

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP6ES-11L35KDX-AR6ES-MWXF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TESTLAB] Photopia 2017.3.0 see: www.ltioptics.com/ies
[ISSUEDATE]
[TESTDATE] Tue 3/20/1028
[UPDATE] Mon 3/26/2018
[TEST] SP-00562_3_M-11L
[MANUFAC] Spectrum Lighting
[LUMCAT] SP6ES-11L-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	888
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	11
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	9089	9139	9087
55	7748	7576	7457
65	6803	6705	6952
75	5989	6259	6221
85	5091	5150	5226

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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	634.755	634.755	634.755	634.755	634.755	634.755	634.755	634.755	634.755	634.755
5	635.888	644.633	633.298	640.316	626.307	640.316	633.298	644.633	635.888	644.633
10	607.613	611.529	610.720	620.032	615.098	620.032	610.720	611.529	607.613	611.529
15	592.631	572.897	583.963	581.565	579.134	581.565	583.963	572.897	592.631	572.897
20	531.625	534.705	530.189	532.092	528.187	532.092	530.189	534.705	531.625	534.705
25	483.720	480.024	484.479	476.625	477.466	476.625	484.479	480.024	483.720	480.024
30	393.278	396.314	393.080	391.375	395.258	391.375	393.080	396.314	393.278	396.314
35	291.566	295.361	294.250	294.514	295.136	294.514	294.250	295.361	291.566	295.361
40	197.857	197.483	193.760	197.813	195.789	197.813	193.760	197.483	197.857	197.483
45	117.343	119.592	117.992	119.202	117.321	119.202	117.992	119.592	117.343	119.592
50	92.043	94.221	92.961	92.246	92.681	92.246	92.961	94.221	92.043	94.221
55	81.142	81.433	79.338	79.618	78.100	79.618	79.338	81.433	81.142	81.433
60	64.999	65.533	65.395	65.912	66.248	65.912	65.395	65.533	64.999	65.533
65	52.492	52.443	51.739	53.031	53.642	53.031	51.739	52.443	52.492	52.443
70	40.656	39.848	40.238	40.299	41.602	40.299	40.238	39.848	40.656	39.848
75	28.303	28.875	29.579	28.204	29.398	28.204	29.579	28.875	28.303	28.875
80	18.387	18.761	18.475	17.914	19.140	17.914	18.475	18.761	18.387	18.761
85	8.102	7.937	8.195	8.404	8.316	8.404	8.195	7.937	8.102	7.937
90	1.315	1.128	1.221	1.337	1.194	1.337	1.221	1.128	1.315	1.128

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	634.755	634.755	634.755	634.755	634.755	634.755	634.755
5	633.298	640.316	626.307	640.316	633.298	644.633	635.888
10	610.720	620.032	615.098	620.032	610.720	611.529	607.613
15	583.963	581.565	579.134	581.565	583.963	572.897	592.631
20	530.189	532.092	528.187	532.092	530.189	534.705	531.625
25	484.479	476.625	477.466	476.625	484.479	480.024	483.720
30	393.080	391.375	395.258	391.375	393.080	396.314	393.278
35	294.250	294.514	295.136	294.514	294.250	295.361	291.566
40	193.760	197.813	195.789	197.813	193.760	197.483	197.857
45	117.992	119.202	117.321	119.202	117.992	119.592	117.343
50	92.961	92.246	92.681	92.246	92.961	94.221	92.043
55	79.338	79.618	78.100	79.618	79.338	81.433	81.142
60	65.395	65.912	66.248	65.912	65.395	65.533	64.999
65	51.739	53.031	53.642	53.031	51.739	52.443	52.492
70	40.238	40.299	41.602	40.299	40.238	39.848	40.656
75	29.579	28.204	29.398	28.204	29.579	28.875	28.303
80	18.475	17.914	19.140	17.914	18.475	18.761	18.387
85	8.195	8.404	8.316	8.404	8.195	7.937	8.102
90	1.221	1.337	1.194	1.337	1.221	1.128	1.315

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	222.52	N.A.	25.10
0-30	439.30	N.A.	49.50
0-40	622.53	N.A.	70.10
0-60	794.85	N.A.	89.50
0-80	877.89	N.A.	98.90
0-90	887.71	N.A.	100.00
10-90	827.76	N.A.	93.20
20-40	400.01	N.A.	45.10
20-50	501.07	N.A.	56.40
40-70	224.59	N.A.	25.30
60-80	83.04	N.A.	9.40
70-80	30.77	N.A.	3.50
80-90	9.83	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	887.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	59.95
10-20	162.57
20-30	216.79
30-40	183.22
40-50	101.06
50-60	71.26
60-70	52.27
70-80	30.77
80-90	9.83
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

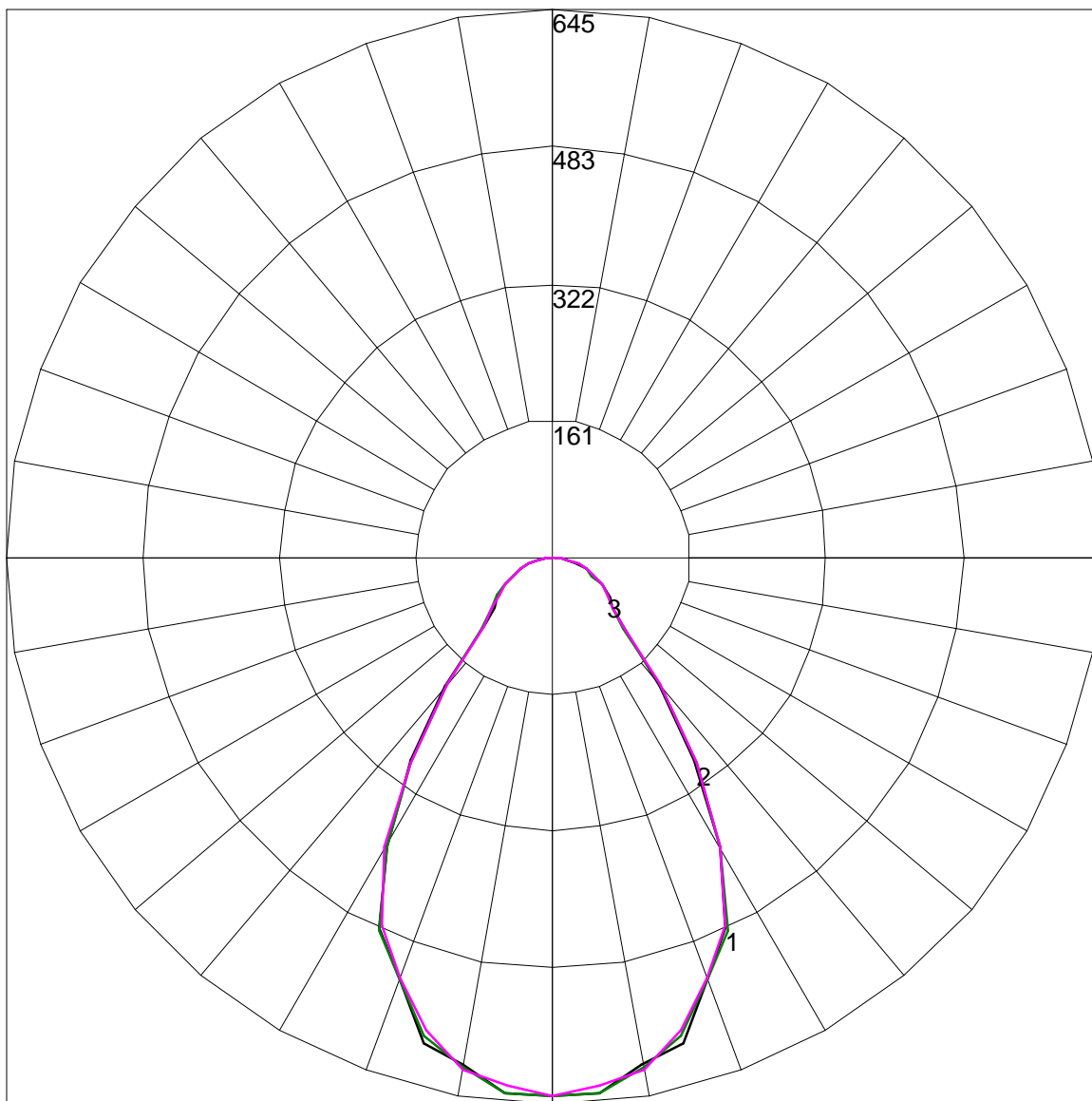
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	76	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 = 644.633 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)