SPECTRUM LIGHTING INC.
www.speclight.com

PHOTOMETRY

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP6ES-11L35KDX-AR6ES-SGXF.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] Photopia 2017.2.0 see: www.ltioptics.com/ies
[ISSUEDATE]
[TESTDATE] Mon 9/25/2017
[UPDATE] Tue 9/26/2017
[TEST] SP-00562_1_M-11L
[MANUFAC] Spectrum Lighting
[LUMCAT] SP6ES-11L-35K-DX / AR6ES-SG-xF
[LUMINAIRE] Nom. 6" Aperture, LED Downlight
[OTHER] Semi-Diffuse clear anodized, open aperture
[OTHER] Any flange finish
[OTHER] 52.4 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	908
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	11
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.80
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	1971	1976	1926
55	417	418	410
65	258	270	287
75	157	198	193
85	118	97	118

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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	1245.261	1245.261	1245.261	1245.261	1245.261	1245.261	1245.261	1245.261	1245.261	1245.261
5	1225.978	1231.720	1240.421	1216.523	1212.767	1216.523	1240.421	1231.720	1225.978	1231.720
10	1135.651	1159.890	1158.795	1154.098	1155.545	1154.098	1158.795	1159.890	1135.651	1159.890
15	1056.495	1059.372	1050.880	1049.719	1052.403	1049.719	1050.880	1059.372	1056.495	1059.372
20	888.718	895.037	893.701	894.146	900.895	894.146	893.701	895.037	888.718	895.037
25	679.107	674.911	677.749	675.582	682.006	675.582	677.749	674.911	679.107	674.911
30	441.166	441.969	440.319	441.271	442.189	441.271	440.319	441.969	441.166	441.969
35	242.715	236.544	239.366	241.302	245.075	241.302	239.366	236.544	242.715	236.544
40	103.686	104.819	105.402	104.022	103.582	104.022	105.402	104.819	103.686	104.819
45	25.443	24.118	25.509	24.789	24.866	24.789	25.509	24.118	25.443	24.118
50	6.716	6.259	6.006	6.474	6.353	6.474	6.006	6.259	6.716	6.259
55	4.367	4.092	4.378	4.202	4.296	4.202	4.378	4.092	4.367	4.092
60	3.339	2.783	3.069	3.064	3.372	3.064	3.069	2.783	3.339	2.783
65	1.991	1.980	2.085	2.085	2.211	2.085	2.085	1.980	1.991	1.980
70	1.573	1.540	1.359	1.458	1.271	1.458	1.359	1.540	1.573	1.540
75	0.743	0.919	0.935	0.875	0.913	0.875	0.935	0.919	0.743	0.919
80	0.391	0.396	0.501	0.561	0.495	0.561	0.501	0.396	0.391	0.396
85	0.187	0.143	0.154	0.143	0.187	0.143	0.154	0.143	0.187	0.143
90	0.094	0.055	0.028	0.017	0.017	0.017	0.028	0.055	0.094	0.055

Vert. Angles **Horizontal Angles**

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0	1245.261	1245.261	1245.261	1245.261	1245.261	1245.261	1245.261
5	1240.421	1216.523	1212.767	1216.523	1240.421	1231.720	1225.978
10	1158.795	1154.098	1155.545	1154.098	1158.795	1159.890	1135.651
15	1050.880	1049.719	1052.403	1049.719	1050.880	1059.372	1056.495
20	893.701	894.146	900.895	894.146	893.701	895.037	888.718
25	677.749	675.582	682.006	675.582	677.749	674.911	679.107
30	440.319	441.271	442.189	441.271	440.319	441.969	441.166
35	239.366	241.302	245.075	241.302	239.366	236.544	242.715
40	105.402	104.022	103.582	104.022	105.402	104.819	103.686
45	25.509	24.789	24.866	24.789	25.509	24.118	25.443
50	6.006	6.474	6.353	6.474	6.006	6.259	6.716
55	4.378	4.202	4.296	4.202	4.378	4.092	4.367
60	3.069	3.064	3.372	3.064	3.069	2.783	3.339
65	2.085	2.085	2.211	2.085	2.085	1.980	1.991
70	1.359	1.458	1.271	1.458	1.359	1.540	1.573
75	0.935	0.875	0.913	0.875	0.935	0.919	0.743
80	0.501	0.561	0.495	0.561	0.501	0.396	0.391
85	0.154	0.143	0.187	0.143	0.154	0.143	0.187
90	0.028	0.017	0.017	0.017	0.028	0.055	0.094

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	406.29	N.A.	44.70
0-30	712.67	N.A.	78.50
0-40	870.56	N.A.	95.90
0-60	904.80	N.A.	99.60
0-80	907.92	N.A.	100.00
0-90	908.14	N.A.	100.00
10-90	793.39	N.A.	87.40
20-40	464.27	N.A.	51.10
20-50	494.53	N.A.	54.50
40-70	36.38	N.A.	4.00
60-80	3.11	N.A.	0.30
70-80	0.98	N.A.	0.10
80-90	0.23	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	908.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	114.75
10-20	291.53
20-30	306.38
30-40	157.89
40-50	30.26
50-60	3.99
60-70	2.14
70-80	0.98
80-90	0.23
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	98	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83
4	99	92	86	82	97	91	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	72	79	75	71	78	74	71	77	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	60	67	63	59	66	62	59	58
10	75	66	60	57	74	65	60	57	65	60	56	64	59	56	63	59	56	55

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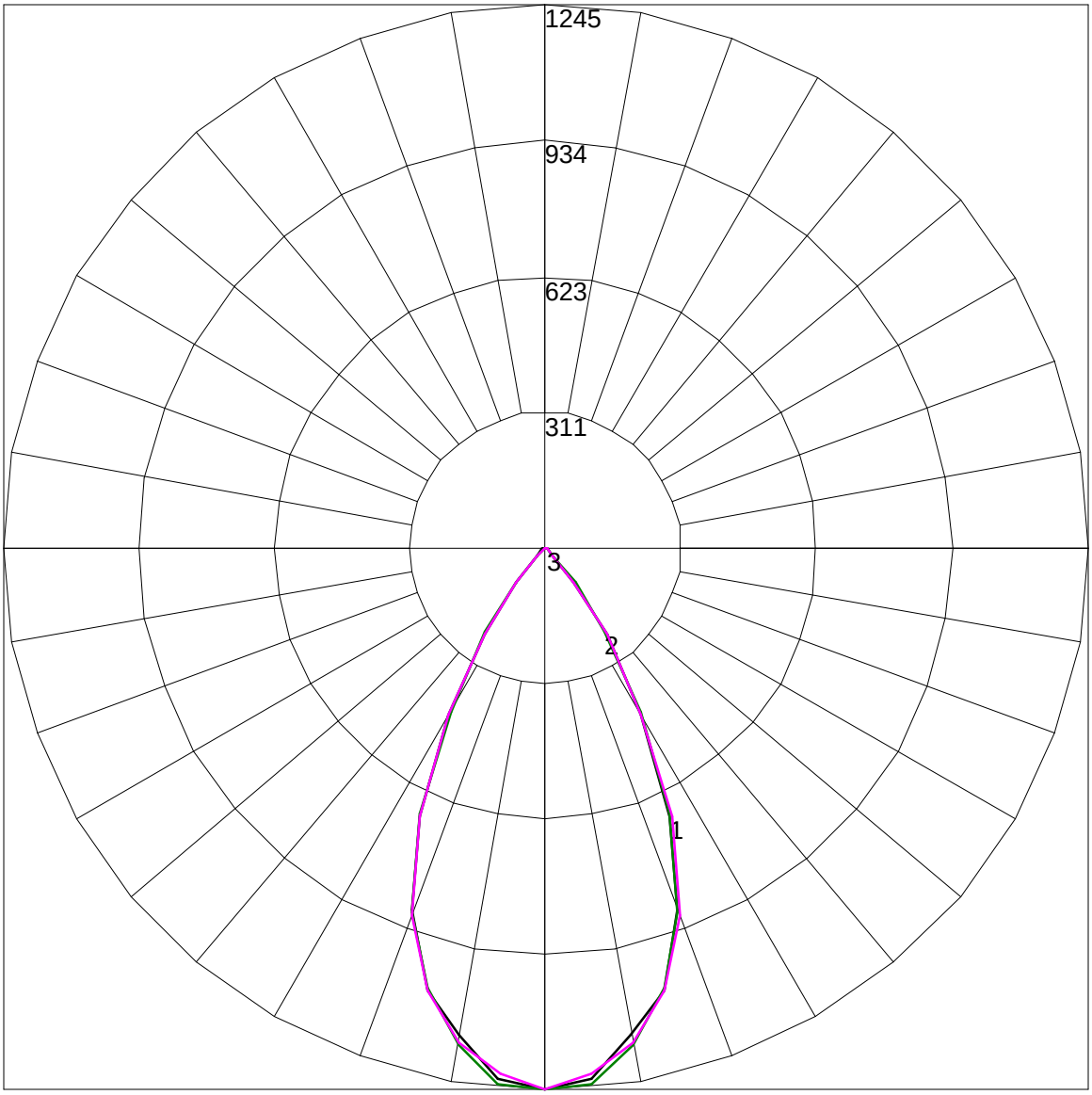
POLAR GRAPH



Maximum Candela = 1245.261 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)