

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

IESNA:LM-63-2002

[TESTLAB] Photopia 2017.3.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUEDATE]

[TESTDATE] Tue 3/20/1028

[UPDATE] Mon 3/26/2018

[TEST] SP-00562\_3\_M-15L

[MANUFAC] Spectrum Lighting

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

[LUMINAIRE] Nom. 6" Aperture, LED Downlight

[OTHER] Matte white trim, open aperture

[OTHER] Any flange finish

[OTHER] 67 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] This report prepared by Spectrum Lighting, Preliminary

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1211
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.02
Spacing Criterion (90-270)	1.02
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	12394	12462	12391
55	10565	10330	10169
65	9276	9143	9479
75	8167	8535	8483
85	6942	7022	7126

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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	865.575	865.575	865.575	865.575	865.575	865.575	865.575	865.575	865.575	865.575
5	867.120	879.045	863.587	873.158	854.055	873.158	863.587	879.045	867.120	879.045
10	828.563	833.903	832.800	845.497	838.770	845.497	832.800	833.903	828.563	833.903
15	808.133	781.222	796.313	793.043	789.727	793.043	796.313	781.222	808.133	781.222
20	724.942	729.143	722.985	725.580	720.255	725.580	722.985	729.143	724.942	729.143
25	659.617	654.577	660.653	649.942	651.090	649.942	660.653	654.577	659.617	654.577
30	536.288	540.428	536.018	533.692	538.987	533.692	536.018	540.428	536.288	540.428
35	397.590	402.765	401.250	401.610	402.457	401.610	401.250	402.765	397.590	402.765
40	269.805	269.295	264.217	269.745	266.985	269.745	264.217	269.295	269.805	269.295
45	160.012	163.080	160.898	162.548	159.982	162.548	160.898	163.080	160.012	163.080
50	125.513	128.482	126.765	125.790	126.382	125.790	126.765	128.482	125.513	128.482
55	110.647	111.045	108.188	108.570	106.500	108.570	108.188	111.045	110.647	111.045
60	88.635	89.362	89.175	89.880	90.338	89.880	89.175	89.362	88.635	89.362
65	71.580	71.513	70.552	72.315	73.147	72.315	70.552	71.513	71.580	71.513
70	55.440	54.337	54.870	54.953	56.730	54.953	54.870	54.337	55.440	54.337
75	38.595	39.375	40.335	38.460	40.087	38.460	40.335	39.375	38.595	39.375
80	25.073	25.582	25.192	24.427	26.100	24.427	25.192	25.582	25.073	25.582
85	11.047	10.822	11.175	11.460	11.340	11.460	11.175	10.822	11.047	10.822
90	1.792	1.538	1.665	1.823	1.627	1.823	1.665	1.538	1.792	1.538

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	865.575	865.575	865.575	865.575	865.575	865.575	865.575
5	863.587	873.158	854.055	873.158	863.587	879.045	867.120
10	832.800	845.497	838.770	845.497	832.800	833.903	828.563
15	796.313	793.043	789.727	793.043	796.313	781.222	808.133
20	722.985	725.580	720.255	725.580	722.985	729.143	724.942
25	660.653	649.942	651.090	649.942	660.653	654.577	659.617
30	536.018	533.692	538.987	533.692	536.018	540.428	536.288
35	401.250	401.610	402.457	401.610	401.250	402.765	397.590
40	264.217	269.745	266.985	269.745	264.217	269.295	269.805
45	160.898	162.548	159.982	162.548	160.898	163.080	160.012
50	126.765	125.790	126.382	125.790	126.765	128.482	125.513
55	108.188	108.570	106.500	108.570	108.188	111.045	110.647
60	89.175	89.880	90.338	89.880	89.175	89.362	88.635
65	70.552	72.315	73.147	72.315	70.552	71.513	71.580
70	54.870	54.953	56.730	54.953	54.870	54.337	55.440
75	40.335	38.460	40.087	38.460	40.335	39.375	38.595
80	25.192	24.427	26.100	24.427	25.192	25.582	25.073
85	11.175	11.460	11.340	11.460	11.175	10.822	11.047
90	1.665	1.823	1.627	1.823	1.665	1.538	1.792

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	303.43	N.A.	25.10
0-30	599.05	N.A.	49.50
0-40	848.90	N.A.	70.10
0-60	1083.88	N.A.	89.50
0-80	1197.12	N.A.	98.90
0-90	1210.51	N.A.	100.00
10-90	1128.76	N.A.	93.20
20-40	545.47	N.A.	45.10
20-50	683.27	N.A.	56.40
40-70	306.25	N.A.	25.30
60-80	113.24	N.A.	9.40
70-80	41.96	N.A.	3.50
80-90	13.40	N.A.	1.10
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	1210.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	81.75
10-20	221.68
20-30	295.62
30-40	249.85
40-50	137.80
50-60	97.18
60-70	71.27
70-80	41.96
80-90	13.40
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

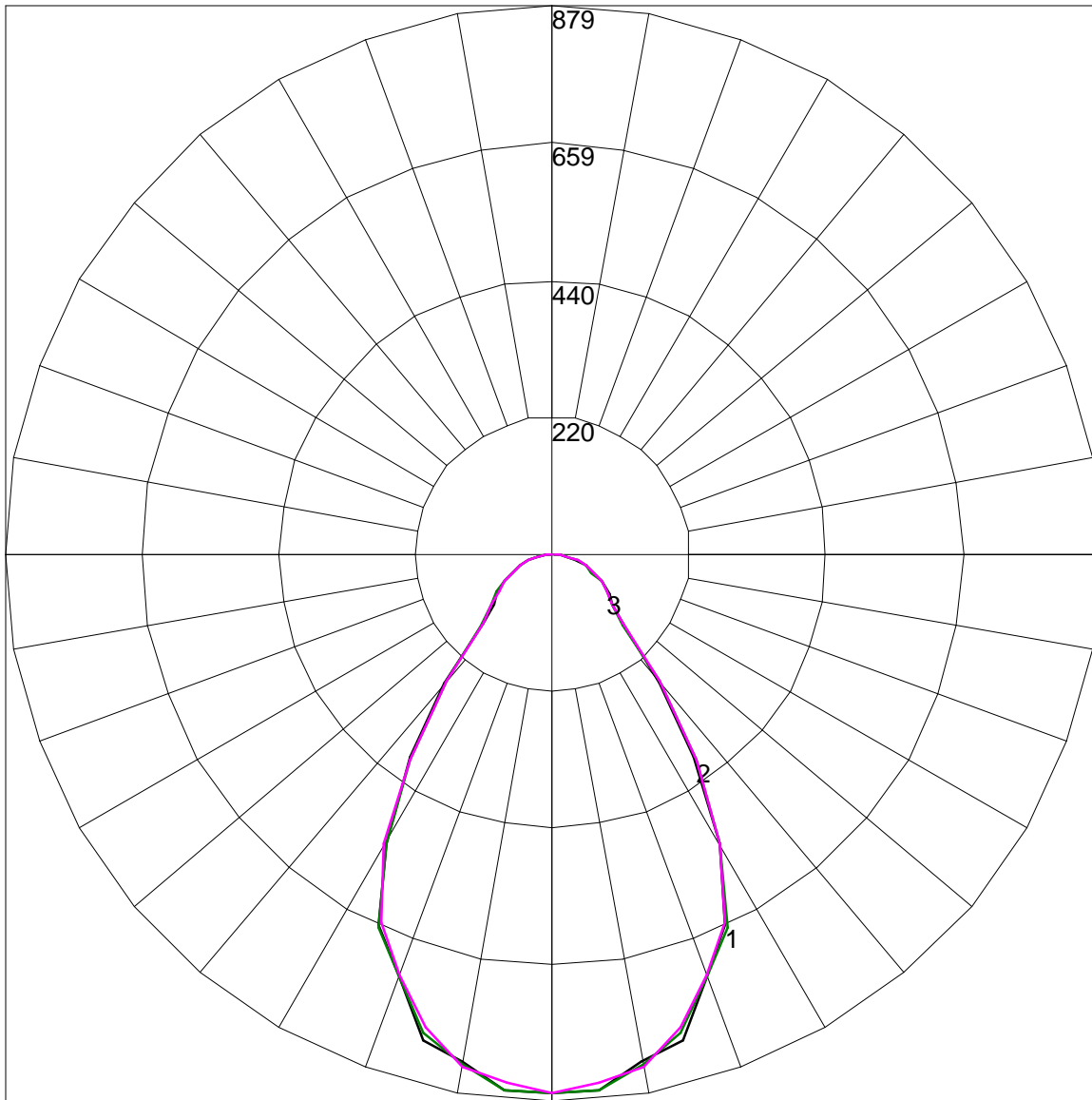
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38

POLAR GRAPH



Maximum Candela = 879.045 Located At Horizontal Angle = 22.5, Vertical Angle = 5

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

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

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