

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP6ES-15L35KDX-AR6ES-SGXF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 2017.2.0 see: www.ltioptics.com/ies

[ISSUEDATE]

[TESTDATE] Mon 9/25/2017

[UPDATE] Tue 9/26/2017

[TEST] SP-00562_1_M-15L

[MANUFAC] Spectrum Lighting

[LUMCAT] SP6ES-15L-35K-DX / AR6ES-SG-xF

[LUMINAIRE] Nom. 6" Aperture, LED Downlight

[OTHER] Semi-Diffuse clear anodized, open aperture

[OTHER] Any flange finish

[OTHER] 52.4 Deg. Beam Angle

[LAMP] N/A

[LAMPCAT] N/A, 3500K CCT

[OTHER] Fully regressed lensed, light emitting surface

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Output Multipliers: 4000K X 1.03, 3000K X 0.985

[OTHER] Scaled from 20L Report

[OTHER] This report prepared by Spectrum Lighting, Preliminary

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1238
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.80
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	2687	2694	2626
55	569	570	559
65	352	368	391
75	214	270	263
85	160	132	160

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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	1698.083	1698.082	1698.082	1698.082	1698.082	1698.082	1698.082	1698.082	1698.082	1698.082
5	1671.787	1679.618	1691.483	1658.895	1653.773	1658.895	1691.483	1679.618	1671.787	1679.618
10	1548.615	1581.668	1580.175	1573.770	1575.743	1573.770	1580.175	1581.668	1548.615	1581.668
15	1440.675	1444.598	1433.017	1431.435	1435.095	1431.435	1433.017	1444.598	1440.675	1444.598
20	1211.888	1220.505	1218.682	1219.290	1228.493	1219.290	1218.682	1220.505	1211.888	1220.505
25	926.055	920.332	924.202	921.247	930.008	921.247	924.202	920.332	926.055	920.332
30	601.590	602.685	600.435	601.732	602.985	601.732	600.435	602.685	601.590	602.685
35	330.975	322.560	326.408	329.048	334.192	329.048	326.408	322.560	330.975	322.560
40	141.390	142.935	143.730	141.847	141.248	141.847	143.730	142.935	141.390	142.935
45	34.695	32.888	34.785	33.803	33.907	33.803	34.785	32.888	34.695	32.888
50	9.158	8.535	8.190	8.828	8.662	8.828	8.190	8.535	9.158	8.535
55	5.955	5.580	5.970	5.730	5.857	5.730	5.970	5.580	5.955	5.580
60	4.553	3.795	4.185	4.178	4.598	4.178	4.185	3.795	4.553	3.795
65	2.715	2.700	2.842	2.842	3.015	2.842	2.842	2.700	2.715	2.700
70	2.145	2.100	1.853	1.988	1.732	1.988	1.853	2.100	2.145	2.100
75	1.012	1.252	1.275	1.192	1.245	1.192	1.275	1.252	1.012	1.252
80	0.532	0.540	0.682	0.765	0.675	0.765	0.682	0.540	0.532	0.540
85	0.255	0.195	0.210	0.195	0.255	0.195	0.210	0.195	0.255	0.195
90	0.128	0.075	0.037	0.022	0.022	0.022	0.037	0.075	0.128	0.075

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	1698.082	1698.082	1698.082	1698.082	1698.082	1698.082	1698.082
5	1691.483	1658.895	1653.773	1658.895	1691.483	1679.618	1671.787
10	1580.175	1573.770	1575.743	1573.770	1580.175	1581.668	1548.615
15	1433.017	1431.435	1435.095	1431.435	1433.017	1444.598	1440.675
20	1218.682	1219.290	1228.493	1219.290	1218.682	1220.505	1211.888
25	924.202	921.247	930.008	921.247	924.202	920.332	926.055
30	600.435	601.732	602.985	601.732	600.435	602.685	601.590
35	326.408	329.048	334.192	329.048	326.408	322.560	330.975
40	143.730	141.847	141.248	141.847	143.730	142.935	141.390
45	34.785	33.803	33.907	33.803	34.785	32.888	34.695
50	8.190	8.828	8.662	8.828	8.190	8.535	9.158
55	5.970	5.730	5.857	5.730	5.970	5.580	5.955
60	4.185	4.178	4.598	4.178	4.185	3.795	4.553
65	2.842	2.842	3.015	2.842	2.842	2.700	2.715
70	1.853	1.988	1.732	1.988	1.853	2.100	2.145
75	1.275	1.192	1.245	1.192	1.275	1.252	1.012
80	0.682	0.765	0.675	0.765	0.682	0.540	0.532
85	0.210	0.195	0.255	0.195	0.210	0.195	0.255
90	0.037	0.022	0.022	0.022	0.037	0.075	0.128

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	554.03	N.A.	44.70
0-30	971.82	N.A.	78.50
0-40	1187.12	N.A.	95.90
0-60	1233.82	N.A.	99.60
0-80	1238.06	N.A.	100.00
0-90	1238.37	N.A.	100.00
10-90	1081.89	N.A.	87.40
20-40	633.09	N.A.	51.10
20-50	674.36	N.A.	54.50
40-70	49.61	N.A.	4.00
60-80	4.24	N.A.	0.30
70-80	1.33	N.A.	0.10
80-90	0.31	N.A.	0.00
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	1238.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	156.48
10-20	397.55
20-30	417.79
30-40	215.30
40-50	41.26
50-60	5.44
60-70	2.91
70-80	1.33
80-90	0.31
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

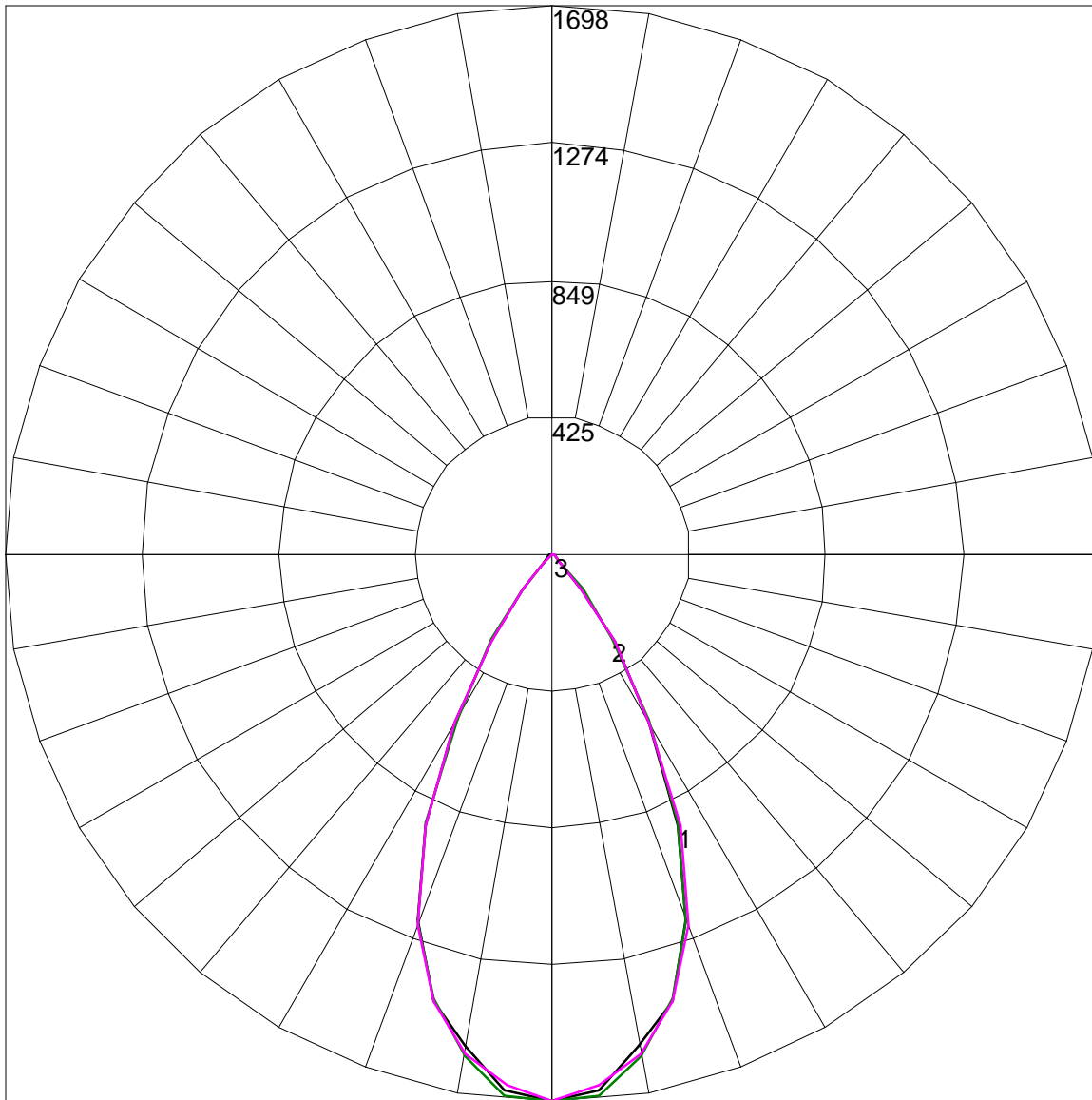
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83
4	99	92	86	82	97	91	86	82	88	84	81	86	83	80	85	82	79	78
5	94	86	81	77	93	85	80	76	84	79	76	82	78	75	80	77	74	73
6	90	81	76	72	88	81	75	72	79	75	71	78	74	71	77	73	70	69
7	86	77	71	67	84	76	71	67	75	70	67	74	70	66	73	69	66	65
8	82	73	67	63	81	72	67	63	71	66	63	70	66	63	69	65	63	61
9	78	69	64	60	77	69	63	60	68	63	60	67	63	59	66	62	59	58
10	75	66	60	57	74	65	60	57	65	60	56	64	59	56	63	59	56	55

POLAR GRAPH



Maximum Candela = 1698.083 Located At Horizontal Angle = 0, Vertical Angle = 0

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

2 - Vertical Plane Through Horizontal Angles (45 - 225)

3 - Vertical Plane Through Horizontal Angles (90 - 270)