

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00558 ~ PA1611LEDLX-100L35KEX-FR1611CL16-XXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00558_M-100L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 5/4/2017
[UPDATE] 5/18/2017
[LUMINAIRE] Prismatic Pendant Series LX Series
[LUMCAT] PA1611LEDLX-100L-35K-EX-xx-FR1611-CL16-xx-MW
[OTHER] Upper Refractor: FR1611 - Frosted Clear Acrylic
[OTHER] Lower Lens: CL16 Clear Prismatic Acrylic
[OTHER] Refractor and Lens engineered for LED
[OTHER] 126.7 Degree Beam Angle
[OTHER] 76% of Lumens Delivered within 20-70 Deg. Zone
[OTHER] 6% Uplight component
[OTHER] Matte White finish
[LAMP] N/A, 85+ CRI
[LAMPCAT] N/A
[OTHER] Total Luminaire Watts is approximate
[OTHER] Data based on a 60 Deg. C. case temp.
[OTHER] CCT Output Multipliers: 40K x 1.03, 30K x 0.979, 27K x 0.959
[OTHER] This report prepared by Spectrum Lighting, scaled from 130L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9207
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	81.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	3.02
Spacing Criterion (90-270)	3.02
Spacing Criterion (Diagonal)	2.70
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.34 ft (Diameter)
Luminous Width (90-270)	1.34 ft (Diameter)
Luminous Height	0.23 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19388	19388	19388
55	18979	18979	18979
65	16527	16527	16527
75	12209	12209	12209
85	8521	8521	8521

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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	616.421	616.421	616.421	616.421	616.421	616.421	616.421	616.421	616.421	616.421
5	677.119	677.119	677.119	677.119	677.119	677.119	677.119	677.119	677.119	677.119
10	844.024	844.024	844.024	844.024	844.024	844.024	844.024	844.024	844.024	844.024
15	1144.549	1144.549	1144.549	1144.549	1144.549	1144.549	1144.549	1144.549	1144.549	1144.549
20	1598.482	1598.482	1598.482	1598.482	1598.482	1598.482	1598.482	1598.482	1598.482	1598.482
25	1976.817	1976.817	1976.817	1976.817	1976.817	1976.817	1976.817	1976.817	1976.817	1976.817
30	2211.024	2211.024	2211.024	2211.024	2211.024	2211.024	2211.024	2211.024	2211.024	2211.024
35	2336.305	2336.305	2336.305	2336.305	2336.305	2336.305	2336.305	2336.305	2336.305	2336.305
40	2327.575	2327.575	2327.575	2327.575	2327.575	2327.575	2327.575	2327.575	2327.575	2327.575
45	2196.770	2196.770	2196.770	2196.770	2196.770	2196.770	2196.770	2196.770	2196.770	2196.770
50	2038.492	2038.492	2038.492	2038.492	2038.492	2038.492	2038.492	2038.492	2038.492	2038.492
55	1878.094	1878.094	1878.094	1878.094	1878.094	1878.094	1878.094	1878.094	1878.094	1878.094
60	1647.741	1647.741	1647.741	1647.741	1647.741	1647.741	1647.741	1647.741	1647.741	1647.741
65	1348.650	1348.650	1348.650	1348.650	1348.650	1348.650	1348.650	1348.650	1348.650	1348.650
70	1040.019	1040.019	1040.019	1040.019	1040.019	1040.019	1040.019	1040.019	1040.019	1040.019
75	754.118	754.118	754.118	754.118	754.118	754.118	754.118	754.118	754.118	754.118
80	515.963	515.963	515.963	515.963	515.963	515.963	515.963	515.963	515.963	515.963
85	341.325	341.325	341.325	341.325	341.325	341.325	341.325	341.325	341.325	341.325
90	222.364	222.364	222.364	222.364	222.364	222.364	222.364	222.364	222.364	222.364
95	152.226	152.226	152.226	152.226	152.226	152.226	152.226	152.226	152.226	152.226
100	123.898	123.898	123.898	123.898	123.898	123.898	123.898	123.898	123.898	123.898
105	114.713	114.713	114.713	114.713	114.713	114.713	114.713	114.713	114.713	114.713
110	108.071	108.071	108.071	108.071	108.071	108.071	108.071	108.071	108.071	108.071
115	102.220	102.220	102.220	102.220	102.220	102.220	102.220	102.220	102.220	102.220
120	90.695	90.695	90.695	90.695	90.695	90.695	90.695	90.695	90.695	90.695
125	77.132	77.132	77.132	77.132	77.132	77.132	77.132	77.132	77.132	77.132
130	64.727	64.727	64.727	64.727	64.727	64.727	64.727	64.727	64.727	64.727
135	52.813	52.813	52.813	52.813	52.813	52.813	52.813	52.813	52.813	52.813
140	41.743	41.743	41.743	41.743	41.743	41.743	41.743	41.743	41.743	41.743
145	31.744	31.744	31.744	31.744	31.744	31.744	31.744	31.744	31.744	31.744
150	24.469	24.469	24.469	24.469	24.469	24.469	24.469	24.469	24.469	24.469
155	20.543	20.543	20.543	20.543	20.543	20.543	20.543	20.543	20.543	20.543
160	21.750	21.750	21.750	21.750	21.750	21.750	21.750	21.750	21.750	21.750
165	25.587	25.587	25.587	25.587	25.587	25.587	25.587	25.587	25.587	25.587
170	28.228	28.228	28.228	28.228	28.228	28.228	28.228	28.228	28.228	28.228
175	31.266	31.266	31.266	31.266	31.266	31.266	31.266	31.266	31.266	31.266
180	34.209	34.209	34.209	34.209	34.209	34.209	34.209	34.209	34.209	34.209

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	616.421	616.421	616.421	616.421	616.421	616.421	616.421
5	677.119	677.119	677.119	677.119	677.119	677.119	677.119
10	844.024	844.024	844.024	844.024	844.024	844.024	844.024
15	1144.549	1144.549	1144.549	1144.549	1144.549	1144.549	1144.549
20	1598.482	1598.482	1598.482	1598.482	1598.482	1598.482	1598.482
25	1976.817	1976.817	1976.817	1976.817	1976.817	1976.817	1976.817
30	2211.024	2211.024	2211.024	2211.024	2211.024	2211.024	2211.024
35	2336.305	2336.305	2336.305	2336.305	2336.305	2336.305	2336.305
40	2327.575	2327.575	2327.575	2327.575	2327.575	2327.575	2327.575
45	2196.770	2196.770	2196.770	2196.770	2196.770	2196.770	2196.770
50	2038.492	2038.492	2038.492	2038.492	2038.492	2038.492	2038.492
55	1878.094	1878.094	1878.094	1878.094	1878.094	1878.094	1878.094
60	1647.741	1647.741	1647.741	1647.741	1647.741	1647.741	1647.741

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65	1348.650	1348.650	1348.650	1348.650	1348.650	1348.650	1348.650
70	1040.019	1040.019	1040.019	1040.019	1040.019	1040.019	1040.019
75	754.118	754.118	754.118	754.118	754.118	754.118	754.118
80	515.963	515.963	515.963	515.963	515.963	515.963	515.963
85	341.325	341.325	341.325	341.325	341.325	341.325	341.325
90	222.364	222.364	222.364	222.364	222.364	222.364	222.364
95	152.226	152.226	152.226	152.226	152.226	152.226	152.226
100	123.898	123.898	123.898	123.898	123.898	123.898	123.898
105	114.713	114.713	114.713	114.713	114.713	114.713	114.713
110	108.071	108.071	108.071	108.071	108.071	108.071	108.071
115	102.220	102.220	102.220	102.220	102.220	102.220	102.220
120	90.695	90.695	90.695	90.695	90.695	90.695	90.695
125	77.132	77.132	77.132	77.132	77.132	77.132	77.132
130	64.727	64.727	64.727	64.727	64.727	64.727	64.727
135	52.813	52.813	52.813	52.813	52.813	52.813	52.813
140	41.743	41.743	41.743	41.743	41.743	41.743	41.743
145	31.744	31.744	31.744	31.744	31.744	31.744	31.744
150	24.469	24.469	24.469	24.469	24.469	24.469	24.469
155	20.543	20.543	20.543	20.543	20.543	20.543	20.543
160	21.750	21.750	21.750	21.750	21.750	21.750	21.750
165	25.587	25.587	25.587	25.587	25.587	25.587	25.587
170	28.228	28.228	28.228	28.228	28.228	28.228	28.228
175	31.266	31.266	31.266	31.266	31.266	31.266	31.266
180	34.209	34.209	34.209	34.209	34.209	34.209	34.209

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Zone	Lumens	%Lamp	%Fixt
0-20	413.91	N.A.	4.50
0-30	1318.86	N.A.	14.30
0-40	2766.62	N.A.	30.00
0-60	6126.72	N.A.	66.50
0-80	8268.77	N.A.	89.80
0-90	8656.06	N.A.	94.00
10-90	8586.18	N.A.	93.30
20-40	2352.72	N.A.	25.60
20-50	4046.23	N.A.	43.90
40-70	4693.36	N.A.	51.00
60-80	2142.05	N.A.	23.30
70-80	808.80	N.A.	8.80
80-90	387.29	N.A.	4.20
90-110	299.67	N.A.	3.30
90-120	399.82	N.A.	4.30
90-130	469.46	N.A.	5.10
90-150	531.25	N.A.	5.80
90-180	551.39	N.A.	6.00
110-180	251.72	N.A.	2.70
0-180	9207.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	69.88
10-20	344.03
20-30	904.96
30-40	1447.76
40-50	1693.52
50-60	1666.58
60-70	1333.25
70-80	808.80
80-90	387.29
90-100	177.60
100-110	122.08
110-120	100.15
120-130	69.64
130-140	41.26
140-150	20.54
150-160	10.13
160-170	7.09
170-180	2.91

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

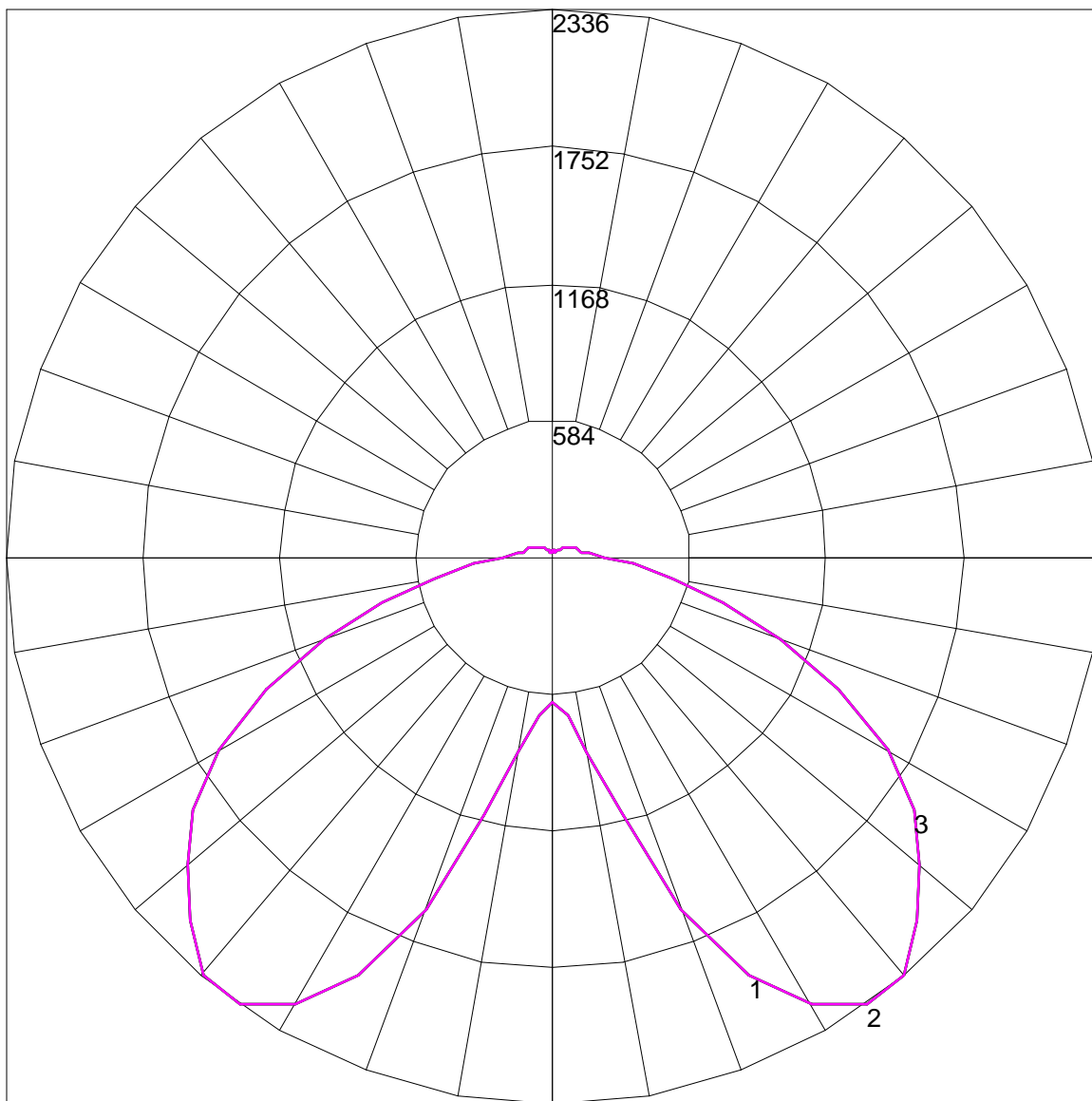
Effective Floor Cavity Reflectance 0.20

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	105	100	95	90	102	97	92	88	91	88	84	86	83	81	82	79	77	74
2	94	85	77	71	91	83	75	69	78	72	67	74	69	64	70	66	62	59
3	85	73	64	57	82	71	63	56	67	60	54	63	57	52	60	55	51	48
4	77	64	54	46	74	62	53	46	58	51	44	55	48	43	52	47	42	39
5	70	56	46	39	67	54	45	38	51	43	37	49	42	36	46	40	35	33
6	64	49	40	33	61	48	39	32	45	37	31	43	36	31	41	35	30	27
7	59	44	34	28	56	43	34	27	41	33	27	39	32	26	37	30	26	23
8	54	40	30	24	52	39	30	24	37	29	23	35	28	23	33	27	22	20
9	50	36	27	21	48	35	26	21	33	26	20	32	25	20	30	24	19	17
10	47	33	24	18	45	32	24	18	30	23	18	29	22	18	28	22	17	15

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POLAR GRAPH



Maximum Candela = 2336.305 Located At Horizontal Angle = 0, Vertical Angle = 35

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (45 - 225)

3 - Vertical Plane Through Horizontal Angles (90 - 270)