

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGTP6LEDOS-15L35KE1-TP6223OS-SSSO.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUE DATE]

[TEST DATE] Tue Feb 16 2016

[UPDATE] Tue Apr 25 2018

[TEST] SP-00438_4_M-15L-Gen3

[MANUFAC] Spectrum Lighting

[LUMCAT] SGTP6LEDOS-15L-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	1063
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	13.24
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	11665	12187	12010
55	7466	7458	7473
65	4641	4503	4501
75	2685	2582	2884
85	2105	1964	2042

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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	800.795	800.795	800.795	800.795	800.795	800.795	800.795	800.795	800.795	800.795
5	776.751	792.588	789.843	792.896	788.560	792.896	789.843	792.588	776.751	792.588
10	823.012	829.841	820.519	817.970	817.013	817.970	820.519	829.841	823.012	829.841
15	810.571	810.010	807.943	815.394	801.092	815.394	807.943	810.010	810.571	810.010
20	734.496	754.573	759.060	743.621	744.613	743.621	759.060	754.573	734.496	754.573
25	642.080	631.290	644.814	637.996	627.582	637.996	644.814	631.290	642.080	631.290
30	484.082	491.533	490.306	491.264	488.390	491.264	490.306	491.533	484.082	491.533
35	352.896	350.414	353.422	350.392	345.479	350.392	353.422	350.414	352.896	350.414
40	233.669	234.084	237.489	230.526	229.664	230.526	237.489	234.084	233.669	234.084
45	150.598	157.494	157.348	155.370	155.057	155.370	157.348	157.494	150.598	157.494
50	109.580	109.417	109.367	110.359	110.577	110.359	109.367	109.417	109.580	109.417
55	78.187	77.369	78.108	77.794	78.259	77.794	78.108	77.369	78.187	77.369
60	52.804	53.645	54.255	52.995	54.854	52.995	54.255	53.645	52.804	53.645
65	35.813	35.578	34.749	34.939	34.732	34.939	34.749	35.578	35.813	35.578
70	22.430	21.708	22.094	23.041	21.086	23.041	22.094	21.708	22.430	21.708
75	12.688	13.730	12.201	13.713	13.630	13.713	12.201	13.730	12.688	13.730
80	7.070	7.445	6.997	6.958	7.316	6.958	6.997	7.445	7.070	7.445
85	3.350	3.019	3.126	3.378	3.249	3.378	3.126	3.019	3.350	3.019
90	0.650	0.543	0.633	0.583	0.560	0.583	0.633	0.543	0.650	0.543

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	800.795	800.795	800.795	800.795	800.795	800.795	800.795
5	789.843	792.896	788.560	792.896	789.843	792.588	776.751
10	820.519	817.970	817.013	817.970	820.519	829.841	823.012
15	807.943	815.394	801.092	815.394	807.943	810.010	810.571
20	759.060	743.621	744.613	743.621	759.060	754.573	734.496
25	644.814	637.996	627.582	637.996	644.814	631.290	642.080
30	490.306	491.264	488.390	491.264	490.306	491.533	484.082
35	353.422	350.392	345.479	350.392	353.422	350.414	352.896
40	237.489	230.526	229.664	230.526	237.489	234.084	233.669
45	157.348	155.370	155.057	155.370	157.348	157.494	150.598
50	109.367	110.359	110.577	110.359	109.367	109.417	109.580
55	78.108	77.794	78.259	77.794	78.108	77.369	78.187
60	54.255	52.995	54.854	52.995	54.255	53.645	52.804
65	34.749	34.939	34.732	34.939	34.749	35.578	35.813
70	22.094	23.041	21.086	23.041	22.094	21.708	22.430
75	12.201	13.713	13.630	13.713	12.201	13.730	12.688
80	6.997	6.958	7.316	6.958	6.997	7.445	7.070
85	3.126	3.378	3.249	3.378	3.126	3.019	3.350
90	0.633	0.583	0.560	0.583	0.633	0.543	0.650

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	301.95	N.A.	28.40
0-30	589.99	N.A.	55.50
0-40	811.27	N.A.	76.30
0-60	1008.21	N.A.	94.90
0-80	1059.00	N.A.	99.60
0-90	1062.85	N.A.	100.00
10-90	986.19	N.A.	92.80
20-40	509.33	N.A.	47.90
20-50	635.05	N.A.	59.70
40-70	233.04	N.A.	21.90
60-80	50.78	N.A.	4.80
70-80	14.69	N.A.	1.40
80-90	3.85	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	1062.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	76.66
10-20	225.29
20-30	288.04
30-40	221.28
40-50	125.73
50-60	71.22
60-70	36.10
70-80	14.69
80-90	3.85
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

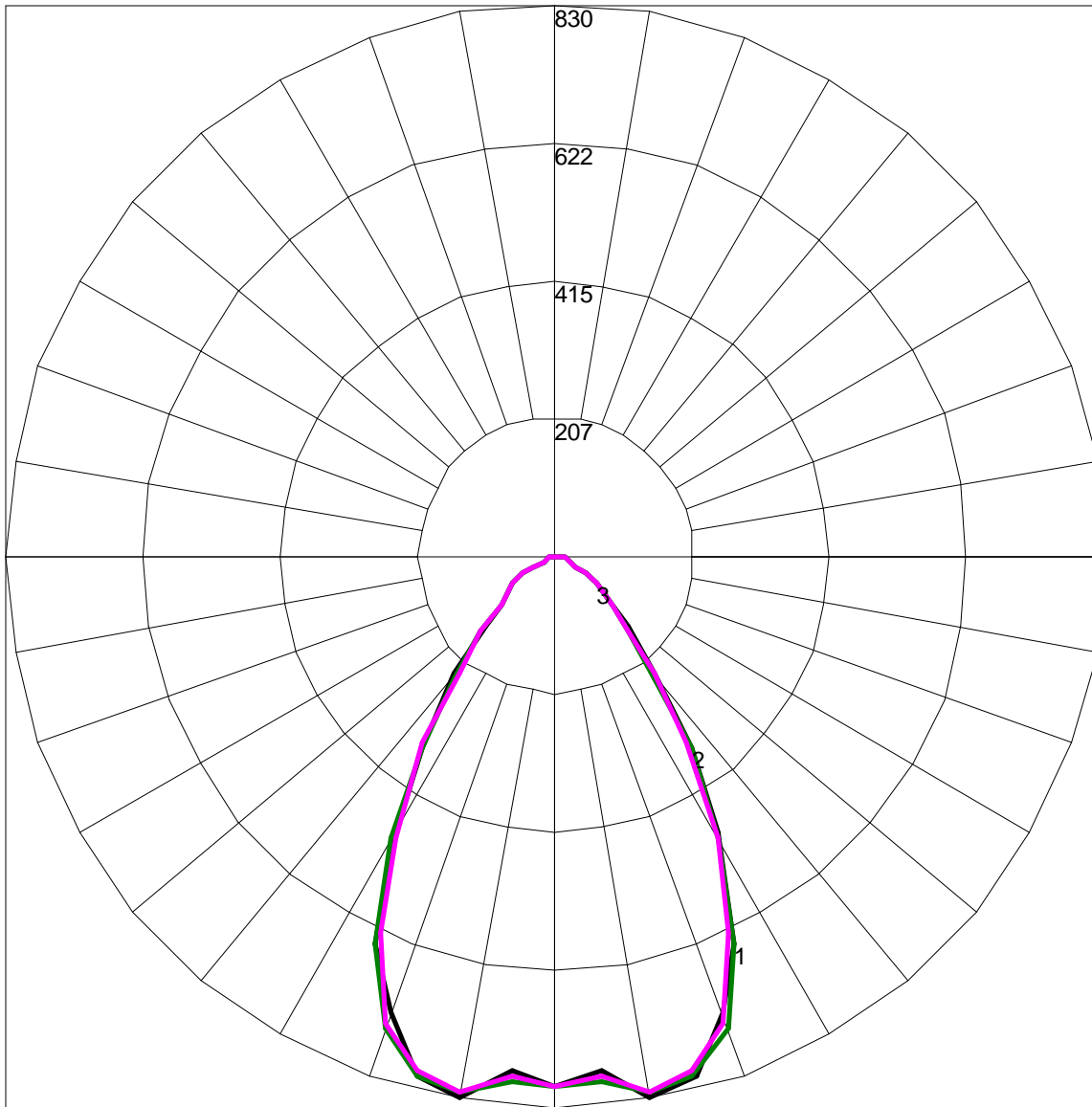
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	99	91	85	80	97	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 = 829.841 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)