

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGTP6LEDOS-30L35KE1-TP6223OS-SSSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 2015.1.0 see: www.ltioptics.com/ies

[ISSUEDATE]

[TESTDATE] Tue Feb 16 2016

[UPDATE] Fri Nov 4 2016

[TEST] SP-00438_4_M-Gen3

[MANUFAC] Spectrum Lighting

[LUMCAT] SGTP6LEDOS-30L-35K-E1-TP6223OS-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: 35W is now called 30L

[OTHER] This report updated by Spectrum Lighting, scaled from Gen2

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2083
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	27.6
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	22856	23880	23532
55	14629	14614	14642
65	9094	8824	8820
75	5261	5059	5651
85	4125	3849	4001

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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	1569.097	1569.097	1569.097	1569.097	1569.097	1569.097	1569.097	1569.097	1569.097	1569.097
5	1521.985	1553.016	1547.638	1553.620	1545.124	1553.620	1547.638	1553.016	1521.985	1553.016
10	1612.630	1626.011	1607.746	1602.751	1600.875	1602.751	1607.746	1626.011	1612.630	1626.011
15	1588.252	1587.154	1583.104	1597.702	1569.679	1597.702	1583.104	1587.154	1588.252	1587.154
20	1439.189	1478.529	1487.321	1457.070	1459.012	1457.070	1487.321	1478.529	1439.189	1478.529
25	1258.108	1236.966	1263.465	1250.105	1229.700	1250.105	1263.465	1236.966	1258.108	1236.966
30	948.523	963.122	960.718	962.595	956.964	962.595	960.718	963.122	948.523	963.122
35	691.473	686.610	692.504	686.566	676.939	686.566	692.504	686.610	691.473	686.610
40	457.857	458.669	465.343	451.699	450.009	451.699	465.343	458.669	457.857	458.669
45	295.085	308.597	308.311	304.437	303.822	304.437	308.311	308.597	295.085	308.597
50	214.714	214.395	214.297	216.240	216.667	216.240	214.297	214.395	214.714	214.395
55	153.201	151.599	153.047	152.432	153.343	152.432	153.047	151.599	153.201	151.599
60	103.465	105.113	106.308	103.839	107.483	103.839	106.308	105.113	103.465	105.113
65	70.173	69.713	68.088	68.461	68.055	68.461	68.088	69.713	70.173	69.713
70	43.950	42.535	43.292	45.147	41.316	45.147	43.292	42.535	43.950	42.535
75	24.862	26.903	23.907	26.871	26.706	26.871	23.907	26.903	24.862	26.903
80	13.853	14.588	13.709	13.633	14.335	13.633	13.709	14.588	13.853	14.588
85	6.564	5.916	6.125	6.619	6.367	6.619	6.125	5.916	6.564	5.916
90	1.273	1.064	1.241	1.142	1.097	1.142	1.241	1.064	1.273	1.064

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	1569.097	1569.097	1569.097	1569.097	1569.097	1569.097	1569.097
5	1547.638	1553.620	1545.124	1553.620	1547.638	1553.016	1521.985
10	1607.746	1602.751	1600.875	1602.751	1607.746	1626.011	1612.630
15	1583.104	1597.702	1569.679	1597.702	1583.104	1587.154	1588.252
20	1487.321	1457.070	1459.012	1457.070	1487.321	1478.529	1439.189
25	1263.465	1250.105	1229.700	1250.105	1263.465	1236.966	1258.108
30	960.718	962.595	956.964	962.595	960.718	963.122	948.523
35	692.504	686.566	676.939	686.566	692.504	686.610	691.473
40	465.343	451.699	450.009	451.699	465.343	458.669	457.857
45	308.311	304.437	303.822	304.437	308.311	308.597	295.085
50	214.297	216.240	216.667	216.240	214.297	214.395	214.714
55	153.047	152.432	153.343	152.432	153.047	151.599	153.201
60	106.308	103.839	107.483	103.839	106.308	105.113	103.465
65	68.088	68.461	68.055	68.461	68.088	69.713	70.173
70	43.292	45.147	41.316	45.147	43.292	42.535	43.950
75	23.907	26.871	26.706	26.871	23.907	26.903	24.862
80	13.709	13.633	14.335	13.633	13.709	14.588	13.853
85	6.125	6.619	6.367	6.619	6.125	5.916	6.564
90	1.241	1.142	1.097	1.142	1.241	1.064	1.273

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	591.64	N.A.	28.40
0-30	1156.04	N.A.	55.50
0-40	1589.63	N.A.	76.30
0-60	1975.52	N.A.	94.90
0-80	2075.02	N.A.	99.60
0-90	2082.57	N.A.	100.00
10-90	1932.36	N.A.	92.80
20-40	997.98	N.A.	47.90
20-50	1244.33	N.A.	59.70
40-70	456.62	N.A.	21.90
60-80	99.50	N.A.	4.80
70-80	28.77	N.A.	1.40
80-90	7.55	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	2082.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

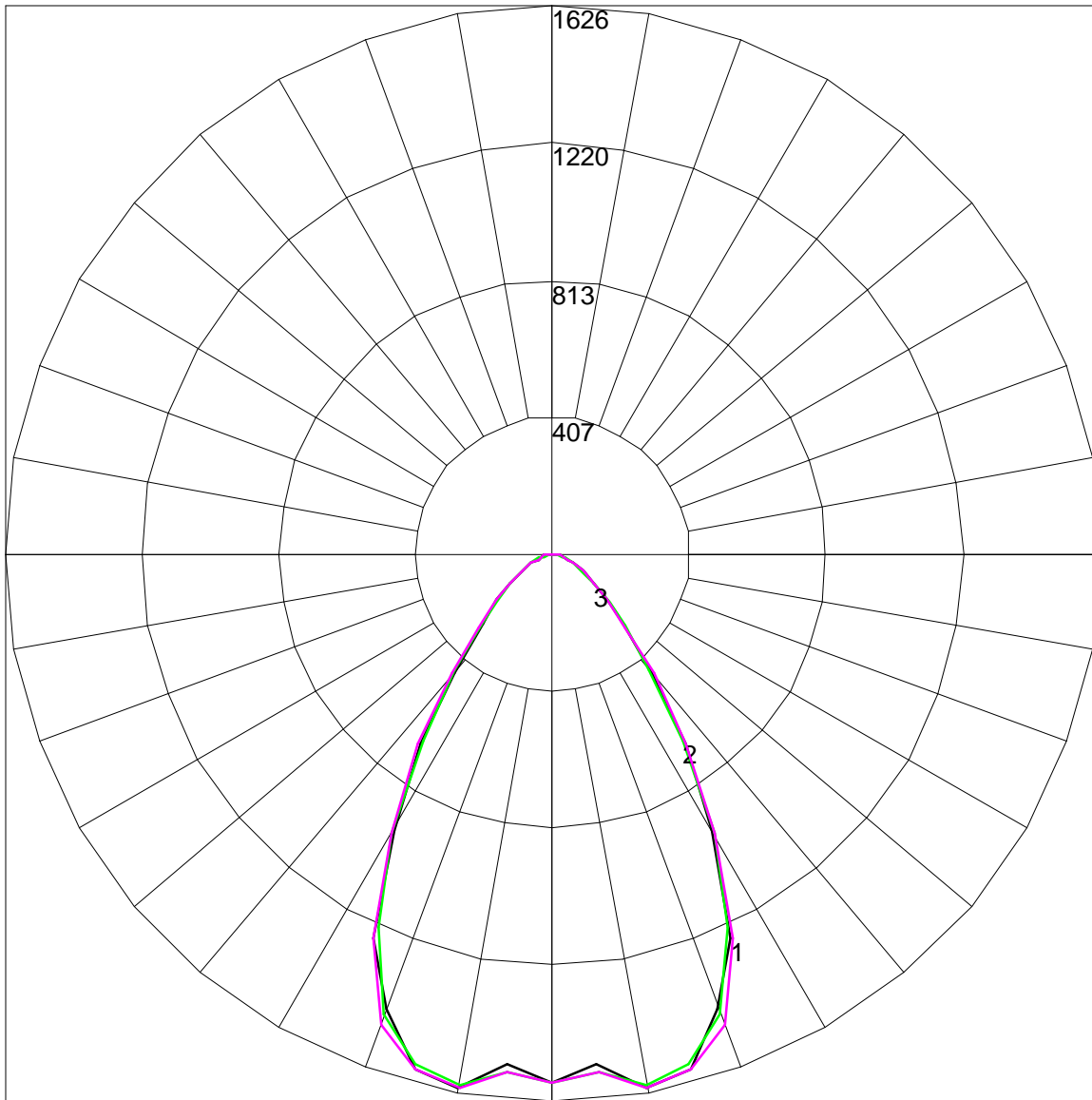
Zone	Lumens
0-10	150.21
10-20	441.43
20-30	564.40
30-40	433.59
40-50	246.35
50-60	139.54
60-70	70.73
70-80	28.77
80-90	7.55
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	99	91	85	80	96	89	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	67	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	54	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 = 1626.011 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)