

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SGRTP6LEDOS-10L35KE1-TPSGR6-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] Wed Nov 16 2016

[TEST] SP-00438\_4\_M-10L-R-Gen3

[MANUFAC] Spectrum Lighting

[LUMCAT] SGRTP6LEDOS-10L-35K-E1-TPSGR6-SS-SO

[LUMINAIRE] 6" Diam. Tamper Resistent 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] Catalog number designation update: 14W is now called 10L

[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	713
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	10.46
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

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7830	8181	8062
55	5012	5006	5016
65	3115	3023	3021
75	1802	1733	1936
85	1413	1318	1371

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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	537.543	537.543	537.543	537.543	537.543	537.543	537.543	537.543	537.543	537.543
5	521.404	532.034	530.192	532.241	529.331	532.241	530.192	532.034	521.404	532.034
10	552.457	557.041	550.784	549.073	548.430	549.073	550.784	557.041	552.457	557.041
15	544.106	543.729	542.342	547.343	537.743	547.343	542.342	543.729	544.106	543.729
20	493.039	506.517	509.529	499.165	499.831	499.165	509.529	506.517	493.039	506.517
25	431.004	423.762	432.839	428.263	421.272	428.263	432.839	423.762	431.004	423.762
30	324.946	329.948	329.124	329.767	327.838	329.767	329.124	329.948	324.946	329.948
35	236.886	235.220	237.239	235.205	231.907	235.205	237.239	235.220	236.886	235.220
40	156.853	157.132	159.418	154.744	154.165	154.744	159.418	157.132	156.853	157.132
45	101.090	105.720	105.622	104.294	104.084	104.294	105.622	105.720	101.090	105.720
50	73.557	73.448	73.414	74.080	74.226	74.080	73.414	73.448	73.557	73.448
55	52.484	51.935	52.431	52.220	52.533	52.220	52.431	51.935	52.484	51.935
60	35.445	36.010	36.419	35.573	36.822	35.573	36.419	36.010	35.445	36.010
65	24.040	23.882	23.326	23.454	23.314	23.454	23.326	23.882	24.040	23.882
70	15.057	14.572	14.831	15.467	14.154	15.467	14.831	14.572	15.057	14.572
75	8.517	9.217	8.190	9.205	9.149	9.205	8.190	9.217	8.517	9.217
80	4.746	4.997	4.697	4.670	4.911	4.670	4.697	4.997	4.746	4.997
85	2.249	2.027	2.098	2.268	2.181	2.268	2.098	2.027	2.249	2.027
90	0.436	0.365	0.425	0.391	0.376	0.391	0.425	0.365	0.436	0.365

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	537.543	537.543	537.543	537.543	537.543	537.543	537.543
5	530.192	532.241	529.331	532.241	530.192	532.034	521.404
10	550.784	549.073	548.430	549.073	550.784	557.041	552.457
15	542.342	547.343	537.743	547.343	542.342	543.729	544.106
20	509.529	499.165	499.831	499.165	509.529	506.517	493.039
25	432.839	428.263	421.272	428.263	432.839	423.762	431.004
30	329.124	329.767	327.838	329.767	329.124	329.948	324.946
35	237.239	235.205	231.907	235.205	237.239	235.220	236.886
40	159.418	154.744	154.165	154.744	159.418	157.132	156.853
45	105.622	104.294	104.084	104.294	105.622	105.720	101.090
50	73.414	74.080	74.226	74.080	73.414	73.448	73.557
55	52.431	52.220	52.533	52.220	52.431	51.935	52.484
60	36.419	35.573	36.822	35.573	36.419	36.010	35.445
65	23.326	23.454	23.314	23.454	23.326	23.882	24.040
70	14.831	15.467	14.154	15.467	14.831	14.572	15.057
75	8.190	9.205	9.149	9.205	8.190	9.217	8.517
80	4.697	4.670	4.911	4.670	4.697	4.997	4.746
85	2.098	2.268	2.181	2.268	2.098	2.027	2.249
90	0.425	0.391	0.376	0.391	0.425	0.365	0.436

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	202.69	N.A.	28.40
0-30	396.04	N.A.	55.50
0-40	544.58	N.A.	76.30
0-60	676.78	N.A.	94.90
0-80	710.86	N.A.	99.60
0-90	713.45	N.A.	100.00
10-90	661.99	N.A.	92.80
20-40	341.89	N.A.	47.90
20-50	426.29	N.A.	59.80
40-70	156.43	N.A.	21.90
60-80	34.09	N.A.	4.80
70-80	9.86	N.A.	1.40
80-90	2.59	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	713.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	51.46
10-20	151.23
20-30	193.35
30-40	148.54
40-50	84.39
50-60	47.80
60-70	24.23
70-80	9.86
80-90	2.59
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

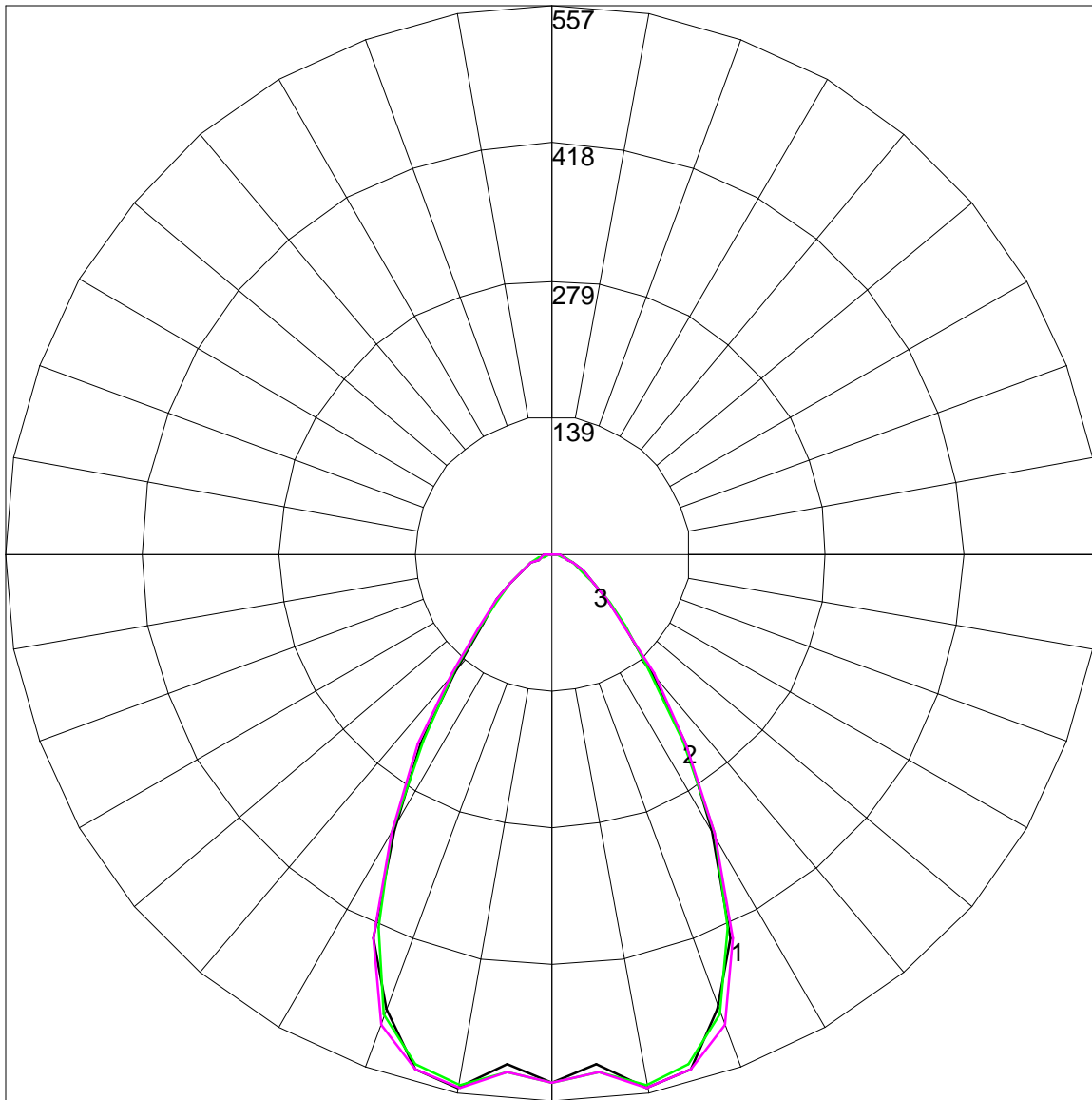
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	86	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	74	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	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	48	43	53	47	43	52	47	43	51	46	43	41

POLAR GRAPH



Maximum Candela = 557.041 Located At Horizontal Angle = 22.5, Vertical Angle = 10

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Vertical Plane Through Horizontal Angles (45 - 225)