



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BL726LEDHTMOASYWT30120-277V\_S.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TESTLAB] Photopia 2019.0.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)  
 [ISSUE DATE]  
 [TEST DATE] Thu Dec 20 08:32:34 2018  
 [TEST] 1  
 [MANUFAC] BEGHELLI  
 [LUMCAT]  
 [LUMINAIRE] BL726LEDHTMOASYWT30120-277V  
 [LAMP] LED 0.3W White 2323 package (65mA)  
 [LAMPCAT] SPMWHT221MD5WAT0S0  
 [OTHER]  
 IESNA:LM-63-2002  
 [TEST] 6,552  
 [TESTLAB] CSA Group  
 [ISSUE DATE] 7/24/2013 1:09:24 PM  
 [OTHER] Luminous shape: Rectangle  
 [OTHER] Luminous dimensions (feet)  
 [OTHER] 0 - 180 Axis: 4.2  
 [OTHER] 90 - 270 Axis: 0.6  
 [OTHER] Height: 0.1

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7474
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.10
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.54
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.01 ft
Luminous Width (90-270)	0.99 ft
Luminous Height	0.36 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	50185	43208	18428
55	23604	22712	10561
65	7732	7536	4432
75	2370	2108	1534
85	399	350	411

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**CANDELA TABULATION**

	<b>0</b>	<b>10</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>
<b>0.0</b>	2790.55	2790.55	2790.55	2790.55	2790.55	2790.55	2790.55	2790.55	2790.55	2790.55
<b>2.5</b>	2948.88	2946.20	2909.83	2919.64	2895.66	2827.73	2768.07	2780.22	2646.45	2701.53
<b>5.0</b>	3175.35	3165.97	3186.88	3125.37	3044.79	3025.72	2916.06	2814.09	2650.91	2605.83
<b>7.5</b>	3535.77	3504.36	3475.08	3456.24	3312.77	3229.33	3066.97	2932.14	2805.64	2593.15
<b>10.0</b>	3867.35	3876.72	3816.40	3735.45	3634.93	3455.29	3253.88	3096.36	2867.64	2623.74
<b>12.5</b>	4285.40	4240.28	4177.83	4049.35	3903.27	3705.79	3473.42	3206.12	2929.93	2615.45
<b>15.0</b>	4661.61	4558.48	4515.04	4353.53	4175.39	3941.95	3694.18	3354.00	3013.52	2643.39
<b>17.5</b>	5008.56	4971.46	4860.85	4738.79	4491.46	4229.85	3853.94	3495.38	3079.57	2659.41
<b>20.0</b>	5362.07	5292.17	5231.73	5020.06	4779.40	4446.12	4060.77	3587.07	3105.77	2639.89
<b>22.5</b>	5573.17	5574.06	5460.46	5277.42	5063.86	4659.30	4222.57	3719.74	3177.83	2611.99
<b>25.0</b>	5864.70	5857.24	5743.35	5522.02	5237.90	4859.07	4363.84	3781.61	3181.16	2555.97
<b>27.5</b>	6044.49	6042.27	5957.23	5737.48	5421.92	4985.89	4491.31	3859.53	3176.92	2536.11
<b>30.0</b>	6155.69	6197.97	6129.37	5895.45	5545.51	5107.76	4549.72	3879.01	3180.29	2454.36
<b>32.5</b>	6269.88	6257.33	6157.64	5976.41	5650.29	5184.71	4614.35	3897.02	3151.63	2366.48
<b>35.0</b>	6234.72	6225.86	6162.69	5952.63	5642.76	5198.94	4613.10	3914.88	3093.51	2258.20
<b>37.5</b>	6030.80	6066.21	5994.93	5837.35	5519.75	5091.10	4534.65	3810.90	2967.76	2166.37
<b>40.0</b>	5629.24	5691.84	5680.13	5532.00	5311.33	4889.76	4358.20	3662.14	2848.02	2018.40
<b>42.5</b>	5156.73	5161.60	5189.93	5095.30	4921.37	4564.49	4079.20	3419.82	2635.13	1849.82
<b>45.0</b>	4497.86	4549.86	4581.55	4583.28	4470.28	4156.13	3744.01	3116.87	2397.23	1661.46
<b>47.5</b>	3853.02	3869.18	3935.17	3940.54	3910.59	3685.43	3324.86	2779.79	2119.95	1472.57
<b>50.0</b>	3149.35	3172.52	3279.21	3315.36	3314.65	3162.96	2853.55	2387.66	1818.47	1264.18
<b>52.5</b>	2485.75	2538.87	2611.67	2681.02	2708.82	2619.27	2400.21	1984.67	1524.39	1058.75
<b>55.0</b>	1910.38	1934.42	2014.20	2085.56	2115.74	2097.26	1913.05	1603.44	1225.31	861.26
<b>57.5</b>	1413.36	1432.87	1499.11	1562.08	1622.95	1601.51	1482.24	1247.02	952.50	679.15
<b>60.0</b>	1015.10	1040.37	1081.08	1145.50	1199.30	1208.27	1117.98	944.16	718.38	536.51
<b>62.5</b>	739.32	749.59	779.29	826.09	865.42	884.45	826.74	704.48	548.48	403.69
<b>65.0</b>	539.59	526.98	557.57	588.80	620.20	628.69	593.78	507.34	402.41	312.30
<b>67.5</b>	377.00	377.57	393.46	416.58	442.62	451.05	430.58	372.21	291.46	230.68
<b>70.0</b>	271.99	269.17	281.59	298.38	309.52	313.55	299.73	262.70	211.93	167.64
<b>72.5</b>	187.29	190.53	197.83	207.14	217.45	219.62	203.76	182.01	152.13	123.53
<b>75.0</b>	133.96	134.39	140.43	147.22	148.06	148.96	143.03	128.57	108.87	87.79
<b>77.5</b>	92.30	95.59	95.01	98.72	102.50	101.94	97.16	89.08	77.03	64.54
<b>80.0</b>	61.50	62.81	63.33	64.88	68.29	67.89	63.72	60.31	53.45	47.10
<b>82.5</b>	37.14	36.90	38.79	39.89	38.99	40.45	40.56	36.82	34.45	31.30
<b>85.0</b>	16.56	18.52	18.82	20.39	19.99	19.19	20.86	18.91	17.19	17.36
<b>87.5</b>	1.63	1.60	2.10	2.48	2.92	3.44	3.86	4.85	4.51	4.22
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01
<b>92.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>95.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>97.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>100.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>102.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>105.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>107.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>110.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>112.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>115.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>117.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>120.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>122.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>125.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>127.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>130.0</b>	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.00
<b>132.5</b>	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**CANDELA TABULATION - (Cont.)**

135.0	0.00	0.15	0.18	0.03	0.00	0.00	0.06	0.00	0.00	0.00
137.5	0.07	0.13	0.22	0.04	0.06	0.19	0.03	0.00	0.00	0.00
140.0	0.01	0.01	0.08	0.04	0.10	0.23	0.10	0.01	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.08	0.11	0.09	0.00	0.00	0.00
145.0	0.00	0.00	0.02	0.00	0.00	0.07	0.00	0.00	0.00	0.00
147.5	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.06	0.03	0.00	0.01	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.01	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert.  
Angles**

**Horizontal Angles**

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>
0.0	2790.55	2790.55	2790.55	2790.55	2790.55	2790.55	2790.55	2790.55	2790.55
2.5	2603.99	2499.56	2444.54	2431.48	2386.55	2321.62	2289.03	2264.65	2383.26
5.0	2509.90	2390.81	2308.84	2133.36	2112.03	2052.16	2025.19	1974.22	1988.85
7.5	2406.97	2260.35	2111.79	1966.59	1845.81	1716.98	1684.57	1654.06	1648.39
10.0	2395.37	2159.36	1946.86	1754.17	1617.92	1523.86	1435.86	1355.40	1399.81
12.5	2361.33	2043.96	1819.56	1575.48	1401.73	1288.46	1183.23	1134.06	1126.63
15.0	2268.49	1922.29	1644.06	1380.20	1211.99	1067.93	977.31	916.12	901.30
17.5	2257.16	1822.81	1501.77	1229.92	1022.34	906.88	834.46	781.13	759.71
20.0	2153.45	1710.33	1361.74	1086.75	893.27	780.44	728.28	696.74	705.69
22.5	2050.78	1578.50	1213.90	951.97	780.85	702.47	657.58	655.03	655.48
25.0	1955.62	1468.43	1089.14	841.28	726.38	668.60	646.27	644.00	642.96
27.5	1878.47	1324.24	966.21	764.69	688.66	659.19	663.08	658.55	643.20
30.0	1761.77	1222.81	889.92	727.42	673.03	673.10	674.28	676.08	673.46
32.5	1652.40	1123.76	820.22	698.61	680.26	685.84	695.92	707.40	712.49
35.0	1549.37	1023.90	759.01	688.35	689.62	703.15	723.65	733.01	738.63
37.5	1433.02	929.75	726.57	675.13	692.95	705.13	725.36	735.38	745.35
40.0	1301.92	852.60	674.03	653.77	691.19	708.71	730.01	720.55	719.89
42.5	1193.29	776.13	641.58	629.18	654.29	686.17	692.27	691.86	686.33
45.0	1049.83	702.51	590.21	603.93	637.82	649.94	649.98	652.54	636.49
47.5	933.00	619.44	547.79	559.83	591.07	596.55	586.50	579.22	578.59
50.0	808.76	556.16	494.51	511.57	525.26	526.87	523.25	512.63	504.69
52.5	683.77	489.24	429.95	450.44	463.54	451.18	439.99	428.59	418.34
55.0	570.56	410.81	375.79	382.90	385.21	379.75	364.18	352.15	341.96
57.5	462.71	342.42	313.51	319.29	316.11	304.43	288.42	275.33	272.84
60.0	370.71	284.70	254.59	257.19	251.63	241.95	229.41	223.82	212.35
62.5	292.89	227.14	209.50	201.32	196.56	185.73	177.21	171.05	170.30
65.0	225.96	184.77	165.24	156.87	150.45	143.01	138.89	131.90	133.36
67.5	177.10	143.54	128.74	124.60	116.67	114.65	105.65	105.03	100.60
70.0	135.40	114.32	100.86	98.86	91.61	85.82	85.60	78.57	78.23
72.5	100.51	85.38	76.73	74.44	71.54	68.68	63.92	62.69	61.47
75.0	75.76	64.89	60.61	56.86	56.26	53.59	50.52	51.71	48.23
77.5	57.34	50.73	44.83	44.34	42.29	43.11	39.82	40.00	40.07
80.0	41.58	36.46	35.03	34.11	34.42	32.33	33.38	32.94	30.20

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**CANDELA TABULATION - (Cont.)**

82.5	28.36	26.32	26.19	25.38	24.79	25.89	26.67	26.52	25.53
85.0	16.17	15.55	15.84	14.62	16.07	16.05	15.76	17.82	17.92
87.5	4.34	4.39	4.23	4.39	5.29	4.81	4.71	5.59	5.12
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.01
130.0	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
132.5	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
160.0	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1018.48	N.A.	13.60
0-30	2365.45	N.A.	31.60
0-40	4202.07	N.A.	56.20
0-60	6968.96	N.A.	93.20
0-80	7452.65	N.A.	99.70
0-90	7473.89	N.A.	100.00
10-90	7224.96	N.A.	96.70
20-40	3183.6	N.A.	42.60
20-50	4932.4	N.A.	66.00
40-70	3140.17	N.A.	42.00
60-80	483.69	N.A.	6.50
70-80	110.41	N.A.	1.50
80-90	21.24	N.A.	0.30
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	0.02	N.A.	0.00
90-180	0.03	N.A.	0.00
110-180	0.03	N.A.	0.00
0-180	7473.91	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	248.93
10-20	769.55
20-30	1346.97
30-40	1836.62
40-50	1748.81
50-60	1018.08
60-70	373.28
70-80	110.41
80-90	21.24
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.02
140-150	0.01
150-160	0.00
160-170	0.00
170-180	0.00

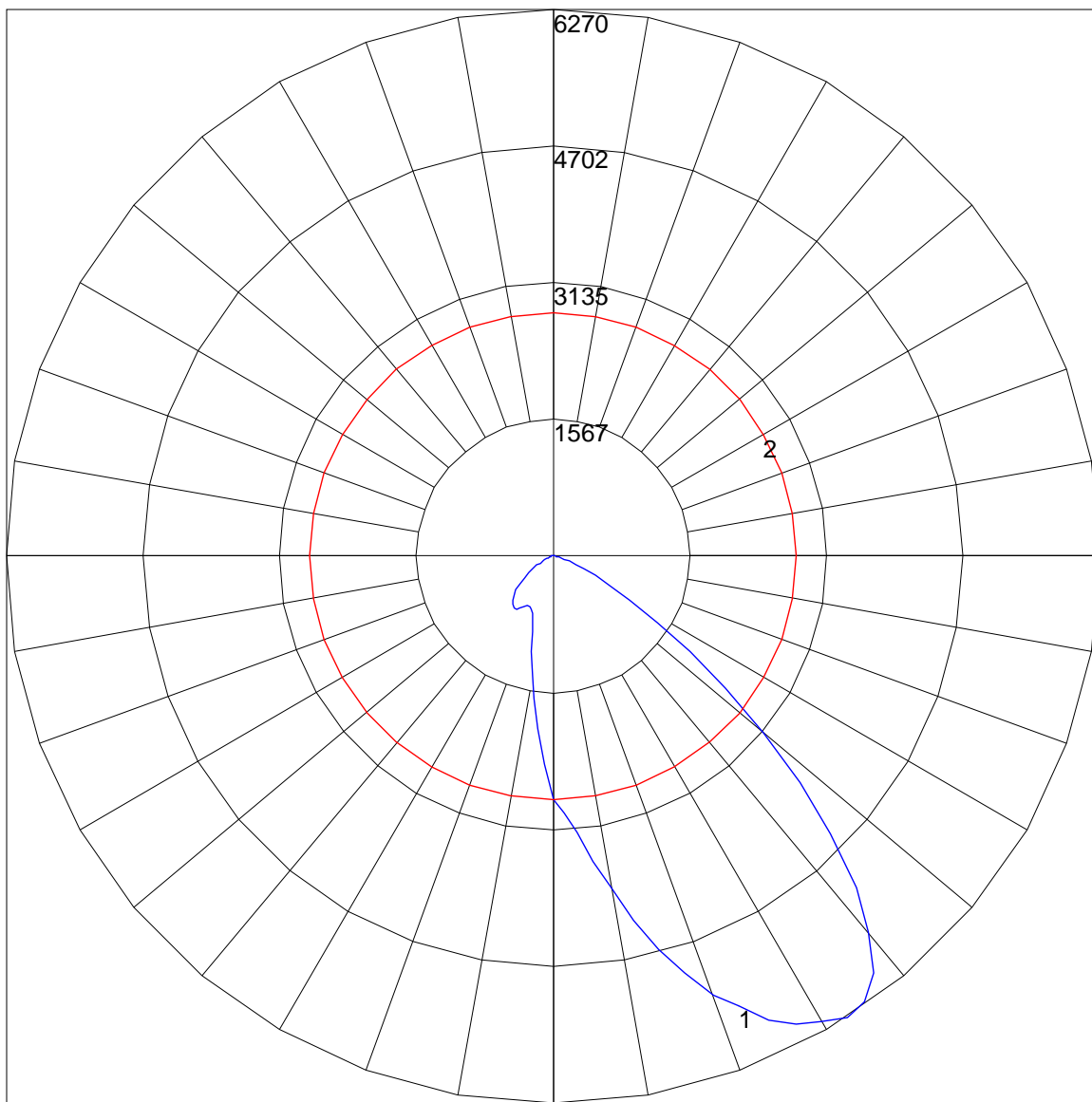
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BL726LEDHTMOASYWT30120-277V\_S.IES**

**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	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	81	84	81	79	77
3	95	86	78	73	92	84	78	72	81	76	71	79	74	70	76	72	69	67
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

POLAR GRAPH



Maximum Candela = 6269.88 Located At Horizontal Angle = 0, Vertical Angle = 32.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)