESTLAB] Photopia 2015.1.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)  
 [ISSUE DATE]  
 [TEST DATE] Tue Feb 16 2016  
 [UPDATE] Fri Mar 17 2017  
 [TEST] SP-00438\_4\_M-45L-Gen3  
 [MANUFAC] Spectrum Lighting  
 [LUMCAT] SGTP6LEDOS-45L-35K-E1-TP6223OS-SS-SO  
 [LUMINAIRE] 6" Diam. Tamper Resistant Lensed Downlight  
 [OTHER] Matte White Upper Reflector, Flush Solite Lens  
 [LAMP] N/A  
 [LAMPCAT] N/A  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] Output Multipliers: 40K x 1.0, 30K x 1.0, 27K x 0.946  
 [OTHER] This report updated by Spectrum Lighting, scaled from Gen2-30L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3077
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	41.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.00
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	33774	35287	34774
55	21617	21595	21637
65	13438	13039	13032
75	7774	7476	8351
85	6095	5688	5912

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	2318.630	2318.630	2318.630	2318.630	2318.630	2318.630	2318.630	2318.630	2318.630	2318.630
5	2249.013	2294.867	2286.920	2295.759	2283.206	2295.759	2286.920	2294.867	2249.013	2294.867
10	2382.958	2402.731	2375.741	2368.360	2365.587	2368.360	2375.741	2402.731	2382.958	2402.731
15	2346.934	2345.312	2339.327	2360.899	2319.490	2360.899	2339.327	2345.312	2346.934	2345.312
20	2126.667	2184.799	2197.791	2153.088	2155.959	2153.088	2197.791	2184.799	2126.667	2184.799
25	1859.086	1827.845	1867.001	1847.261	1817.108	1847.261	1867.001	1827.845	1859.086	1827.845
30	1401.617	1423.189	1419.638	1422.412	1414.090	1422.412	1419.638	1423.189	1401.617	1423.189
35	1021.778	1014.593	1023.302	1014.528	1000.303	1014.528	1023.302	1014.593	1021.778	1014.593
40	676.568	677.769	687.629	667.468	664.971	667.468	687.629	677.769	676.568	677.769
45	436.042	456.009	455.587	449.861	448.953	449.861	455.587	456.009	436.042	456.009
50	317.279	316.809	316.663	319.534	320.166	319.534	316.663	316.809	317.279	316.809
55	226.383	224.015	226.155	225.247	226.593	225.247	226.155	224.015	226.383	224.015
60	152.889	155.323	157.090	153.442	158.826	153.442	157.090	155.323	152.889	155.323
65	103.694	103.013	100.613	101.164	100.564	101.164	100.613	103.013	103.694	103.013
70	64.945	62.853	63.971	66.713	61.052	66.713	63.971	62.853	64.945	62.853
75	36.738	39.755	35.327	39.706	39.464	39.706	35.327	39.755	36.738	39.755
80	20.470	21.556	20.258	20.145	21.183	20.145	20.258	21.556	20.470	21.556
85	9.699	8.742	9.051	9.781	9.408	9.781	9.051	8.742	9.699	8.742
90	1.882	1.573	1.833	1.688	1.621	1.688	1.833	1.573	1.882	1.573

Vert. Angles Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	2318.630	2318.630	2318.630	2318.630	2318.630	2318.630	2318.630
5	2286.920	2295.759	2283.206	2295.759	2286.920	2294.867	2249.013
10	2375.741	2368.360	2365.587	2368.360	2375.741	2402.731	2382.958
15	2339.327	2360.899	2319.490	2360.899	2339.327	2345.312	2346.934
20	2197.791	2153.088	2155.959	2153.088	2197.791	2184.799	2126.667
25	1867.001	1847.261	1817.108	1847.261	1867.001	1827.845	1859.086
30	1419.638	1422.412	1414.090	1422.412	1419.638	1423.189	1401.617
35	1023.302	1014.528	1000.303	1014.528	1023.302	1014.593	1021.778
40	687.629	667.468	664.971	667.468	687.629	677.769	676.568
45	455.587	449.861	448.953	449.861	455.587	456.009	436.042
50	316.663	319.534	320.166	319.534	316.663	316.809	317.279
55	226.155	225.247	226.593	225.247	226.155	224.015	226.383
60	157.090	153.442	158.826	153.442	157.090	155.323	152.889
65	100.613	101.164	100.564	101.164	100.613	103.013	103.694
70	63.971	66.713	61.052	66.713	63.971	62.853	64.945
75	35.327	39.706	39.464	39.706	35.327	39.755	36.738
80	20.258	20.145	21.183	20.145	20.258	21.556	20.470
85	9.051	9.781	9.408	9.781	9.051	8.742	9.699
90	1.833	1.688	1.621	1.688	1.833	1.573	1.882

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	874.26	N.A.	28.40
0-30	1708.27	N.A.	55.50
0-40	2348.97	N.A.	76.30
0-60	2919.2	N.A.	94.90
0-80	3066.23	N.A.	99.60
0-90	3077.38	N.A.	100.00
10-90	2855.41	N.A.	92.80
20-40	1474.71	N.A.	47.90
20-50	1838.73	N.A.	59.70
40-70	674.74	N.A.	21.90
60-80	147.03	N.A.	4.80
70-80	42.52	N.A.	1.40
80-90	11.16	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	3077.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	221.97
10-20	652.29
20-30	834.00
30-40	640.70
40-50	364.03
50-60	206.20
60-70	104.51
70-80	42.52
80-90	11.16
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

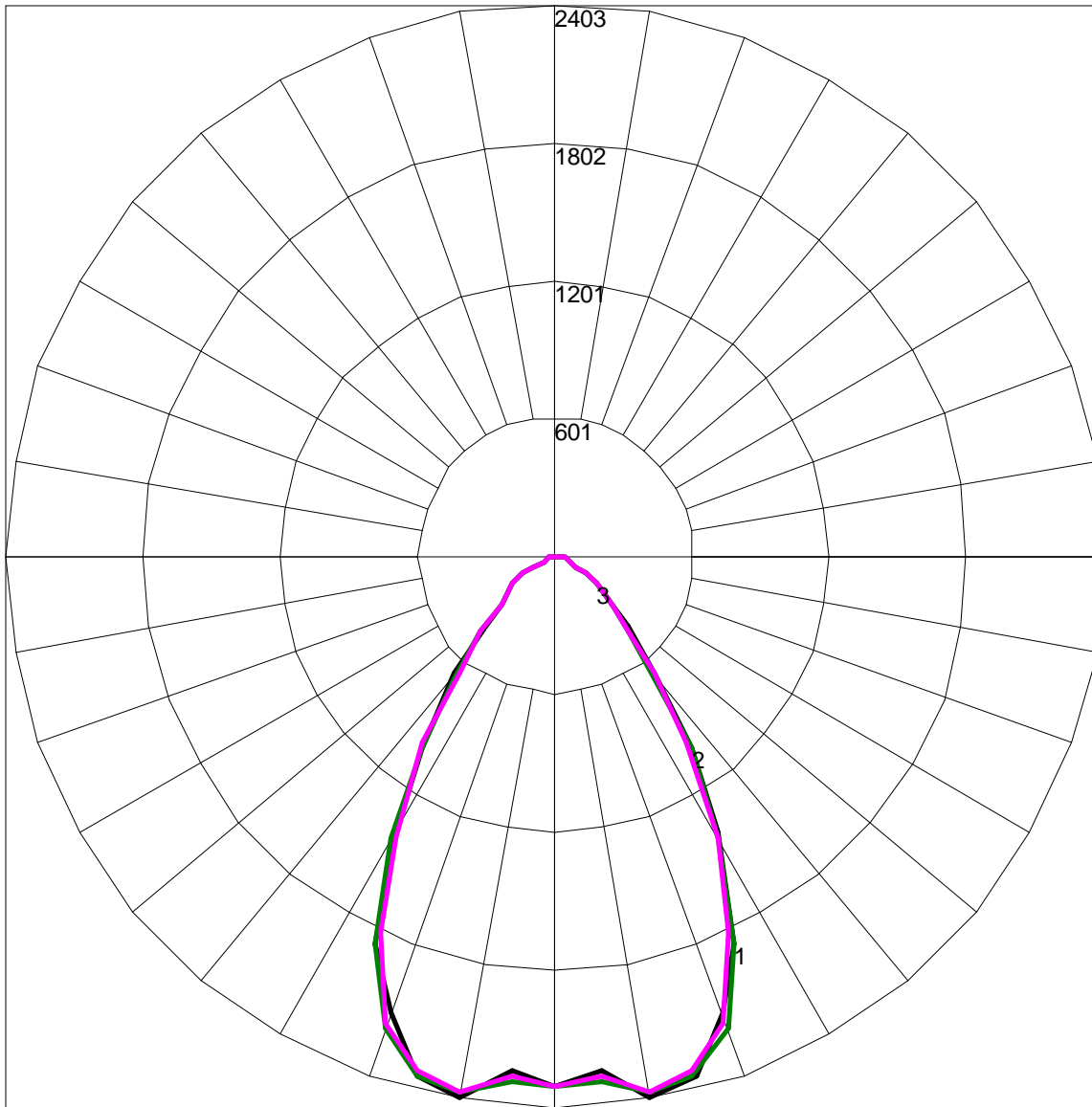
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	99	95	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	66	63	61
6	82	71	64	59	80	71	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	55	76	66	59	54	64	58	54	63	58	54	62	57	53	52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48
9	69	58	51	47	68	57	51	46	56	50	46	55	50	46	54	50	46	44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41

POLAR GRAPH



Maximum Candela = 2402.731 Located At Horizontal Angle = 22.5, Vertical Angle = 10

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (45 - 225)
- # 3 - Vertical Plane Through Horizontal Angles (90 - 270)