

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP8ES-11L35KDX-AR8ES-MWXF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Tue 3/20/2018

[UPDATE] Mon 3/26/2018

[TEST] SP-00563_2_M-11L

[MANUFAC] Spectrum Lighting

[LUMCAT] SP8ES-11L-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	921
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	11
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	6205	6236	6242
55	5096	4986	4944
65	4439	4464	4452
75	3868	3911	3899
85	2968	3159	3132

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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	634.464	634.464	634.464	634.464	634.464	634.464	634.464	634.464	634.464	634.464
5	639.546	626.681	620.626	632.462	620.494	632.462	620.626	626.681	639.546	626.681
10	615.368	609.136	614.103	610.896	609.318	610.896	614.103	609.136	615.368	609.136
15	574.305	572.220	572.149	575.663	575.157	575.663	572.149	572.220	574.305	572.220
20	532.241	529.980	527.340	530.310	527.670	530.310	527.340	529.980	532.241	529.980
25	479.611	478.742	477.125	475.178	476.619	475.178	477.125	478.742	479.611	478.742
30	428.588	426.976	428.159	428.247	430.282	428.247	428.159	426.976	428.588	426.976
35	335.704	335.456	336.578	335.759	333.982	335.759	336.578	335.456	335.704	335.456
40	222.173	222.145	220.396	220.446	223.141	220.446	220.396	222.145	222.173	222.145
45	125.175	125.917	125.796	124.905	125.912	124.905	125.796	125.917	125.175	125.917
50	95.321	94.441	95.766	94.452	93.258	94.452	95.766	94.441	95.321	94.441
55	83.386	81.428	81.593	81.180	80.894	81.180	81.593	81.428	83.386	81.428
60	66.831	66.919	67.111	66.550	67.243	66.550	67.111	66.919	66.831	66.919
65	53.515	53.405	53.823	53.471	53.675	53.471	53.823	53.405	53.515	53.405
70	40.524	40.420	40.574	40.975	40.062	40.975	40.574	40.420	40.524	40.420
75	28.562	28.518	28.881	28.710	28.793	28.710	28.881	28.518	28.562	28.518
80	17.661	17.078	17.859	17.727	17.045	17.727	17.859	17.078	17.661	17.078
85	7.381	7.766	7.854	7.568	7.788	7.568	7.854	7.766	7.381	7.766
90	1.260	1.293	1.199	1.320	1.089	1.320	1.199	1.293	1.260	1.293

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	634.464	634.464	634.464	634.464	634.464	634.464	634.464
5	620.626	632.462	620.494	632.462	620.626	626.681	639.546
10	614.103	610.896	609.318	610.896	614.103	609.136	615.368
15	572.149	575.663	575.157	575.663	572.149	572.220	574.305
20	527.340	530.310	527.670	530.310	527.340	529.980	532.241
25	477.125	475.178	476.619	475.178	477.125	478.742	479.611
30	428.159	428.247	430.282	428.247	428.159	426.976	428.588
35	336.578	335.759	333.982	335.759	336.578	335.456	335.704
40	220.396	220.446	223.141	220.446	220.396	222.145	222.173
45	125.796	124.905	125.912	124.905	125.796	125.917	125.175
50	95.766	94.452	93.258	94.452	95.766	94.441	95.321
55	81.593	81.180	80.894	81.180	81.593	81.428	83.386
60	67.111	66.550	67.243	66.550	67.111	66.919	66.831
65	53.823	53.471	53.675	53.471	53.823	53.405	53.515
70	40.574	40.975	40.062	40.975	40.574	40.420	40.524
75	28.881	28.710	28.793	28.710	28.881	28.518	28.562
80	17.859	17.727	17.045	17.727	17.859	17.078	17.661
85	7.854	7.568	7.788	7.568	7.854	7.766	7.381
90	1.199	1.320	1.089	1.320	1.199	1.293	1.260

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	220.63	N.A.	24.00
0-30	440.81	N.A.	47.90
0-40	646.23	N.A.	70.20
0-60	827.65	N.A.	89.90
0-80	911.24	N.A.	99.00
0-90	920.53	N.A.	100.00
10-90	861.12	N.A.	93.50
20-40	425.60	N.A.	46.20
20-50	534.35	N.A.	58.00
40-70	234.54	N.A.	25.50
60-80	83.59	N.A.	9.10
70-80	30.47	N.A.	3.30
80-90	9.29	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	920.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	59.41
10-20	161.22
20-30	220.17
30-40	205.43
40-50	108.75
50-60	72.66
60-70	53.12
70-80	30.47
80-90	9.29
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

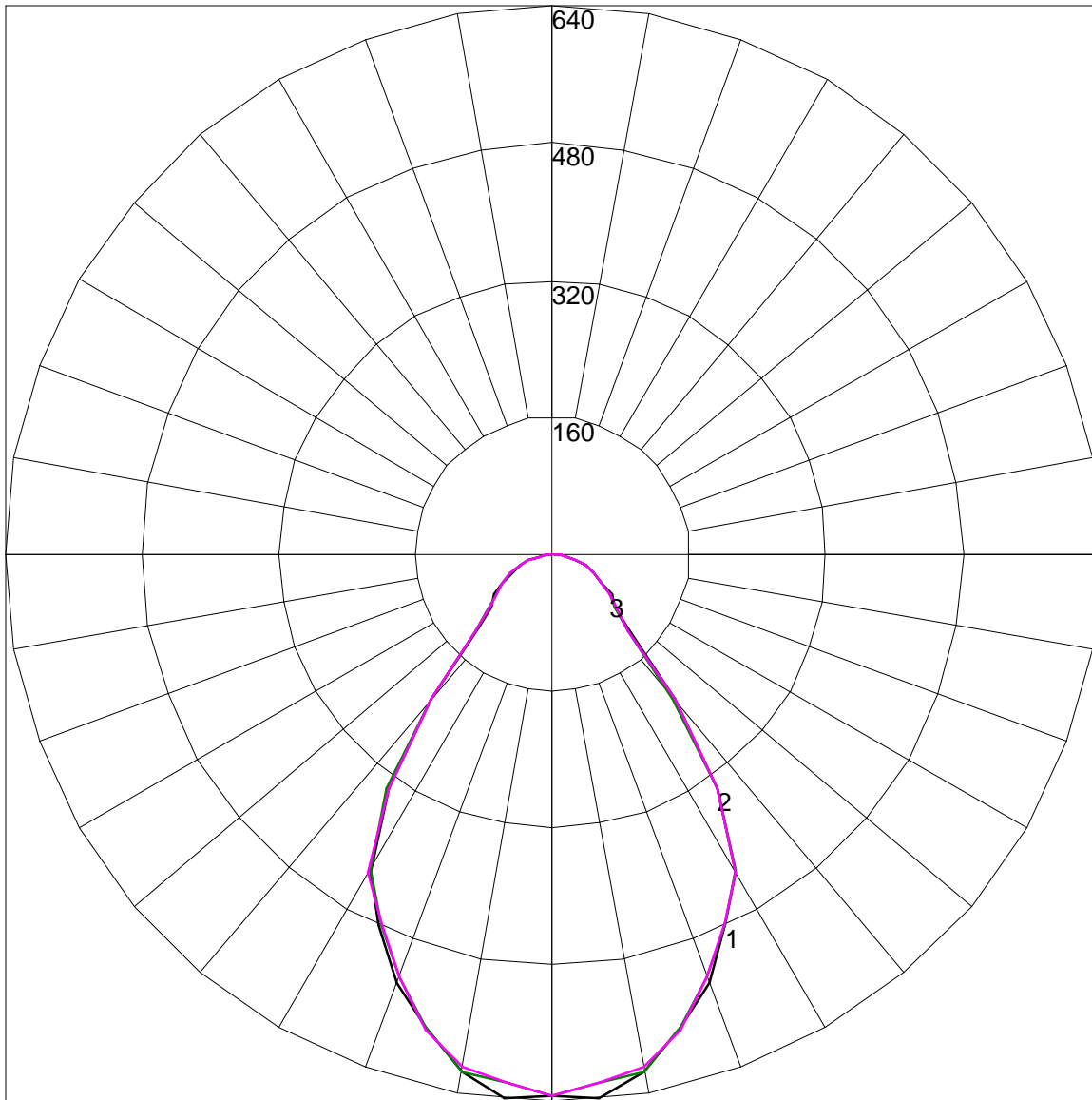
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	107	104	101	109	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	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	49	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	43	39	49	43	39	48	43	39	48	42	39	37

POLAR GRAPH



Maximum Candela = 639.546 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)