



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : HBIA24-LED75DMV35 - LLIA000974-001.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LLIA000974-001A  
 [TESTLAB] LightLab International Allentown, LLC  
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA  
 [LUMCAT] HBIA24-LED75DMV35  
 [LUMINAIRE] Catalog Number: HBIA24-LED75DMV35  
 [MORE] Pendant/surface mounted, formed steel housing, formed aluminum LED mounting plates, no enclosure.  
 [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, 0.6113A, 73.10W, 0.997PF, 6.3%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 1:40:59 PM  
 [ISSUE DATE] Thursday, April 26, 2018 1:40:59 PM

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10147
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	73.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
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	20338	19437	19326
55	19268	18219	18377
65	17267	16238	12951
75	13222	6542	1655
85	4727	337	212

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	3587.46	3587.46	3587.46	3587.46	3587.46
<b>0.5</b>	3622.21	3596.22	3564.51	3584.64	3586.06
<b>1.0</b>	3621.61	3595.90	3564.32	3584.25	3585.59
<b>1.5</b>	3620.95	3595.36	3563.97	3583.64	3584.91
<b>2.0</b>	3620.32	3594.32	3563.36	3583.07	3583.95
<b>2.5</b>	3619.11	3593.24	3562.40	3582.30	3582.97
<b>3.0</b>	3617.85	3591.94	3561.17	3581.33	3581.57
<b>3.5</b>	3616.52	3590.32	3559.84	3580.13	3580.20
<b>4.0</b>	3614.29	3588.37	3558.46	3578.76	3578.52
<b>4.5</b>	3612.32	3586.30	3556.84	3577.35	3576.67
<b>5.0</b>	3609.83	3583.91	3554.92	3575.89	3574.89
<b>5.5</b>	3607.04	3581.53	3552.82	3573.96	3572.94
<b>6.0</b>	3604.30	3578.78	3550.39	3572.14	3570.93
<b>6.5</b>	3600.78	3575.65	3547.88	3570.02	3568.66
<b>7.0</b>	3597.33	3572.42	3545.27	3567.87	3566.45
<b>7.5</b>	3593.51	3568.85	3542.31	3565.54	3563.95
<b>8.0</b>	3589.69	3565.02	3539.22	3563.32	3561.71
<b>8.5</b>	3585.34	3560.91	3536.04	3560.96	3559.37
<b>9.0</b>	3580.94	3556.77	3532.70	3558.96	3557.94
<b>9.5</b>	3576.36	3552.25	3529.09	3557.30	3557.19
<b>10.0</b>	3571.49	3547.51	3525.38	3555.89	3556.28
<b>10.5</b>	3566.25	3542.59	3521.49	3554.87	3554.68
<b>11.0</b>	3560.89	3537.08	3517.63	3553.56	3551.82
<b>11.5</b>	3555.16	3531.86	3513.81	3551.14	3548.09
<b>12.0</b>	3549.16	3525.93	3509.98	3547.67	3543.19
<b>12.5</b>	3542.46	3520.22	3506.28	3543.47	3538.03
<b>13.0</b>	3536.20	3514.02	3502.45	3538.38	3533.41
<b>13.5</b>	3529.57	3507.61	3498.80	3533.33	3529.82
<b>14.0</b>	3522.85	3501.13	3494.65	3528.65	3527.49
<b>14.5</b>	3515.57	3494.33	3489.61	3524.65	3525.75
<b>15.0</b>	3508.27	3487.17	3484.05	3521.70	3523.44
<b>15.5</b>	3500.31	3479.81	3477.80	3519.18	3518.43
<b>16.0</b>	3492.70	3472.34	3471.16	3515.73	3510.93
<b>16.5</b>	3484.26	3464.33	3464.18	3510.25	3502.40
<b>17.0</b>	3475.92	3456.36	3457.19	3502.83	3494.50
<b>17.5</b>	3466.92	3448.18	3450.13	3494.44	3486.61
<b>18.0</b>	3458.08	3440.20	3443.49	3486.35	3479.11
<b>18.5</b>	3449.11	3432.00	3437.09	3478.25	3471.69
<b>19.0</b>	3439.18	3423.34	3430.28	3469.86	3463.99
<b>19.5</b>	3429.63	3414.81	3423.20	3461.76	3455.60
<b>20.0</b>	3419.54	3405.36	3415.39	3453.68	3444.84
<b>20.5</b>	3409.30	3396.20	3407.36	3445.20	3433.34
<b>21.0</b>	3398.63	3386.42	3398.23	3434.75	3422.89
<b>21.5</b>	3388.38	3376.73	3388.87	3423.11	3412.04
<b>22.0</b>	3377.45	3366.54	3378.62	3411.13	3398.93
<b>22.5</b>	3366.71	3356.42	3368.43	3399.69	3385.55
<b>23.0</b>	3355.64	3346.09	3357.94	3387.89	3372.36
<b>23.5</b>	3344.03	3335.34	3346.93	3374.57	3358.43
<b>24.0</b>	3332.31	3324.88	3335.81	3360.77	3344.30
<b>24.5</b>	3319.86	3313.61	3323.88	3346.38	3329.71
<b>25.0</b>	3307.71	3302.26	3312.09	3331.82	3315.09
<b>25.5</b>	3295.06	3290.43	3299.43	3316.70	3299.61
<b>26.0</b>	3282.27	3278.54	3286.39	3301.71	3283.57
<b>26.5</b>	3268.63	3266.11	3272.65	3286.00	3266.04

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<b>27.0</b>	3254.79	3253.45	3258.79	3270.10	3248.15
<b>27.5</b>	3240.48	3240.85	3244.33	3253.59	3229.87
<b>28.0</b>	3224.42	3227.33	3229.60	3236.07	3210.98
<b>28.5</b>	3207.21	3213.49	3214.41	3217.88	3192.51
<b>29.0</b>	3187.92	3198.76	3198.64	3198.81	3173.93
<b>29.5</b>	3167.18	3183.92	3182.83	3179.72	3155.48
<b>30.0</b>	3145.73	3167.68	3166.17	3159.67	3136.64
<b>30.5</b>	3125.66	3150.63	3149.70	3140.21	3117.45
<b>31.0</b>	3106.53	3131.90	3132.71	3120.52	3097.23
<b>31.5</b>	3089.33	3112.70	3115.49	3100.95	3076.95
<b>32.0</b>	3072.50	3093.13	3098.12	3081.17	3056.45
<b>32.5</b>	3055.15	3073.14	3079.98	3060.60	3035.39
<b>33.0</b>	3038.52	3053.68	3061.79	3040.01	3014.88
<b>33.5</b>	3021.63	3033.51	3042.64	3018.67	2993.79
<b>34.0</b>	3004.85	3014.09	3023.73	2997.46	2973.28
<b>34.5</b>	2987.73	2994.91	3004.24	2975.77	2952.40
<b>35.0</b>	2970.51	2976.05	2984.29	2954.09	2931.57
<b>35.5</b>	2953.17	2958.00	2964.13	2932.54	2911.39
<b>36.0</b>	2935.20	2939.71	2943.51	2910.86	2890.40
<b>36.5</b>	2917.10	2921.46	2922.82	2889.23	2869.73
<b>37.0</b>	2898.11	2902.35	2900.76	2867.10	2847.90
<b>37.5</b>	2878.58	2883.58	2878.80	2845.64	2826.06
<b>38.0</b>	2856.57	2864.06	2855.76	2823.23	2803.43
<b>38.5</b>	2832.99	2844.71	2832.49	2801.46	2780.99
<b>39.0</b>	2806.61	2824.48	2808.05	2778.94	2758.20
<b>39.5</b>	2780.11	2804.09	2783.60	2756.63	2735.75
<b>40.0</b>	2754.59	2781.89	2758.14	2733.91	2712.65
<b>40.5</b>	2731.56	2759.21	2732.95	2711.41	2690.33
<b>41.0</b>	2709.67	2735.15	2707.79	2688.93	2668.32
<b>41.5</b>	2687.63	2709.89	2682.53	2665.31	2645.50
<b>42.0</b>	2666.04	2685.71	2658.04	2642.42	2622.69
<b>42.5</b>	2644.46	2661.55	2632.96	2618.67	2599.85
<b>43.0</b>	2623.19	2637.86	2608.38	2595.33	2577.38
<b>43.5</b>	2601.43	2612.82	2582.91	2571.70	2553.94
<b>44.0</b>	2579.40	2587.43	2557.97	2548.17	2530.82
<b>44.5</b>	2556.52	2560.87	2532.14	2523.87	2506.83
<b>45.0</b>	2533.19	2535.14	2506.52	2500.24	2483.10
<b>45.5</b>	2508.34	2509.95	2480.88	2476.50	2459.47
<b>46.0</b>	2480.80	2484.11	2454.05	2451.51	2435.38
<b>46.5</b>	2451.14	2459.58	2427.80	2427.35	2411.06
<b>47.0</b>	2419.41	2433.87	2400.66	2402.50	2386.39
<b>47.5</b>	2390.47	2408.45	2374.56	2377.83	2362.14
<b>48.0</b>	2363.39	2381.65	2347.84	2352.32	2337.29
<b>48.5</b>	2338.11	2354.44	2321.48	2327.17	2312.76
<b>49.0</b>	2312.81	2325.29	2294.54	2301.07	2287.34
<b>49.5</b>	2288.00	2296.33	2268.21	2275.55	2262.33
<b>50.0</b>	2263.46	2268.36	2241.64	2250.02	2237.39
<b>50.5</b>	2237.85	2240.86	2214.07	2223.69	2210.99
<b>51.0</b>	2212.22	2213.86	2186.83	2197.41	2185.36
<b>51.5</b>	2183.94	2185.97	2158.88	2170.56	2158.64
<b>52.0</b>	2154.32	2158.68	2130.78	2144.50	2132.37
<b>52.5</b>	2121.34	2129.61	2101.75	2117.29	2105.21
<b>53.0</b>	2087.64	2100.31	2073.18	2090.31	2078.40
<b>53.5</b>	2056.08	2069.18	2043.59	2062.28	2050.48
<b>54.0</b>	2028.05	2038.60	2015.39	2034.34	2022.85
<b>54.5</b>	2000.86	2007.68	1987.26	2005.95	1994.81

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55.0	1973.07	1975.27	1958.50	1976.89	1965.37
55.5	1945.82	1942.92	1930.50	1948.14	1936.23
56.0	1917.12	1910.68	1901.72	1919.33	1906.26
56.5	1886.23	1880.13	1873.59	1890.32	1876.49
57.0	1852.24	1849.97	1844.84	1860.26	1845.52
57.5	1817.33	1820.42	1816.25	1831.00	1815.17
58.0	1783.48	1790.46	1787.05	1799.36	1783.73
58.5	1753.46	1761.04	1758.10	1767.64	1752.88
59.0	1724.58	1731.22	1729.11	1736.13	1722.18
59.5	1695.76	1699.45	1699.51	1704.31	1690.40
60.0	1665.43	1666.53	1669.35	1672.63	1659.56
60.5	1631.82	1631.23	1637.82	1640.41	1627.92
61.0	1597.04	1596.20	1606.05	1608.76	1596.60
61.5	1561.32	1562.17	1573.37	1576.44	1559.60
62.0	1529.67	1529.76	1541.85	1544.57	1512.65
62.5	1498.68	1497.22	1508.53	1512.06	1452.50
63.0	1468.27	1466.61	1476.85	1478.58	1385.46
63.5	1435.19	1435.63	1444.83	1438.52	1315.40
64.0	1400.42	1403.69	1412.22	1386.40	1241.22
64.5	1364.95	1369.99	1378.76	1324.69	1158.15
65.0	1331.82	1334.21	1344.01	1256.18	1064.05
65.5	1300.82	1299.91	1310.40	1185.84	969.61
66.0	1266.24	1265.84	1277.00	1107.04	886.04
66.5	1232.30	1232.40	1244.02	1021.33	818.25
67.0	1195.90	1199.24	1211.13	927.30	759.19
67.5	1162.83	1165.90	1178.09	844.40	705.72
68.0	1129.68	1133.53	1143.26	775.26	659.14
68.5	1095.58	1098.22	1106.59	714.97	617.33
69.0	1060.77	1063.87	1065.80	660.22	582.46
69.5	1026.11	1028.92	1014.95	609.81	553.40
70.0	992.90	996.82	956.38	568.19	531.08
70.5	958.72	962.13	890.63	532.39	501.06
71.0	924.36	927.40	821.48	504.74	467.91
71.5	889.76	894.14	741.79	477.70	420.19
72.0	857.05	859.31	661.51	448.88	370.54
72.5	822.04	824.41	590.87	412.60	326.26
73.0	788.81	791.60	531.51	365.57	275.21
73.5	754.30	757.13	476.75	318.98	215.68
74.0	721.01	722.91	425.57	271.49	165.95
74.5	686.90	690.13	389.96	218.61	128.26
75.0	654.70	655.35	363.27	166.46	90.80
75.5	620.31	623.34	335.86	127.43	60.33
76.0	588.03	589.27	306.87	91.22	38.68
76.5	555.12	557.16	271.84	58.78	23.94
77.0	523.76	525.53	233.42	37.41	14.24
77.5	491.57	493.00	190.73	23.83	11.32
78.0	460.12	458.09	152.07	16.13	10.83
78.5	429.07	415.66	111.98	12.34	10.22
79.0	399.30	371.75	81.60	11.32	9.72
79.5	369.32	321.30	50.71	10.63	9.46
80.0	340.09	271.09	34.29	10.22	8.94
80.5	310.98	224.35	26.54	9.66	8.48
81.0	283.83	188.65	20.05	9.30	8.21
81.5	257.10	161.88	15.35	8.85	7.92
82.0	231.20	138.24	13.83	8.52	7.69
82.5	206.24	111.90	12.74	8.19	7.30

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**CANDELA TABULATION - (Cont.)**

83.0	182.02	89.27	11.82	7.84	6.95
83.5	159.44	64.34	10.99	7.49	6.70
84.0	137.16	44.55	10.22	7.09	6.34
84.5	116.38	33.05	9.59	6.70	6.00
85.0	96.42	29.08	8.96	6.26	5.49
85.5	78.49	22.81	8.25	5.89	5.30
86.0	61.91	18.56	7.69	5.61	4.96
86.5	47.61	16.58	7.10	5.11	4.43
87.0	36.59	14.86	6.49	4.59	4.06
87.5	26.56	13.33	5.80	4.19	3.53
88.0	19.73	11.51	5.41	3.67	3.01
88.5	14.49	9.86	4.94	3.17	2.54
89.0	9.14	8.29	4.39	2.59	1.98
89.5	5.30	6.74	3.89	2.09	1.45
90.0	2.55	5.68	3.33	1.71	1.11
90.5	0.00	4.79	2.87	1.31	0.00
91.0	0.00	4.37	2.48	1.03	0.00
91.5	0.00	4.10	2.12	0.00	0.00
92.0	0.00	3.85	1.88	0.00	0.00
92.5	0.00	3.52	1.62	0.00	0.00
93.0	0.00	3.21	1.48	0.00	0.00
93.5	0.00	3.08	1.44	0.00	0.00
94.0	0.00	2.87	1.33	0.00	0.00
94.5	0.00	2.72	1.43	0.00	0.00
95.0	0.00	2.58	1.46	0.00	0.00
95.5	0.00	2.41	1.49	0.00	0.00
96.0	0.00	2.27	1.54	0.00	0.00
96.5	0.00	2.21	1.45	0.00	0.00
97.0	0.00	2.04	1.44	0.00	0.00
97.5	0.00	1.94	1.35	0.00	0.00
98.0	1.04	1.92	1.31	0.00	0.00
98.5	1.16	1.85	1.27	0.00	0.00
99.0	1.29	1.79	1.28	0.00	0.00
99.5	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00
100.5	0.00	0.00	0.00	0.00	0.00
101.0	0.00	0.00	0.00	0.00	0.00
101.5	0.00	0.00	0.00	0.00	0.00
102.0	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00
103.0	0.00	0.00	0.00	0.00	0.00
103.5	0.00	0.00	0.00	0.00	0.00
104.0	0.00	0.00	0.00	0.00	0.00
104.5	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00
105.5	0.00	0.00	0.00	0.00	0.00
106.0	0.00	0.00	0.00	0.00	0.00
106.5	0.00	0.00	0.00	0.00	0.00
107.0	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00
108.0	0.00	0.00	0.00	0.00	0.00
108.5	0.00	0.00	0.00	0.00	0.00
109.0	0.00	0.00	0.00	0.00	0.00
109.5	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00
110.5	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

111.0	0.00	0.00	0.00	0.00	0.00
111.5	0.00	0.00	0.00	0.00	0.00
112.0	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00
113.0	0.00	0.00	0.00	0.00	0.00
113.5	0.00	0.00	0.00	0.00	0.00
114.0	0.00	0.00	0.00	0.00	0.00
114.5	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00
115.5	0.00	0.00	0.00	0.00	0.00
116.0	0.00	0.00	0.00	0.00	0.00
116.5	0.00	0.00	0.00	0.00	0.00
117.0	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00
118.0	0.00	0.00	0.00	0.00	0.00
118.5	0.00	0.00	0.00	0.00	0.00
119.0	0.00	0.00	0.00	0.00	0.00
119.5	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00
120.5	0.00	0.00	0.00	0.00	0.00
121.0	0.00	0.00	0.00	0.00	0.00
121.5	0.00	0.00	0.00	0.00	0.00
122.0	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00
123.0	0.00	0.00	0.00	0.00	0.00
123.5	0.00	0.00	0.00	0.00	0.00
124.0	0.00	0.00	0.00	0.00	0.00
124.5	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00
125.5	0.00	0.00	0.00	0.00	0.00
126.0	0.00	0.00	0.00	0.00	0.00
126.5	0.00	0.00	0.00	0.00	0.00
127.0	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00
128.0	0.00	0.00	0.00	0.00	0.00
128.5	0.00	0.00	0.00	0.00	0.00
129.0	0.00	0.00	0.00	0.00	0.00
129.5	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00
130.5	0.00	0.00	0.00	0.00	0.00
131.0	0.00	0.00	0.00	0.00	0.00
131.5	0.00	0.00	0.00	0.00	0.00
132.0	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00
133.0	0.00	0.00	0.00	0.00	0.00
133.5	0.00	0.00	0.00	0.00	0.00
134.0	0.00	0.00	0.00	0.00	0.00
134.5	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00
135.5	0.00	0.00	0.00	0.00	0.00
136.0	0.00	0.00	0.00	0.00	0.00
136.5	0.00	0.00	0.00	0.00	0.00
137.0	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00
138.0	0.00	0.00	0.00	0.00	0.00
138.5	0.00	0.00	0.00	0.00	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HBIA24-LED75DMV35 - LLIA000974-001.IES**

**CANDELA TABULATION - (Cont.)**

139.0	0.00	0.00	0.00	0.00	0.00
139.5	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00
140.5	0.00	0.00	0.00	0.00	0.00
141.0	0.00	0.00	0.00	0.00	0.00
141.5	0.00	0.00	0.00	0.00	0.00
142.0	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00
143.0	0.00	0.00	0.00	0.00	0.00
143.5	0.00	0.00	0.00	0.00	0.00
144.0	0.00	0.00	0.00	0.00	0.00
144.5	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00
145.5	0.00	0.00	0.00	0.00	0.00
146.0	0.00	0.00	0.00	0.00	0.00
146.5	0.00	0.00	0.00	0.00	0.00
147.0	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00
148.0	0.00	0.00	0.00	0.00	0.00
148.5	0.00	0.00	0.00	0.00	0.00
149.0	0.00	0.00	0.00	0.00	0.00
149.5	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00
150.5	0.00	0.00	0.00	0.00	0.00
151.0	0.00	0.00	0.00	0.00	0.00
151.5	0.00	0.00	0.00	0.00	0.00
152.0	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00
153.0	0.00	0.00	0.00	0.00	0.00
153.5	0.00	0.00	0.00	0.00	0.00
154.0	0.00	0.00	0.00	0.00	0.00
154.5	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00
155.5	0.00	0.00	0.00	0.00	0.00
156.0	0.00	0.00	0.00	0.00	0.00
156.5	0.00	0.00	0.00	0.00	0.00
157.0	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00
158.0	0.00	0.00	0.00	0.00	0.00
158.5	0.00	0.00	0.00	0.00	0.00
159.0	0.00	0.00	0.00	0.00	0.00
159.5	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00
160.5	0.00	0.00	0.00	0.00	0.00
161.0	0.00	0.00	0.00	0.00	0.00
161.5	0.00	0.00	0.00	0.00	0.00
162.0	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00
163.0	0.00	0.00	0.00	0.00	0.00
163.5	0.00	0.00	0.00	0.00	0.00
164.0	0.00	0.00	0.00	0.00	0.00
164.5	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00
165.5	0.00	0.00	0.00	0.00	0.00
166.0	0.00	0.00	0.00	0.00	0.00
166.5	0.00	0.00	0.00	0.00	0.00



CANDELA TABULATION - (Cont.)

167.0	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00
168.0	0.00	0.00	0.00	0.00	0.00
168.5	0.00	0.00	0.00	0.00	0.00
169.0	0.00	0.00	0.00	0.00	0.00
169.5	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00
170.5	0.00	0.00	0.00	0.00	0.00
171.0	0.00	0.00	0.00	0.00	0.00
171.5	0.00	0.00	0.00	0.00	0.00
172.0	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00
173.0	0.00	0.00	0.00	0.00	0.00
173.5	0.00	0.00	0.00	0.00	0.00
174.0	0.00	0.00	0.00	0.00	0.00
174.5	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00
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-LED75DMV35 - LLIA000974-001.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1329.85	N.A.	13.10
0-30	2856.88	N.A.	28.20
0-40	4713.27	N.A.	46.50
0-60	8409.91	N.A.	82.90
0-80	10105.45	N.A.	99.60
0-90	10145.68	N.A.	100.00
10-90	9805.2	N.A.	96.60
20-40	3383.43	N.A.	33.30
20-50	5320.59	N.A.	52.40
40-70	4947.06	N.A.	48.80
60-80	1695.54	N.A.	16.70
70-80	445.12	N.A.	4.40
80-90	40.23	N.A.	0.40
90-110	1.24	N.A.	0.00
90-120	1.24	N.A.	0.00
90-130	1.24	N.A.	0.00
90-150	1.24	N.A.	0.00
90-180	1.24	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	10146.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

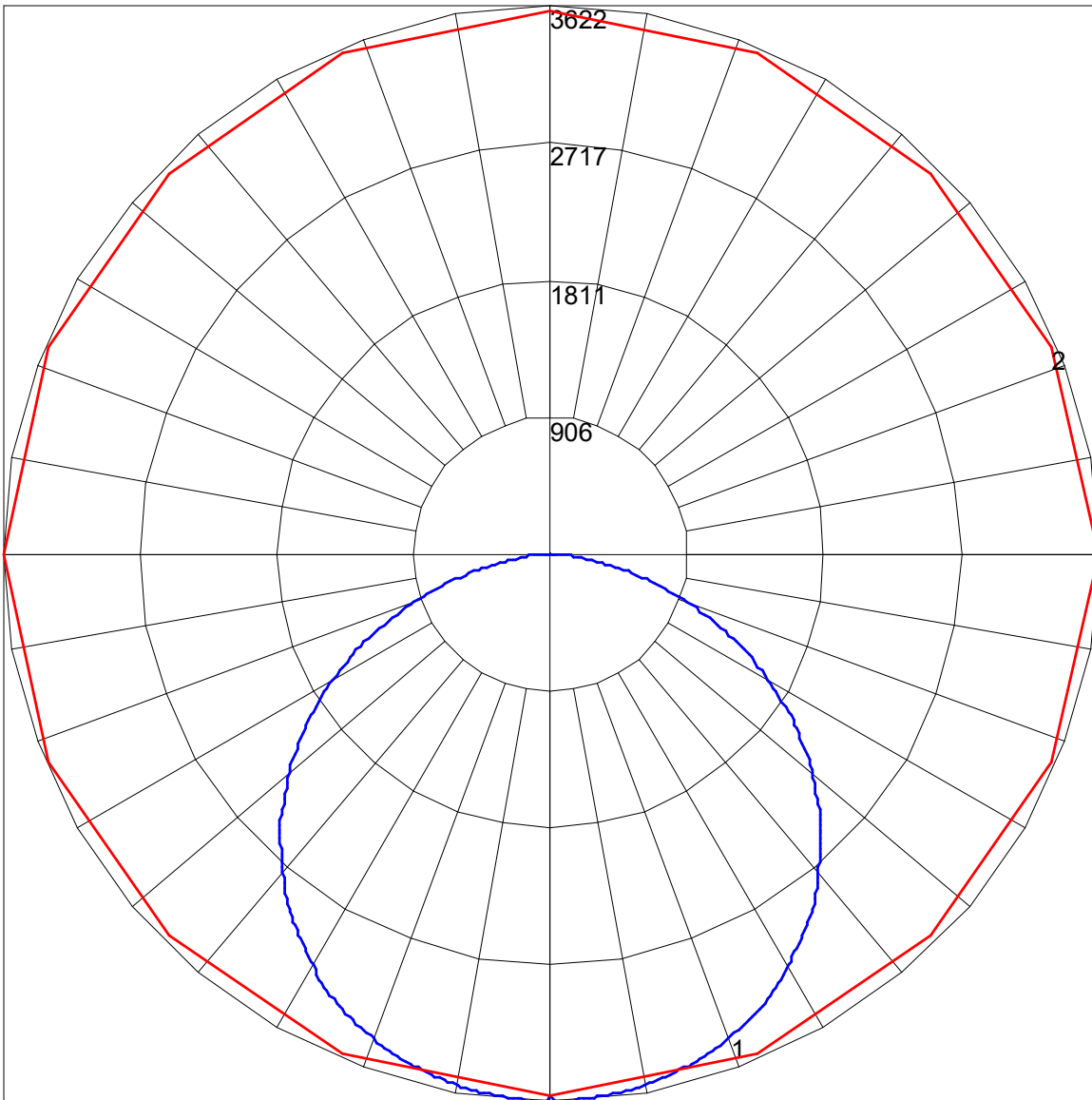
Zone	Lumens
0-10	340.48
10-20	989.37
20-30	1527.04
30-40	1856.39
40-50	1937.16
50-60	1759.48
60-70	1250.42
70-80	445.12
80-90	40.23
90-100	1.24
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86	
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72	
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61	
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52	
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39	
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35	
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31	
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	

POLAR GRAPH



Maximum Candela = 3622.21 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.)