

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGTP6LEDOS-20L35KE1-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-20L-Gen3

[MANUFAC] Spectrum Lighting

[LUMCAT] SGTP6LEDOS-20L-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: 25W is now called 20L

[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	1515
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	20.24
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

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16627	17372	17119
55	10642	10631	10652
65	6616	6419	6416
75	3827	3680	4111
85	3001	2800	2911

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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	1141.491	1141.491	1141.491	1141.491	1141.491	1141.491	1141.491	1141.491	1141.491	1141.491
5	1107.218	1129.793	1125.880	1130.232	1124.052	1130.232	1125.880	1129.793	1107.218	1129.793
10	1173.161	1182.896	1169.608	1165.974	1164.609	1165.974	1169.608	1182.896	1173.161	1182.896
15	1155.426	1154.627	1151.681	1162.301	1141.915	1162.301	1151.681	1154.627	1155.426	1154.627
20	1046.985	1075.605	1082.001	1059.993	1061.407	1059.993	1082.001	1075.605	1046.985	1075.605
25	915.252	899.872	919.149	909.430	894.586	909.430	919.149	899.872	915.252	899.872
30	690.034	700.654	698.906	700.272	696.175	700.272	698.906	700.654	690.034	700.654
35	503.034	499.497	503.785	499.465	492.462	499.465	503.785	499.497	503.034	499.497
40	333.083	333.674	338.529	328.603	327.374	328.603	338.529	333.674	333.083	333.674
45	214.669	224.499	224.291	221.472	221.025	221.472	224.291	224.499	214.669	224.499
50	156.201	155.969	155.897	157.311	157.622	157.311	155.897	155.969	156.201	155.969
55	111.451	110.285	111.339	110.892	111.555	110.892	111.339	110.285	111.451	110.285
60	75.269	76.468	77.337	75.541	78.192	75.541	77.337	76.468	75.269	76.468
65	51.050	50.715	49.533	49.804	49.509	49.804	49.533	50.715	51.050	50.715
70	31.973	30.943	31.494	32.844	30.057	32.844	31.494	30.943	31.973	30.943
75	18.087	19.572	17.392	19.548	19.428	19.548	17.392	19.572	18.087	19.572
80	10.078	10.612	9.973	9.918	10.429	9.918	9.973	10.612	10.078	10.612
85	4.775	4.304	4.456	4.815	4.632	4.815	4.456	4.304	4.775	4.304
90	0.926	0.774	0.902	0.831	0.798	0.831	0.902	0.774	0.926	0.774

Vert. 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	1141.491	1141.491	1141.491	1141.491	1141.491	1141.491	1141.491
5	1125.880	1130.232	1124.052	1130.232	1125.880	1129.793	1107.218
10	1169.608	1165.974	1164.609	1165.974	1169.608	1182.896	1173.161
15	1151.681	1162.301	1141.915	1162.301	1151.681	1154.627	1155.426
20	1082.001	1059.993	1061.407	1059.993	1082.001	1075.605	1046.985
25	919.149	909.430	894.586	909.430	919.149	899.872	915.252
30	698.906	700.272	696.175	700.272	698.906	700.654	690.034
35	503.785	499.465	492.462	499.465	503.785	499.497	503.034
40	338.529	328.603	327.374	328.603	338.529	333.674	333.083
45	224.291	221.472	221.025	221.472	224.291	224.499	214.669
50	155.897	157.311	157.622	157.311	155.897	155.969	156.201
55	111.339	110.892	111.555	110.892	111.339	110.285	111.451
60	77.337	75.541	78.192	75.541	77.337	76.468	75.269
65	49.533	49.804	49.509	49.804	49.533	50.715	51.050
70	31.494	32.844	30.057	32.844	31.494	30.943	31.973
75	17.392	19.548	19.428	19.548	17.392	19.572	18.087
80	9.973	9.918	10.429	9.918	9.973	10.612	10.078
85	4.456	4.815	4.632	4.815	4.456	4.304	4.775
90	0.902	0.831	0.798	0.831	0.902	0.774	0.926

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	430.41	N.A.	28.40
0-30	841.00	N.A.	55.50
0-40	1156.43	N.A.	76.30
0-60	1437.16	N.A.	94.90
0-80	1509.54	N.A.	99.60
0-90	1515.04	N.A.	100.00
10-90	1405.76	N.A.	92.80
20-40	726.02	N.A.	47.90
20-50	905.23	N.A.	59.70
40-70	332.18	N.A.	21.90
60-80	72.39	N.A.	4.80
70-80	20.93	N.A.	1.40
80-90	5.49	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	1515.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	109.28
10-20	321.13
20-30	410.59
30-40	315.43
40-50	179.21
50-60	101.51
60-70	51.45
70-80	20.93
80-90	5.49
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

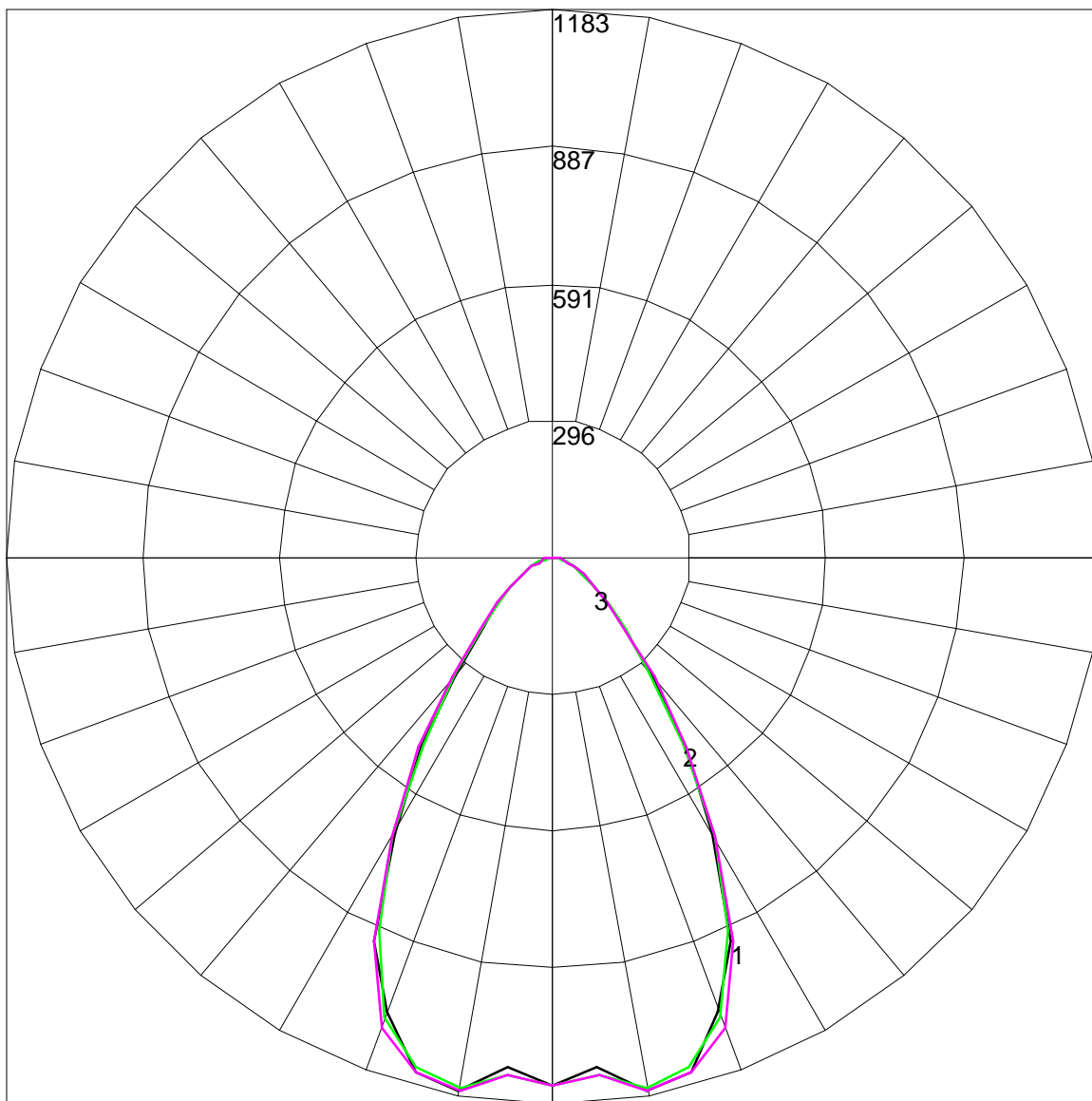
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1182.896 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)