



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HBIA24-LED75DMVFR35 LLIA000974-004.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA000974-004A
 [TESTLAB] LightLab International Allentown, LLC
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA
 [LUMCAT] HBIA24-LED75DMVFR35
 [LUMINAIRE] Catalog Number: HBIA24-LED75DMVFR35
 [MORE] Pendant/surface mounted, formed steel housing, formed aluminum LED mounting plates, frosted plastic enclosures.
 [MORE] 312 white LEDs, two ULT Everline M18CC835D156N2S50C LED boards with 156 LEDs each.
 [MORE] One ULT Everline D23CC90UNVTW-F LED driver set at 1740mA
 [MORE] 120.0Vac, 60.00Hz, 0.6096A, 72.95W, 0.997PF, 6.2%THD(i)
 [OTHER] Absolute test - lamp lumens value set to -1
 [MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.
 [MORE] The sample was tested at a distance of 9.5m.
 [MORE] This IES file created by LightLab/LSA Report program version 3.820a.
 [DATE] This file created: Thursday, April 26, 2018 2:42:19 PM
 [ISSUE DATE] Thursday, April 26, 2018 2:42:19 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8319
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	72.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.58 m
Luminous Width (90-270)	0.29 m
Luminous Height	0.02 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13258	13480	14530
55	12171	12679	14317
65	10728	12194	14740
75	8393	12654	15986
85	3814	15117	23319

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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>
0.0	2692.77	2692.77	2692.77	2692.77	2692.77
0.5	2712.41	2698.47	2677.86	2690.69	2694.34
1.0	2711.77	2698.22	2677.54	2690.49	2693.94
1.5	2711.03	2697.50	2677.01	2690.02	2693.49
2.0	2709.95	2696.53	2676.19	2689.32	2692.88
2.5	2708.44	2695.24	2675.13	2688.44	2691.93
3.0	2706.81	2693.68	2673.86	2687.42	2690.78
3.5	2704.76	2691.81	2672.29	2686.23	2689.73
4.0	2702.19	2689.47	2670.58	2684.72	2688.14
4.5	2699.59	2687.05	2668.60	2683.15	2686.39
5.0	2696.73	2684.30	2666.37	2681.38	2684.60
5.5	2693.21	2681.18	2663.80	2679.13	2682.55
6.0	2689.64	2677.82	2661.09	2676.67	2680.32
6.5	2685.74	2674.25	2657.99	2674.24	2677.57
7.0	2681.59	2670.30	2654.73	2671.50	2674.95
7.5	2676.85	2666.01	2651.13	2668.59	2672.12
8.0	2672.16	2661.54	2647.44	2665.52	2668.99
8.5	2666.95	2656.61	2643.21	2662.10	2665.38
9.0	2661.40	2651.60	2638.99	2658.53	2661.90
9.5	2655.94	2646.25	2634.48	2654.78	2658.21
10.0	2649.89	2640.46	2629.77	2650.69	2654.28
10.5	2643.54	2634.55	2624.79	2646.40	2650.04
11.0	2636.87	2628.06	2619.39	2641.80	2645.15
11.5	2629.93	2621.58	2613.84	2636.84	2639.98
12.0	2622.69	2614.77	2608.03	2631.46	2634.59
12.5	2615.36	2607.72	2601.97	2626.02	2629.32
13.0	2607.62	2600.17	2595.58	2620.00	2623.47
13.5	2599.67	2592.66	2589.08	2613.99	2617.65
14.0	2591.61	2584.97	2582.33	2607.91	2611.72
14.5	2582.68	2576.60	2575.16	2601.38	2605.48
15.0	2574.00	2568.26	2567.71	2594.80	2598.77
15.5	2564.73	2559.36	2559.64	2587.77	2592.10
16.0	2555.40	2550.45	2551.48	2580.62	2585.37
16.5	2545.47	2540.97	2543.05	2573.22	2578.32
17.0	2535.57	2531.49	2534.54	2565.78	2571.20
17.5	2525.09	2521.52	2525.52	2557.90	2563.74
18.0	2514.69	2511.60	2516.50	2550.37	2556.25
18.5	2503.92	2501.40	2507.36	2542.49	2548.62
19.0	2492.88	2490.67	2497.75	2534.14	2540.66
19.5	2481.73	2480.02	2487.97	2525.78	2532.62
20.0	2469.97	2468.83	2477.84	2516.86	2524.26
20.5	2458.26	2457.58	2467.68	2508.05	2515.79
21.0	2446.03	2445.85	2457.19	2498.91	2506.85
21.5	2434.07	2434.27	2446.69	2489.81	2498.09
22.0	2421.32	2421.92	2435.80	2480.21	2488.71
22.5	2408.73	2409.89	2424.93	2470.50	2479.56
23.0	2396.02	2397.54	2413.88	2460.70	2470.18
23.5	2382.61	2384.54	2402.35	2450.56	2460.26
24.0	2369.41	2371.72	2390.74	2440.31	2450.34
24.5	2355.77	2358.31	2378.68	2429.52	2440.12
25.0	2341.86	2344.95	2366.68	2418.89	2429.89
25.5	2327.74	2331.09	2354.22	2407.71	2419.06
26.0	2313.47	2317.36	2341.84	2396.66	2408.31
26.5	2298.83	2303.03	2329.06	2385.14	2397.21

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27.0	2284.45	2288.89	2316.29	2373.49	2386.09
27.5	2269.67	2274.38	2303.41	2361.86	2374.82
28.0	2254.60	2259.73	2289.82	2349.54	2363.22
28.5	2239.34	2244.89	2276.61	2337.42	2351.40
29.0	2223.59	2229.45	2262.53	2324.65	2339.32
29.5	2208.04	2214.29	2248.94	2312.05	2327.21
30.0	2192.06	2198.69	2234.57	2299.08	2314.62
30.5	2176.17	2183.16	2220.55	2286.06	2302.20
31.0	2159.79	2167.08	2205.92	2272.74	2289.14
31.5	2143.46	2151.20	2191.45	2259.36	2276.39
32.0	2127.10	2135.31	2176.80	2245.75	2263.45
32.5	2110.21	2118.63	2161.61	2231.65	2249.95
33.0	2093.36	2102.37	2146.55	2217.75	2236.43
33.5	2076.35	2085.35	2130.99	2203.24	2222.67
34.0	2058.87	2068.70	2115.55	2188.93	2208.83
34.5	2041.84	2051.52	2099.87	2174.10	2194.51
35.0	2024.18	2034.32	2083.91	2159.28	2180.37
35.5	2006.68	2017.19	2067.97	2144.44	2166.05
36.0	1989.10	1999.77	2051.90	2129.21	2151.21
36.5	1971.52	1982.54	2035.99	2114.29	2136.89
37.0	1953.27	1964.47	2019.18	2098.58	2121.76
37.5	1935.39	1946.86	2002.75	2083.04	2106.78
38.0	1917.01	1928.73	1985.79	2066.88	2091.37
38.5	1898.87	1910.85	1969.11	2051.20	2076.12
39.0	1880.16	1892.41	1951.87	2034.99	2060.52
39.5	1861.81	1874.30	1934.88	2018.90	2045.13
40.0	1842.84	1855.67	1917.38	2002.48	2029.18
40.5	1824.35	1837.31	1900.11	1986.16	2013.62
41.0	1805.87	1818.82	1882.69	1969.76	1998.06
41.5	1786.46	1799.97	1864.99	1953.06	1981.64
42.0	1767.65	1781.18	1847.26	1936.34	1965.79
42.5	1748.32	1762.01	1829.19	1919.18	1949.24
43.0	1729.04	1743.22	1811.36	1902.45	1933.10
43.5	1709.88	1723.81	1793.10	1885.26	1916.51
44.0	1690.48	1704.87	1775.14	1868.26	1900.08
44.5	1670.71	1685.30	1756.60	1850.88	1883.38
45.0	1651.33	1666.13	1738.41	1833.95	1866.82
45.5	1631.92	1647.03	1720.24	1816.83	1850.38
46.0	1611.84	1627.22	1701.48	1799.29	1833.39
46.5	1592.29	1607.89	1683.12	1782.08	1816.76
47.0	1572.34	1588.04	1664.19	1764.12	1799.55
47.5	1552.35	1568.49	1645.71	1746.97	1782.96
48.0	1532.11	1548.51	1626.73	1729.34	1765.85
48.5	1512.19	1528.89	1608.17	1711.74	1749.19
49.0	1491.82	1508.70	1589.09	1693.99	1732.03
49.5	1471.75	1488.92	1570.34	1676.48	1715.38
50.0	1451.46	1469.10	1551.69	1658.95	1698.59
50.5	1431.33	1448.80	1532.65	1641.44	1681.69
51.0	1411.02	1428.90	1513.83	1623.83	1664.93
51.5	1390.24	1408.47	1494.76	1606.07	1647.82
52.0	1370.12	1388.54	1476.08	1588.81	1631.26
52.5	1349.24	1368.03	1456.91	1571.20	1614.21
53.0	1328.89	1348.01	1438.33	1553.99	1597.67
53.5	1307.94	1327.39	1419.16	1536.35	1580.69
54.0	1287.54	1307.26	1400.54	1519.36	1564.20
54.5	1267.06	1287.16	1381.98	1502.28	1547.83

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55.0	1246.28	1266.43	1362.94	1484.83	1531.14
55.5	1225.36	1246.29	1344.48	1468.09	1514.62
56.0	1204.42	1225.70	1325.65	1450.79	1497.90
56.5	1183.75	1205.48	1307.23	1433.95	1481.64
57.0	1162.54	1184.75	1288.58	1416.91	1464.95
57.5	1141.91	1164.49	1270.37	1400.14	1448.81
58.0	1120.75	1143.85	1251.82	1383.19	1432.34
58.5	1100.03	1123.63	1233.82	1366.60	1416.16
59.0	1079.26	1103.33	1216.06	1350.06	1400.29
59.5	1058.30	1082.69	1197.79	1333.49	1383.84
60.0	1037.45	1062.57	1180.16	1317.10	1368.05
60.5	1016.22	1042.04	1162.38	1300.58	1351.77
61.0	995.53	1021.91	1144.94	1284.52	1336.03
61.5	974.25	1001.60	1127.30	1268.09	1319.96
62.0	953.59	981.58	1110.20	1252.23	1304.37
62.5	932.02	961.13	1092.69	1235.90	1288.28
63.0	911.32	941.36	1075.89	1220.18	1272.87
63.5	890.50	921.51	1059.16	1204.54	1257.38
64.0	869.72	901.80	1042.37	1188.81	1241.91
64.5	848.55	881.84	1025.72	1173.35	1226.17
65.0	827.48	862.18	1009.27	1157.80	1211.02
65.5	806.69	842.73	993.02	1142.54	1195.54
66.0	785.21	823.09	976.56	1126.97	1180.24
66.5	764.60	803.68	960.67	1111.80	1164.88
67.0	743.37	784.38	944.54	1096.68	1149.61
67.5	722.55	765.35	928.84	1081.61	1134.55
68.0	701.94	746.78	913.35	1066.79	1119.70
68.5	680.81	727.73	897.59	1051.65	1104.13
69.0	660.17	709.25	882.33	1036.81	1089.09
69.5	639.19	690.53	866.79	1021.73	1073.22
70.0	618.77	672.48	851.78	1006.96	1057.51
70.5	597.60	654.08	836.42	991.46	1040.58
71.0	577.28	636.42	821.57	976.20	1023.07
71.5	556.26	618.50	806.41	960.06	1003.41
72.0	536.03	601.13	791.73	943.65	983.25
72.5	516.02	583.97	777.10	926.19	962.78
73.0	495.39	567.11	762.28	907.24	942.88
73.5	475.58	550.38	747.61	887.73	925.15
74.0	455.22	533.73	732.71	868.37	908.44
74.5	435.53	517.62	717.95	850.19	892.81
75.0	415.58	501.27	702.67	833.03	877.26
75.5	395.84	485.68	687.40	817.15	862.58
76.0	376.29	469.67	671.39	801.75	847.91
76.5	357.17	454.50	655.13	787.03	833.80
77.0	338.26	439.56	638.49	772.83	819.85
77.5	319.22	424.39	621.43	758.37	805.71
78.0	300.85	409.75	604.96	744.60	792.21
78.5	282.29	395.01	588.62	730.64	778.38
79.0	264.44	380.66	573.43	717.17	765.01
79.5	246.36	366.15	558.49	703.57	751.30
80.0	229.01	352.13	544.26	690.16	737.89
80.5	211.61	337.77	529.88	676.64	724.44
81.0	195.10	323.84	516.04	663.42	711.38
81.5	179.01	309.93	502.33	650.35	698.27
82.0	162.82	295.62	488.25	637.12	685.16
82.5	147.42	281.53	474.43	623.92	672.05

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83.0	132.43	267.27	460.26	610.52	659.03
83.5	118.03	253.33	446.19	597.32	646.01
84.0	103.83	239.04	431.72	583.68	632.84
84.5	90.61	225.22	417.20	570.00	620.05
85.0	77.79	210.90	402.09	555.29	604.60
85.5	66.03	196.84	386.84	537.40	582.75
86.0	55.13	182.38	370.44	512.96	552.57
86.5	44.74	166.77	348.34	481.27	516.54
87.0	35.61	150.44	324.36	446.71	479.86
87.5	27.24	131.44	296.15	409.43	440.96
88.0	20.26	111.93	264.77	372.58	402.82
88.5	13.67	92.97	232.59	335.28	363.87
89.0	8.68	78.90	204.47	300.03	326.02
89.5	5.65	66.21	181.79	267.62	289.60
90.0	3.40	54.44	165.03	247.24	265.54
90.5	1.27	46.46	153.79	235.85	258.31
91.0	0.21	44.02	148.28	229.95	252.47
91.5	0.22	42.53	144.22	224.43	246.91
92.0	0.30	40.92	140.25	218.99	241.13
92.5	0.31	39.43	136.54	213.89	235.79
93.0	0.40	37.65	133.62	208.85	230.23
93.5	0.38	35.65	133.18	203.94	225.11
94.0	0.48	33.46	133.91	199.76	219.97
94.5	0.70	31.38	136.37	198.46	216.31
95.0	0.84	29.34	140.59	201.80	216.98
95.5	0.94	27.20	143.68	209.76	224.19
96.0	1.10	25.24	141.83	220.21	236.55
96.5	1.29	23.24	138.12	232.23	252.09
97.0	1.51	21.56	130.97	244.36	268.44
97.5	1.71	20.05	119.72	253.47	285.64
98.0	1.98	18.56	108.64	252.94	300.41
98.5	2.05	17.14	99.64	241.80	306.22
99.0	2.18	15.85	90.81	223.21	295.12
99.5	2.45	14.58	84.05	202.78	273.31
100.0	2.39	13.27	78.75	180.81	248.03
100.5	2.47	12.20	73.93	159.60	222.35
101.0	2.48	11.13	69.36	141.47	195.75
101.5	2.51	10.14	65.48	129.21	170.11
102.0	2.55	9.32	61.85	121.93	149.31
102.5	2.54	8.44	58.58	116.07	139.35
103.0	2.57	7.81	55.51	110.52	133.93
103.5	2.58	7.11	52.63	105.42	129.15
104.0	2.57	6.50	49.93	100.76	124.48
104.5	2.60	6.03	47.36	96.51	119.78
105.0	2.69	5.53	44.85	92.74	115.55
105.5	2.71	5.06	42.43	89.20	111.42
106.0	2.79	4.70	40.20	85.86	107.47
106.5	2.81	4.33	37.87	82.57	103.79
107.0	2.82	4.02	35.79	79.53	100.07
107.5	2.87	3.90	33.70	76.34	96.54
108.0	2.88	3.75	31.76	73.47	93.06
108.5	2.89	3.54	29.88	70.53	89.69
109.0	2.96	3.55	27.98	67.71	86.33
109.5	3.04	3.49	26.21	64.89	83.13
110.0	3.07	3.47	24.47	62.10	79.84
110.5	3.08	3.47	22.92	59.43	76.75

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111.0	3.14	3.41	21.28	56.73	73.59
111.5	3.21	3.49	19.84	54.15	70.48
112.0	3.23	3.45	18.43	51.64	67.35
112.5	3.37	3.55	17.10	49.17	64.45
113.0	3.42	3.56	15.74	46.73	61.63
113.5	3.50	3.57	14.55	44.35	58.70
114.0	3.53	3.61	13.33	42.07	55.91
114.5	3.61	3.61	12.29	39.73	53.28
115.0	3.68	3.67	11.25	37.61	50.60
115.5	3.80	3.79	10.30	35.44	48.06
116.0	3.80	3.86	9.36	33.46	45.61
116.5	3.88	3.88	8.58	31.45	43.24
117.0	3.96	3.97	7.85	29.55	41.03
117.5	4.08	3.97	7.16	27.76	38.67
118.0	4.23	4.08	6.62	25.91	36.47
118.5	4.23	4.17	6.05	24.23	34.23
119.0	4.33	4.25	5.67	22.63	32.13
119.5	4.43	4.39	5.31	21.05	30.21
120.0	4.56	4.50	5.13	19.52	28.35
120.5	4.60	4.57	5.05	18.11	26.57
121.0	4.72	4.65	5.03	16.77	24.81
121.5	4.84	4.88	5.14	15.42	23.16
122.0	5.03	5.03	5.32	14.27	21.71
122.5	5.06	5.12	5.53	13.12	20.13
123.0	5.18	5.28	5.69	12.06	18.66
123.5	5.34	5.50	5.86	11.12	17.24
124.0	5.43	5.58	6.07	10.27	15.94
124.5	5.63	5.82	6.25	9.46	14.67
125.0	5.73	5.99	6.48	8.89	13.59
125.5	5.86	6.18	6.67	8.23	12.45
126.0	6.05	6.32	6.82	7.77	11.50
126.5	6.23	6.43	6.98	7.49	10.56
127.0	6.37	6.54	7.18	7.26	9.93
127.5	6.41	6.67	7.30	7.16	9.26
128.0	6.64	6.80	7.46	7.19	8.72
128.5	6.78	6.92	7.69	7.32	8.28
129.0	6.90	7.05	7.76	7.57	8.10
129.5	7.07	7.12	7.91	7.85	7.89
130.0	7.18	7.23	8.05	8.15	7.99
130.5	7.33	7.33	8.05	8.34	8.00
131.0	7.43	7.47	8.19	8.63	8.15
131.5	7.59	7.58	8.31	8.84	8.54
132.0	7.61	7.72	8.35	9.08	8.79
132.5	7.72	7.93	8.38	9.32	9.04
133.0	7.79	8.14	8.53	9.50	9.28
133.5	7.86	8.50	8.69	9.69	9.51
134.0	7.95	8.81	8.75	9.76	9.79
134.5	7.96	9.19	8.70	9.86	9.98
135.0	8.07	9.55	8.79	9.93	10.02
135.5	8.03	9.92	8.90	9.96	10.16
136.0	8.07	10.40	8.91	9.98	10.29
136.5	8.07	10.86	8.96	10.02	10.33
137.0	8.05	11.21	9.09	9.98	10.40
137.5	8.09	11.52	9.13	9.94	10.42
138.0	8.07	11.89	9.27	9.89	10.42
138.5	8.02	12.09	9.38	9.86	10.43

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HBI A24-LED75DMVFR35 LLIA000974-004.IES****CANDELA TABULATION - (Cont.)**

139.0	8.07	12.22	9.53	9.84	10.30
139.5	8.02	12.38	9.64	9.66	10.19
140.0	7.92	12.36	9.74	9.66	10.14
140.5	7.98	12.35	9.87	9.61	10.03
141.0	7.88	12.27	10.04	9.55	9.95
141.5	7.97	12.20	10.14	9.57	9.90
142.0	7.85	12.00	10.22	9.51	9.74
142.5	7.80	11.82	10.33	9.49	9.56
143.0	7.82	11.68	10.44	9.33	9.59
143.5	7.69	11.47	10.45	9.37	9.54
144.0	7.73	11.24	10.54	9.38	9.45
144.5	7.74	11.06	10.35	9.49	9.45
145.0	7.67	10.83	10.41	9.68	9.41
145.5	7.81	10.59	10.25	9.73	9.39
146.0	7.75	10.36	10.16	9.83	9.56
146.5	7.65	10.15	10.04	10.01	9.53
147.0	7.70	9.85	9.91	10.28	9.72
147.5	7.72	9.73	9.71	10.55	9.83
148.0	7.81	9.50	9.53	10.77	10.01
148.5	7.75	9.34	9.52	11.02	10.14
149.0	7.73	9.14	9.52	11.23	10.40
149.5	7.71	8.97	9.96	11.39	10.73
150.0	7.71	8.82	10.35	11.50	11.04
150.5	7.71	8.67	10.91	11.44	11.24
151.0	7.67	8.57	11.49	11.47	11.46
151.5	7.55	8.46	12.20	11.31	11.66
152.0	7.68	8.40	12.93	11.19	11.69
152.5	7.53	8.31	13.69	10.88	11.69
153.0	7.51	8.28	14.26	10.60	11.64
153.5	7.52	8.12	14.53	10.42	11.42
154.0	7.50	8.06	14.65	10.10	11.13
154.5	7.48	7.98	14.54	9.78	10.74
155.0	7.45	7.88	14.02	9.56	10.44
155.5	7.42	7.90	13.35	9.81	10.17
156.0	7.42	7.76	12.62	10.32	9.88
156.5	7.30	7.71	11.92	11.26	9.63
157.0	7.39	7.69	11.31	12.35	9.75
157.5	7.33	7.62	10.73	13.75	10.47
158.0	7.38	7.62	10.16	14.91	11.38
158.5	7.31	7.54	9.73	15.64	12.56
159.0	7.26	7.49	9.37	16.01	14.08
159.5	7.09	7.44	9.07	15.88	15.48
160.0	7.21	7.32	8.85	15.17	16.22
160.5	7.11	7.30	8.57	13.92	16.37
161.0	7.14	7.24	8.40	12.67	16.21
161.5	7.03	7.21	8.20	11.50	15.00
162.0	7.04	7.11	7.96	10.61	13.43
162.5	6.92	6.99	7.85	10.09	11.99
163.0	6.83	6.96	7.65	9.54	10.87
163.5	6.87	6.87	7.52	9.28	10.11
164.0	6.81	6.90	7.40	8.99	9.70
164.5	6.75	6.81	7.37	8.74	9.26
165.0	6.66	6.75	7.28	8.40	8.94
165.5	6.65	6.63	7.27	8.21	8.66
166.0	6.45	6.57	7.10	8.07	8.39
166.5	6.33	6.55	6.99	7.85	8.10

CANDELA TABULATION - (Cont.)

167.0	6.36	6.49	6.82	7.44	7.97
167.5	6.32	6.42	6.67	7.22	7.83
168.0	6.24	6.28	6.51	7.16	7.70
168.5	6.11	6.34	6.38	7.08	7.61
169.0	6.08	6.23	6.25	6.91	7.46
169.5	5.96	6.18	6.20	6.80	7.25
170.0	5.91	6.07	6.15	6.59	6.97
170.5	5.84	5.94	6.07	6.54	6.67
171.0	5.79	5.91	6.07	6.32	6.51
171.5	5.73	5.81	6.09	6.15	6.28
172.0	5.70	5.76	6.06	5.99	6.09
172.5	5.58	5.79	5.90	5.88	5.99
173.0	5.52	5.64	5.83	5.77	5.80
173.5	5.54	5.64	5.80	5.70	5.73
174.0	5.33	5.59	5.67	5.63	5.61
174.5	5.24	5.55	5.60	5.50	5.44
175.0	5.15	5.50	5.49	5.49	5.36
175.5	0.00	0.00	0.00	0.00	0.00
176.0	0.00	0.00	0.00	0.00	0.00
176.5	0.00	0.00	0.00	0.00	0.00
177.0	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00
178.0	0.00	0.00	0.00	0.00	0.00
178.5	0.00	0.00	0.00	0.00	0.00
179.0	0.00	0.00	0.00	0.00	0.00
179.5	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HBIA24-LED75DMVFR35 LLIA000974-004.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	982.26	N.A.	11.80
0-30	2078.26	N.A.	25.00
0-40	3388.6	N.A.	40.70
0-60	5969.66	N.A.	71.80
0-80	7685.62	N.A.	92.40
0-90	8074.09	N.A.	97.10
10-90	7819.4	N.A.	94.00
20-40	2406.35	N.A.	28.90
20-50	3756.14	N.A.	45.20
40-70	3584.79	N.A.	43.10
60-80	1715.96	N.A.	20.60
70-80	712.23	N.A.	8.60
80-90	388.47	N.A.	4.70
90-110	196.03	N.A.	2.40
90-120	216.69	N.A.	2.60
90-130	224.20	N.A.	2.70
90-150	237.54	N.A.	2.90
90-180	245.07	N.A.	2.90
110-180	49.04	N.A.	0.60
0-180	8319.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

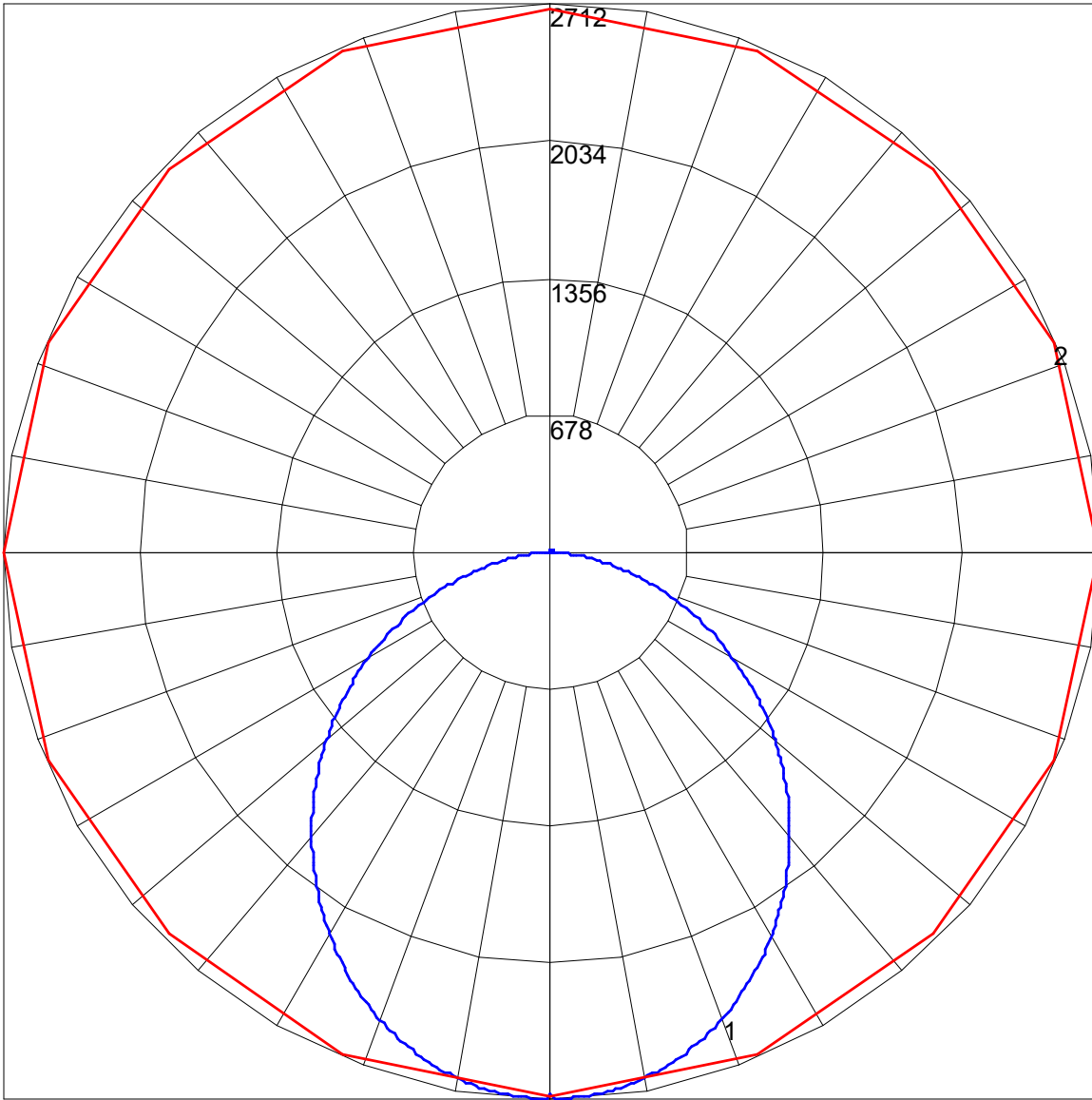
Zone	Lumens
0-10	254.69
10-20	727.56
20-30	1096.00
30-40	1310.34
40-50	1349.79
50-60	1231.27
60-70	1003.74
70-80	712.23
80-90	388.47
90-100	138.34
100-110	57.70
110-120	20.66
120-130	7.51
130-140	7.11
140-150	6.23
150-160	4.80
160-170	2.30
170-180	0.43

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	107	101	96	92	104	99	94	90	94	90	87	89	86	84	85	83	81	78
2	97	88	80	74	94	85	79	73	81	76	71	78	73	69	74	70	67	64
3	88	77	68	61	85	75	67	60	71	65	59	68	62	57	65	60	56	54
4	80	68	59	52	78	66	58	51	63	56	50	61	54	49	58	53	48	46
5	74	60	51	44	71	59	50	44	57	49	43	54	48	42	52	46	42	39
6	68	54	45	39	66	53	45	38	51	43	38	49	42	37	47	41	37	34
7	63	49	40	34	61	48	40	34	46	39	33	45	38	33	43	37	32	30
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	41	33	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	29	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 2712.41 Located At Horizontal Angle = 0, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)