

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00558 ~ PA1611LEDLX-130L35KEX-FR1611CL16-XXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00558  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 5/4/2017  
[UPDATE] 5/18/2017  
[LUMINAIRE] Prismatic Pendant Series LX Series  
[LUMCAT] PA1611LEDLX-130L-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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12112
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	103.89
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00558 ~ PA1611LEDLX-130L35KEX-FR1611CL16-XXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25504	25504	25504
55	24966	24966	24966
65	21741	21741	21741
75	16060	16060	16060
85	11209	11209	11209

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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	810.867	810.867	810.867	810.867	810.867	810.867	810.867	810.867	810.867	810.867
5	890.712	890.712	890.712	890.712	890.712	890.712	890.712	890.712	890.712	890.712
10	1110.266	1110.266	1110.266	1110.266	1110.266	1110.266	1110.266	1110.266	1110.266	1110.266
15	1505.589	1505.589	1505.589	1505.589	1505.589	1505.589	1505.589	1505.589	1505.589	1505.589
20	2102.712	2102.712	2102.712	2102.712	2102.712	2102.712	2102.712	2102.712	2102.712	2102.712
25	2600.391	2600.391	2600.391	2600.391	2600.391	2600.391	2600.391	2600.391	2600.391	2600.391
30	2908.476	2908.476	2908.476	2908.476	2908.476	2908.476	2908.476	2908.476	2908.476	2908.476
35	3073.277	3073.277	3073.277	3073.277	3073.277	3073.277	3073.277	3073.277	3073.277	3073.277
40	3061.793	3061.793	3061.793	3061.793	3061.793	3061.793	3061.793	3061.793	3061.793	3061.793
45	2889.726	2889.726	2889.726	2889.726	2889.726	2889.726	2889.726	2889.726	2889.726	2889.726
50	2681.520	2681.520	2681.520	2681.520	2681.520	2681.520	2681.520	2681.520	2681.520	2681.520
55	2470.526	2470.526	2470.526	2470.526	2470.526	2470.526	2470.526	2470.526	2470.526	2470.526
60	2167.510	2167.510	2167.510	2167.510	2167.510	2167.510	2167.510	2167.510	2167.510	2167.510
65	1774.072	1774.072	1774.072	1774.072	1774.072	1774.072	1774.072	1774.072	1774.072	1774.072
70	1368.086	1368.086	1368.086	1368.086	1368.086	1368.086	1368.086	1368.086	1368.086	1368.086
75	992.000	992.000	992.000	992.000	992.000	992.000	992.000	992.000	992.000	992.000
80	678.720	678.720	678.720	678.720	678.720	678.720	678.720	678.720	678.720	678.720
85	448.994	448.994	448.994	448.994	448.994	448.994	448.994	448.994	448.994	448.994
90	292.507	292.507	292.507	292.507	292.507	292.507	292.507	292.507	292.507	292.507
95	200.245	200.245	200.245	200.245	200.245	200.245	200.245	200.245	200.245	200.245
100	162.981	162.981	162.981	162.981	162.981	162.981	162.981	162.981	162.981	162.981
105	150.898	150.898	150.898	150.898	150.898	150.898	150.898	150.898	150.898	150.898
110	142.161	142.161	142.161	142.161	142.161	142.161	142.161	142.161	142.161	142.161
115	134.465	134.465	134.465	134.465	134.465	134.465	134.465	134.465	134.465	134.465
120	119.304	119.304	119.304	119.304	119.304	119.304	119.304	119.304	119.304	119.304
125	101.463	101.463	101.463	101.463	101.463	101.463	101.463	101.463	101.463	101.463
130	85.145	85.145	85.145	85.145	85.145	85.145	85.145	85.145	85.145	85.145
135	69.473	69.473	69.473	69.473	69.473	69.473	69.473	69.473	69.473	69.473
140	54.910	54.910	54.910	54.910	54.910	54.910	54.910	54.910	54.910	54.910
145	41.758	41.758	41.758	41.758	41.758	41.758	41.758	41.758	41.758	41.758
150	32.188	32.188	32.188	32.188	32.188	32.188	32.188	32.188	32.188	32.188
155	27.023	27.023	27.023	27.023	27.023	27.023	27.023	27.023	27.023	27.023
160	28.611	28.611	28.611	28.611	28.611	28.611	28.611	28.611	28.611	28.611
165	33.658	33.658	33.658	33.658	33.658	33.658	33.658	33.658	33.658	33.658
170	37.132	37.132	37.132	37.132	37.132	37.132	37.132	37.132	37.132	37.132
175	41.129	41.129	41.129	41.129	41.129	41.129	41.129	41.129	41.129	41.129
180	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000

**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	810.867	810.867	810.867	810.867	810.867	810.867	810.867
5	890.712	890.712	890.712	890.712	890.712	890.712	890.712
10	1110.266	1110.266	1110.266	1110.266	1110.266	1110.266	1110.266
15	1505.589	1505.589	1505.589	1505.589	1505.589	1505.589	1505.589
20	2102.712	2102.712	2102.712	2102.712	2102.712	2102.712	2102.712
25	2600.391	2600.391	2600.391	2600.391	2600.391	2600.391	2600.391
30	2908.476	2908.476	2908.476	2908.476	2908.476	2908.476	2908.476
35	3073.277	3073.277	3073.277	3073.277	3073.277	3073.277	3073.277
40	3061.793	3061.793	3061.793	3061.793	3061.793	3061.793	3061.793
45	2889.726	2889.726	2889.726	2889.726	2889.726	2889.726	2889.726
50	2681.520	2681.520	2681.520	2681.520	2681.520	2681.520	2681.520
55	2470.526	2470.526	2470.526	2470.526	2470.526	2470.526	2470.526
60	2167.510	2167.510	2167.510	2167.510	2167.510	2167.510	2167.510

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<b>65</b>	1774.072	1774.072	1774.072	1774.072	1774.072	1774.072	1774.072
<b>70</b>	1368.086	1368.086	1368.086	1368.086	1368.086	1368.086	1368.086
<b>75</b>	992.000	992.000	992.000	992.000	992.000	992.000	992.000
<b>80</b>	678.720	678.720	678.720	678.720	678.720	678.720	678.720
<b>85</b>	448.994	448.994	448.994	448.994	448.994	448.994	448.994
<b>90</b>	292.507	292.507	292.507	292.507	292.507	292.507	292.507
<b>95</b>	200.245	200.245	200.245	200.245	200.245	200.245	200.245
<b>100</b>	162.981	162.981	162.981	162.981	162.981	162.981	162.981
<b>105</b>	150.898	150.898	150.898	150.898	150.898	150.898	150.898
<b>110</b>	142.161	142.161	142.161	142.161	142.161	142.161	142.161
<b>115</b>	134.465	134.465	134.465	134.465	134.465	134.465	134.465
<b>120</b>	119.304	119.304	119.304	119.304	119.304	119.304	119.304
<b>125</b>	101.463	101.463	101.463	101.463	101.463	101.463	101.463
<b>130</b>	85.145	85.145	85.145	85.145	85.145	85.145	85.145
<b>135</b>	69.473	69.473	69.473	69.473	69.473	69.473	69.473
<b>140</b>	54.910	54.910	54.910	54.910	54.910	54.910	54.910
<b>145</b>	41.758	41.758	41.758	41.758	41.758	41.758	41.758
<b>150</b>	32.188	32.188	32.188	32.188	32.188	32.188	32.188
<b>155</b>	27.023	27.023	27.023	27.023	27.023	27.023	27.023
<b>160</b>	28.611	28.611	28.611	28.611	28.611	28.611	28.611
<b>165</b>	33.658	33.658	33.658	33.658	33.658	33.658	33.658
<b>170</b>	37.132	37.132	37.132	37.132	37.132	37.132	37.132
<b>175</b>	41.129	41.129	41.129	41.129	41.129	41.129	41.129
<b>180</b>	45.000	45.000	45.000	45.000	45.000	45.000	45.000

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Zone	Lumens	%Lamp	%Fixt
0-20	544.47	N.A.	4.50
0-30	1734.89	N.A.	14.30
0-40	3639.33	N.A.	30.00
0-60	8059.35	N.A.	66.50
0-80	10877.09	N.A.	89.80
0-90	11386.56	N.A.	94.00
10-90	11294.63	N.A.	93.30
20-40	3094.87	N.A.	25.60
20-50	5322.59	N.A.	43.90
40-70	6173.84	N.A.	51.00
60-80	2817.75	N.A.	23.30
70-80	1063.93	N.A.	8.80
80-90	509.46	N.A.	4.20
90-110	394.20	N.A.	3.30
90-120	525.94	N.A.	4.30
90-130	617.54	N.A.	5.10
90-150	698.83	N.A.	5.80
90-180	725.32	N.A.	6.00
110-180	331.12	N.A.	2.70
0-180	12111.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	91.92
10-20	452.55
20-30	1190.42
30-40	1904.45
40-50	2227.72
50-60	2192.3
60-70	1753.82
70-80	1063.93
80-90	509.46
90-100	233.62
100-110	160.59
110-120	131.74
120-130	91.60
130-140	54.27
140-150	27.02
150-160	13.33
160-170	9.33
170-180	3.83

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

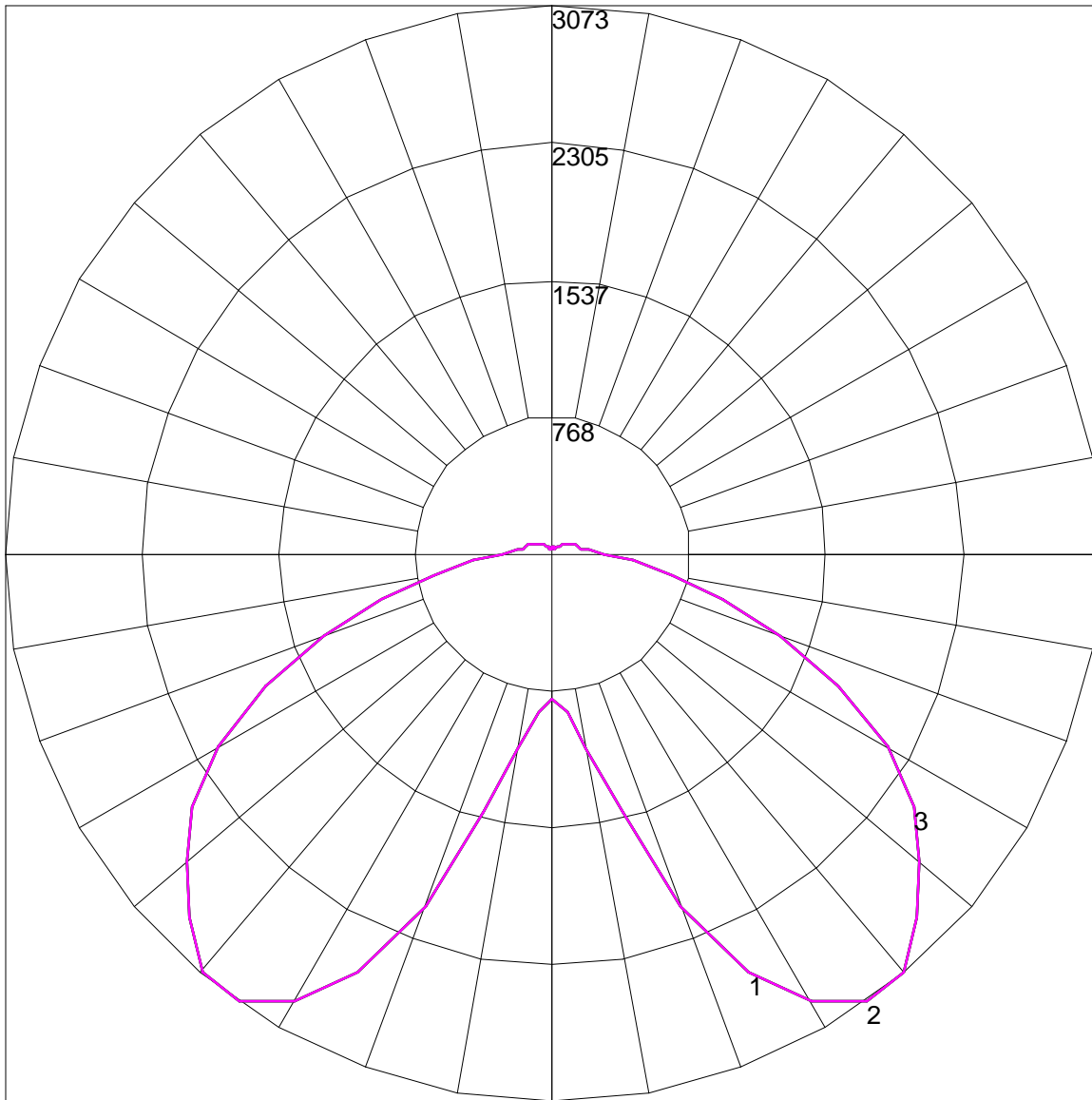
Effective Floor Cavity Reflectance 0.20

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 = 3073.277 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)