SPECTRUM LIGHTING INC.
www.speclight.com

PHOTOMETRY

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP8ES-11L35KDX-AR8ES-SGXF.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] Photopia 2017.2.0 see: www.ltioptics.com/ies
[ISSUEDATE]
[TESTDATE] Thu 7/27/2017
[UPDATE] Mon 9/26/2017
[TEST] SP-00563_1_M-11L
[MANUFAC] Spectrum Lighting
[LUMCAT] SP8ES-11L-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	953
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	11
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	1482	1465	1460
55	252	247	252
65	178	172	176
75	130	121	116
85	64	69	53

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0	1309.501	1309.501	1309.501	1309.501	1309.501	1309.501	1309.501	1309.501	1309.501	1309.501
5	1284.965	1289.321	1298.781	1289.580	1292.962	1289.580	1298.781	1289.321	1284.965	1289.321
10	1227.111	1235.674	1225.411	1228.018	1232.182	1228.018	1225.411	1235.674	1227.111	1235.674
15	1121.104	1117.974	1120.647	1112.881	1115.692	1112.881	1120.647	1117.974	1121.104	1117.974
20	935.402	940.066	932.080	939.070	939.312	939.070	932.080	940.066	935.402	940.066
25	680.691	679.393	678.491	676.742	674.856	676.742	678.491	679.393	680.691	679.393
30	446.336	446.144	446.908	444.972	446.320	444.972	446.908	446.144	446.336	446.144
35	260.260	260.552	260.524	259.952	259.562	259.952	260.524	260.552	260.260	260.552
40	124.157	124.537	124.586	124.922	125.378	124.922	124.586	124.537	124.157	124.537
45	29.887	29.095	29.546	29.871	29.447	29.871	29.546	29.095	29.887	29.095
50	5.836	6.127	6.100	6.177	6.204	6.177	6.100	6.127	5.836	6.127
55	4.131	4.158	4.037	4.235	4.125	4.235	4.037	4.158	4.131	4.158
60	3.130	2.987	2.877	2.849	2.745	2.849	2.877	2.987	3.130	2.987
65	2.145	2.030	2.074	2.068	2.123	2.068	2.074	2.030	2.145	2.030
70	1.518	1.293	1.414	1.447	1.298	1.447	1.414	1.293	1.518	1.293
75	0.957	0.858	0.891	0.902	0.858	0.902	0.891	0.858	0.957	0.858
80	0.479	0.435	0.451	0.495	0.473	0.495	0.451	0.435	0.479	0.435
85	0.160	0.154	0.171	0.116	0.132	0.116	0.171	0.154	0.160	0.154
90	0.028	0.028	0.033	0.028	0.000	0.028	0.033	0.028	0.028	0.028

Vert. Angles **Horizontal Angles**

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0	1309.501	1309.501	1309.501	1309.501	1309.501	1309.501	1309.501
5	1298.781	1289.580	1292.962	1289.580	1298.781	1289.321	1284.965
10	1225.411	1228.018	1232.182	1228.018	1225.411	1235.674	1227.111
15	1120.647	1112.881	1115.692	1112.881	1120.647	1117.974	1121.104
20	932.080	939.070	939.312	939.070	932.080	940.066	935.402
25	678.491	676.742	674.856	676.742	678.491	679.393	680.691
30	446.908	444.972	446.320	444.972	446.908	446.144	446.336
35	260.524	259.952	259.562	259.952	260.524	260.552	260.260
40	124.586	124.922	125.378	124.922	124.586	124.537	124.157
45	29.546	29.871	29.447	29.871	29.546	29.095	29.887
50	6.100	6.177	6.204	6.177	6.100	6.127	5.836
55	4.037	4.235	4.125	4.235	4.037	4.158	4.131
60	2.877	2.849	2.745	2.849	2.877	2.987	3.130
65	2.074	2.068	2.123	2.068	2.074	2.030	2.145
70	1.414	1.447	1.298	1.447	1.414	1.293	1.518
75	0.891	0.902	0.858	0.902	0.891	0.858	0.957
80	0.451	0.495	0.473	0.495	0.451	0.435	0.479
85	0.171	0.116	0.132	0.116	0.171	0.154	0.160
90	0.033	0.028	0.000	0.028	0.033	0.028	0.028

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	429.85	N.A.	45.10
0-30	741.53	N.A.	77.80
0-40	909.77	N.A.	95.50
0-60	949.39	N.A.	99.70
0-80	952.44	N.A.	100.00
0-90	952.65	N.A.	100.00
10-90	831.36	N.A.	87.30
20-40	479.91	N.A.	50.40
20-50	515.68	N.A.	54.10
40-70	41.71	N.A.	4.40
60-80	3.05	N.A.	0.30
70-80	0.96	N.A.	0.10
80-90	0.21	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	952.65	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	121.29
10-20	308.56
20-30	311.68
30-40	168.23
40-50	35.76
50-60	3.86
60-70	2.09
70-80	0.96
80-90	0.21
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	91	90	88
3	103	97	93	89	102	96	92	88	93	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	92	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	70	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

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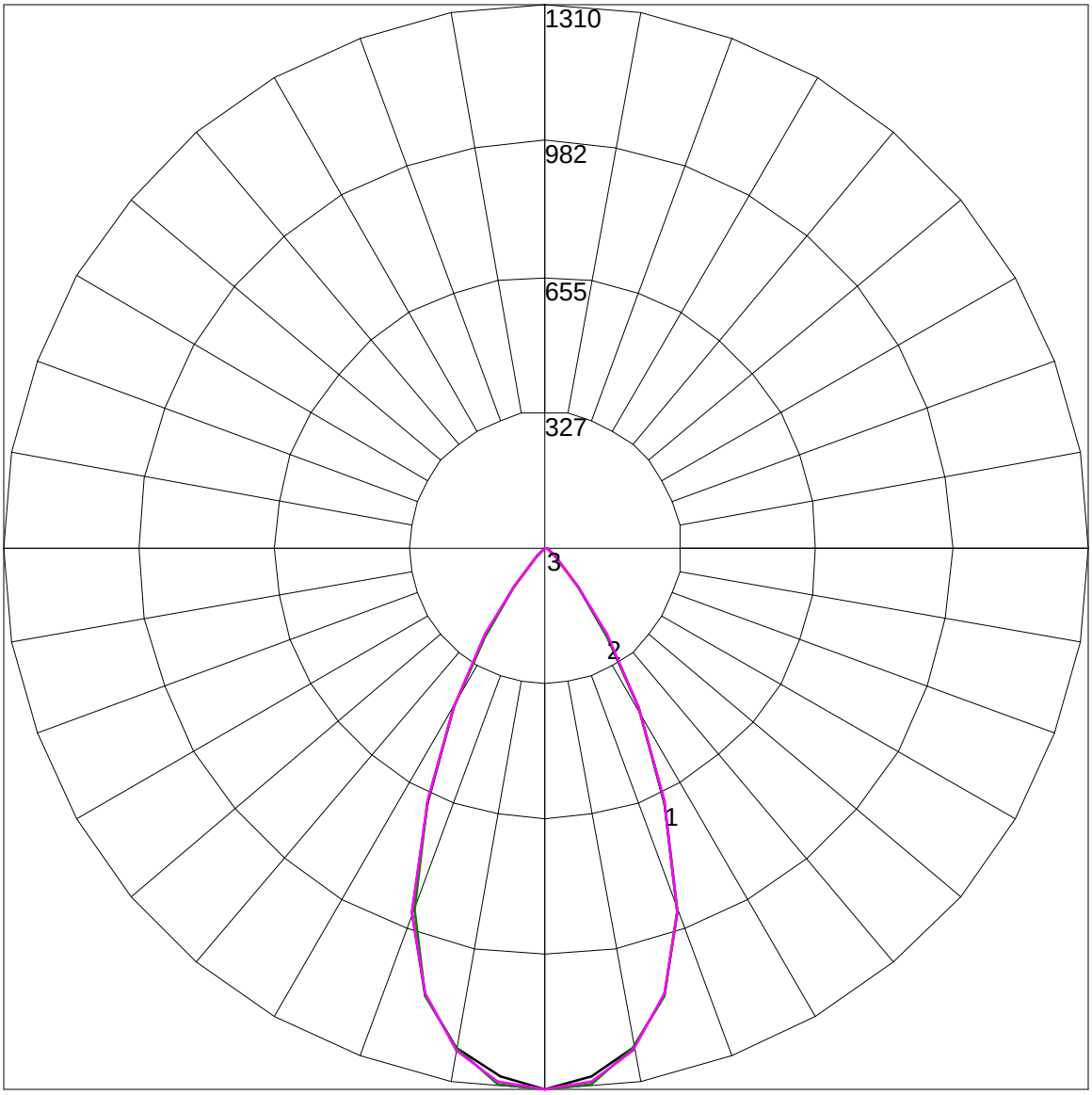
POLAR GRAPH



Maximum Candela = 1309.501 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)