

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP8ES-15L35KDX-AR8ES-SGXF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TESTLAB] Photopia 2017.2.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)  
[ISSUE DATE]  
[TEST DATE] Thu 7/27/2017  
[UPDATE] Mon 9/26/2017  
[TEST] SP-00563\_1\_M-15L  
[MANUFAC] Spectrum Lighting  
[LUMCAT] SP8ES-15L-35K-DX / AR8ES-SG-xF  
[LUMINAIRE] Nom. 8" Aperture, LED Downlight  
[OTHER] Semi-Diffuse clear anodized, open aperture  
[OTHER] Any flange finish  
[OTHER] 51.1 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	1299
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.82
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	0.80
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	2020	1997	1991
55	344	336	344
65	243	235	240
75	177	165	158
85	87	94	72

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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	1785.683	1785.682	1785.682	1785.682	1785.682	1785.682	1785.682	1785.682	1785.682	1785.682
5	1752.225	1758.165	1771.065	1758.517	1763.130	1758.517	1771.065	1758.165	1752.225	1758.165
10	1673.332	1685.010	1671.015	1674.570	1680.247	1674.570	1671.015	1685.010	1673.332	1685.010
15	1528.777	1524.510	1528.155	1517.565	1521.398	1517.565	1528.155	1524.510	1528.777	1524.510
20	1275.547	1281.908	1271.017	1280.550	1280.880	1280.550	1271.017	1281.908	1275.547	1281.908
25	928.215	926.445	925.215	922.830	920.258	922.830	925.215	926.445	928.215	926.445
30	608.640	608.378	609.420	606.780	608.617	606.780	609.420	608.378	608.640	608.378
35	354.900	355.298	355.260	354.480	353.947	354.480	355.260	355.298	354.900	355.298
40	169.305	169.822	169.890	170.347	170.970	170.347	169.890	169.822	169.305	169.822
45	40.755	39.675	40.290	40.733	40.155	40.733	40.290	39.675	40.755	39.675
50	7.957	8.355	8.318	8.422	8.460	8.422	8.318	8.355	7.957	8.355
55	5.633	5.670	5.505	5.775	5.625	5.775	5.505	5.670	5.633	5.670
60	4.268	4.072	3.922	3.885	3.743	3.885	3.922	4.072	4.268	4.072
65	2.925	2.768	2.828	2.820	2.895	2.820	2.828	2.768	2.925	2.768
70	2.070	1.762	1.927	1.972	1.770	1.972	1.927	1.762	2.070	1.762
75	1.305	1.170	1.215	1.230	1.170	1.230	1.215	1.170	1.305	1.170
80	0.652	0.593	0.615	0.675	0.645	0.675	0.615	0.593	0.652	0.593
85	0.217	0.210	0.233	0.158	0.180	0.158	0.233	0.210	0.217	0.210
90	0.037	0.037	0.045	0.037	0.000	0.037	0.045	0.037	0.037	0.037

**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	1785.682	1785.682	1785.682	1785.682	1785.682	1785.682	1785.682
5	1771.065	1758.517	1763.130	1758.517	1771.065	1758.165	1752.225
10	1671.015	1674.570	1680.247	1674.570	1671.015	1685.010	1673.332
15	1528.155	1517.565	1521.398	1517.565	1528.155	1524.510	1528.777
20	1271.017	1280.550	1280.880	1280.550	1271.017	1281.908	1275.547
25	925.215	922.830	920.258	922.830	925.215	926.445	928.215
30	609.420	606.780	608.617	606.780	609.420	608.378	608.640
35	355.260	354.480	353.947	354.480	355.260	355.298	354.900
40	169.890	170.347	170.970	170.347	169.890	169.822	169.305
45	40.290	40.733	40.155	40.733	40.290	39.675	40.755
50	8.318	8.422	8.460	8.422	8.318	8.355	7.957
55	5.505	5.775	5.625	5.775	5.505	5.670	5.633
60	3.922	3.885	3.743	3.885	3.922	4.072	4.268
65	2.828	2.820	2.895	2.820	2.828	2.768	2.925
70	1.927	1.972	1.770	1.972	1.927	1.762	2.070
75	1.215	1.230	1.170	1.230	1.215	1.170	1.305
80	0.615	0.675	0.645	0.675	0.615	0.593	0.652
85	0.233	0.158	0.180	0.158	0.233	0.210	0.217
90	0.045	0.037	0.000	0.037	0.045	0.037	0.037

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	586.16	N.A.	45.10
0-30	1011.18	N.A.	77.80
0-40	1240.59	N.A.	95.50
0-60	1294.62	N.A.	99.70
0-80	1298.78	N.A.	100.00
0-90	1299.07	N.A.	100.00
10-90	1133.67	N.A.	87.30
20-40	654.42	N.A.	50.40
20-50	703.19	N.A.	54.10
40-70	56.88	N.A.	4.40
60-80	4.16	N.A.	0.30
70-80	1.31	N.A.	0.10
80-90	0.29	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	1299.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	165.40
10-20	420.77
20-30	425.01
30-40	229.41
40-50	48.77
50-60	5.26
60-70	2.85
70-80	1.31
80-90	0.29
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

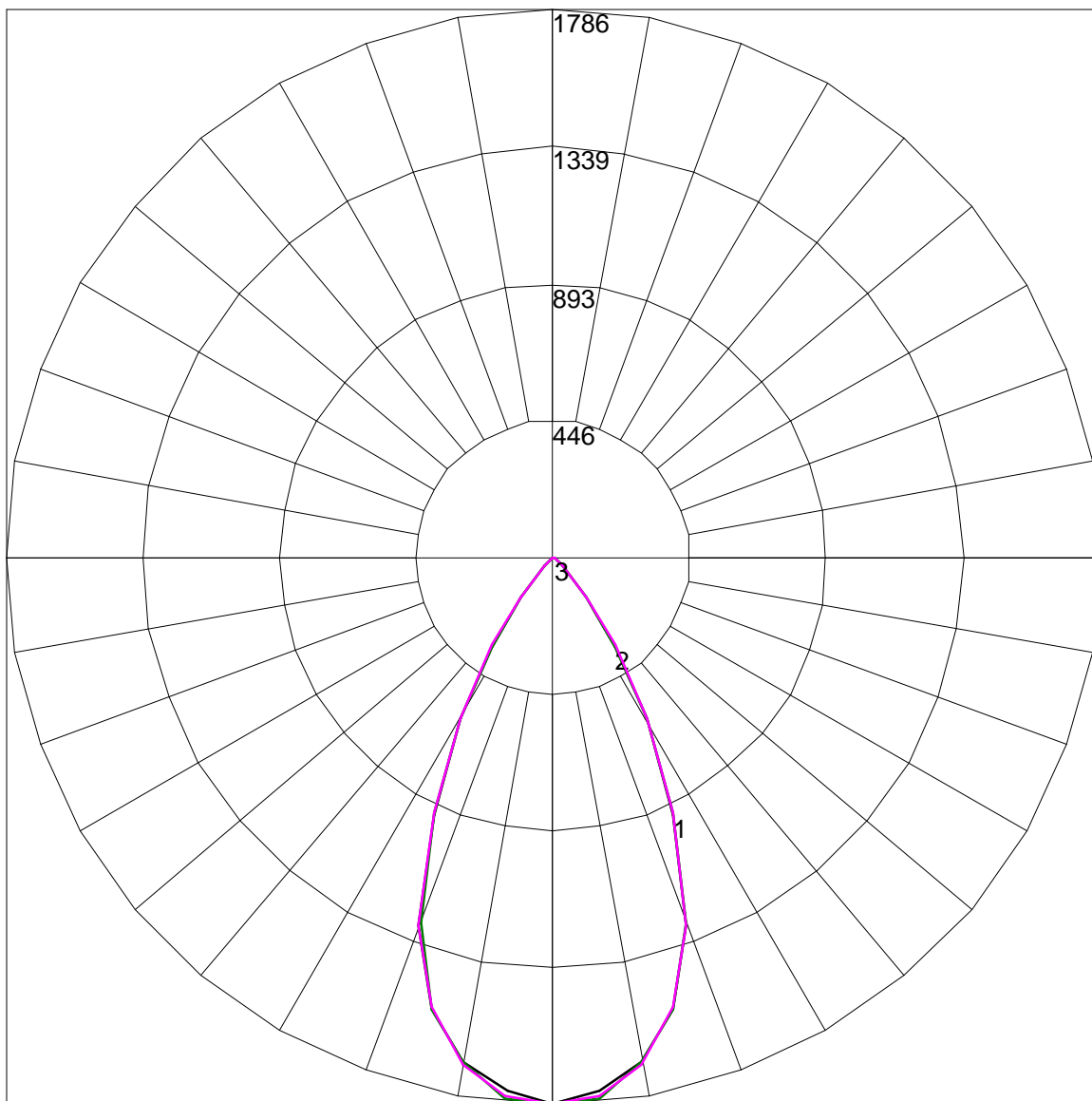
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	97	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83
4	99	92	86	82	97	90	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	71	79	74	71	78	74	71	76	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	62	61
9	78	69	64	60	77	69	63	60	68	63	59	67	62	59	66	62	59	58
10	75	66	60	57	74	65	60	56	64	60	56	64	59	56	63	59	56	55

POLAR GRAPH



Maximum Candela = 1785.683 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)