

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP8ES-15L35KDX-AR8ES-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 3/20/2018

[UPDATE] Mon 3/26/2018

[TEST] SP-00563\_2\_M-15L

[MANUFAC] Spectrum Lighting

[LUMCAT] SP8ES-15L-35K-DX / AR8ES-MW-xF

[LUMINAIRE] Nom. 8" Aperture, LED Downlight

[OTHER] Matte White trim, open aperture

[OTHER] Any flange finish

[OTHER] 71 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	1255
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.06
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.63 ft (Diameter)
Luminous Width (90-270)	0.63 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	8461	8503	8511
55	6949	6799	6741
65	6053	6087	6071
75	5275	5334	5317
85	4048	4307	4271

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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	865.178	865.178	865.178	865.178	865.178	865.178	865.178	865.178	865.178	865.178
5	872.107	854.565	846.308	862.447	846.128	862.447	846.308	854.565	872.107	854.565
10	839.138	830.640	837.413	833.040	830.888	833.040	837.413	830.640	839.138	830.640
15	783.143	780.300	780.202	784.995	784.305	784.995	780.202	780.300	783.143	780.300
20	725.783	722.700	719.100	723.150	719.550	723.150	719.100	722.700	725.783	722.700
25	654.015	652.830	650.625	647.970	649.935	647.970	650.625	652.830	654.015	652.830
30	584.438	582.240	583.852	583.972	586.747	583.972	583.852	582.240	584.438	582.240
35	457.777	457.440	458.970	457.853	455.430	457.853	458.970	457.440	457.777	457.440
40	302.962	302.925	300.540	300.608	304.283	300.608	300.540	302.925	302.962	302.925
45	170.692	171.705	171.540	170.325	171.697	170.325	171.540	171.705	170.692	171.705
50	129.982	128.782	130.590	128.798	127.170	128.798	130.590	128.782	129.982	128.782
55	113.707	111.037	111.263	110.700	110.310	110.700	111.263	111.037	113.707	111.037
60	91.132	91.252	91.515	90.750	91.695	90.750	91.515	91.252	91.132	91.252
65	72.975	72.825	73.395	72.915	73.192	72.915	73.395	72.825	72.975	72.825
70	55.260	55.117	55.328	55.875	54.630	55.875	55.328	55.117	55.260	55.117
75	38.947	38.888	39.383	39.150	39.263	39.150	39.383	38.888	38.947	38.888
80	24.082	23.288	24.352	24.172	23.242	24.172	24.352	23.288	24.082	23.288
85	10.065	10.590	10.710	10.320	10.620	10.320	10.710	10.590	10.065	10.590
90	1.718	1.762	1.635	1.800	1.485	1.800	1.635	1.762	1.718	1.762

**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	865.178	865.178	865.178	865.178	865.178	865.178	865.178
5	846.308	862.447	846.128	862.447	846.308	854.565	872.107
10	837.413	833.040	830.888	833.040	837.413	830.640	839.138
15	780.202	784.995	784.305	784.995	780.202	780.300	783.143
20	719.100	723.150	719.550	723.150	719.100	722.700	725.783
25	650.625	647.970	649.935	647.970	650.625	652.830	654.015
30	583.852	583.972	586.747	583.972	583.852	582.240	584.438
35	458.970	457.853	455.430	457.853	458.970	457.440	457.777
40	300.540	300.608	304.283	300.608	300.540	302.925	302.962
45	171.540	170.325	171.697	170.325	171.540	171.705	170.692
50	130.590	128.798	127.170	128.798	130.590	128.782	129.982
55	111.263	110.700	110.310	110.700	111.263	111.037	113.707
60	91.515	90.750	91.695	90.750	91.515	91.252	91.132
65	73.395	72.915	73.192	72.915	73.395	72.825	72.975
70	55.328	55.875	54.630	55.875	55.328	55.117	55.260
75	39.383	39.150	39.263	39.150	39.383	38.888	38.947
80	24.352	24.172	23.242	24.172	24.352	23.288	24.082
85	10.710	10.320	10.620	10.320	10.710	10.590	10.065
90	1.635	1.800	1.485	1.800	1.635	1.762	1.718

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	300.86	N.A.	24.00
0-30	601.10	N.A.	47.90
0-40	881.23	N.A.	70.20
0-60	1128.61	N.A.	89.90
0-80	1242.59	N.A.	99.00
0-90	1255.27	N.A.	100.00
10-90	1174.25	N.A.	93.50
20-40	580.36	N.A.	46.20
20-50	728.66	N.A.	58.00
40-70	319.82	N.A.	25.50
60-80	113.99	N.A.	9.10
70-80	41.54	N.A.	3.30
80-90	12.67	N.A.	1.00
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	1255.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	81.02
10-20	219.85
20-30	300.24
30-40	280.13
40-50	148.30
50-60	99.08
60-70	72.44
70-80	41.54
80-90	12.67
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

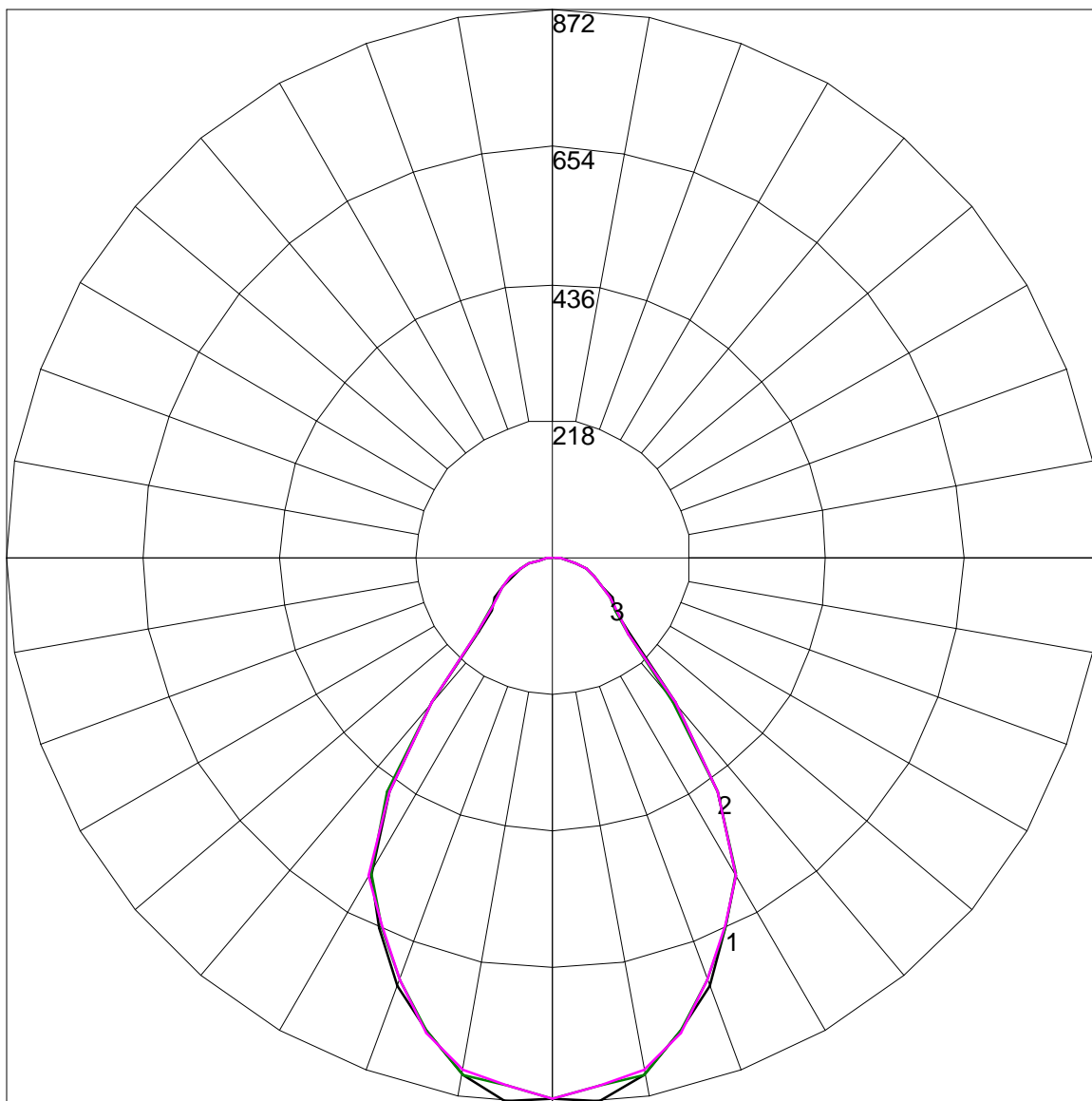
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	92	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	74	69	65	72	68	65	63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	63	55	50	72	62	55	50	60	54	50	59	53	49	58	53	49	47
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

POLAR GRAPH



Maximum Candela = 872.107 Located At Horizontal Angle = 0, 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)