



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HBIA24-LED175DMVFR35- LLIA000974-006.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA000974-006A
 [TESTLAB] LightLab International Allentown, LLC
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA
 [LUMCAT] HBIA24-LED175DMVFR35
 [LUMINAIRE] Catalog Number: HBIA24-LED175DMVFR35
 [MORE] Pendant/surface mounted, formed steel housing, formed aluminum LED mounting plates, frosted plastic enclosure.
 [MORE] 624 white LEDs, four ULT Everline M18CC835D156N2S50C LED boards with 156 LEDs each.
 [MORE] Two ULT Everline D23CC90UNVTW-F LED drivers each set at 2040mA.
 [MORE] 120.0Vac, 60.00Hz, 1.457A, 174.3W, 0.997PF, 5.6%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 3:06:44 PM
 [ISSUE DATE] Thursday, April 26, 2018 3:06:44 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	19047
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	174.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.58 m
Luminous Width (90-270)	0.48 m
Luminous Height	0.02 m

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBIA24-LED175DMVFR35- LLIA000974-006.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19008	19697	21464
55	17433	18617	21211
65	15365	18014	21947
75	12018	18889	24206
85	5352	19701	28000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HBIA24-LED175DMVFR35- LLIA000974-006.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	6308.57	6308.57	6308.57	6308.57	6308.57
0.5	6334.21	6321.77	6273.76	6303.73	6332.75
1.0	6332.98	6320.47	6272.46	6302.79	6332.39
1.5	6331.20	6318.92	6271.01	6301.49	6331.38
2.0	6328.39	6316.47	6268.88	6299.82	6330.13
2.5	6325.17	6313.23	6266.23	6297.64	6328.33
3.0	6320.94	6309.62	6263.08	6295.24	6326.05
3.5	6315.94	6305.06	6259.42	6292.22	6323.53
4.0	6310.47	6299.93	6255.16	6288.69	6320.35
4.5	6304.22	6294.17	6250.25	6284.70	6316.88
5.0	6297.17	6287.88	6244.89	6280.22	6313.25
5.5	6289.26	6280.52	6238.82	6275.36	6308.66
6.0	6280.86	6272.87	6232.12	6270.11	6304.02
6.5	6271.43	6264.23	6224.77	6264.13	6298.86
7.0	6261.35	6255.12	6217.18	6257.96	6293.11
7.5	6250.69	6244.75	6208.83	6250.96	6286.86
8.0	6239.44	6234.49	6199.84	6243.70	6280.60
8.5	6227.10	6222.89	6190.23	6235.71	6273.43
9.0	6214.72	6211.08	6180.19	6227.80	6266.47
9.5	6201.10	6198.73	6169.51	6219.47	6259.45
10.0	6187.50	6185.06	6158.06	6210.34	6251.45
10.5	6172.39	6171.31	6146.55	6201.05	6242.87
11.0	6157.17	6156.38	6134.07	6190.78	6233.67
11.5	6141.23	6141.19	6121.45	6180.33	6224.29
12.0	6123.93	6125.05	6108.13	6169.18	6213.96
12.5	6106.92	6108.50	6094.40	6157.71	6203.05
13.0	6088.73	6091.00	6080.07	6144.85	6191.44
13.5	6070.40	6073.30	6065.22	6131.89	6179.45
14.0	6051.48	6055.42	6049.99	6118.48	6167.20
14.5	6031.28	6035.92	6033.59	6103.73	6154.13
15.0	6010.95	6016.15	6016.87	6089.03	6140.89
15.5	5989.37	5995.42	5998.91	6073.65	6127.10
16.0	5967.08	5974.58	5980.94	6058.19	6113.12
16.5	5944.17	5952.34	5961.85	6041.44	6098.21
17.0	5921.08	5930.23	5942.64	6025.05	6083.03
17.5	5896.88	5906.99	5922.44	6007.78	6066.86
18.0	5872.51	5883.84	5902.13	5990.26	6050.63
18.5	5847.67	5860.15	5881.29	5971.95	6033.93
19.0	5821.88	5835.77	5859.41	5953.36	6016.73
19.5	5795.42	5810.61	5837.36	5934.12	5998.69
20.0	5768.67	5784.69	5814.25	5914.08	5980.15
20.5	5741.43	5758.72	5791.30	5893.99	5961.23
21.0	5712.86	5731.85	5767.19	5872.87	5941.14
21.5	5684.83	5704.71	5743.25	5851.55	5920.80
22.0	5655.32	5676.57	5718.07	5829.10	5899.52
22.5	5625.92	5648.69	5693.20	5806.70	5878.40
23.0	5596.45	5620.42	5667.77	5783.99	5856.55
23.5	5565.60	5590.46	5641.19	5759.92	5833.40
24.0	5534.35	5560.96	5614.69	5735.62	5809.91
24.5	5502.55	5529.98	5586.88	5710.03	5785.00
25.0	5470.52	5499.13	5559.11	5684.41	5760.20
25.5	5437.56	5467.24	5530.34	5657.51	5734.27
26.0	5404.49	5435.33	5501.71	5631.01	5707.99
26.5	5370.89	5402.67	5471.86	5603.35	5680.98

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HBIA24-LED175DMVFR35- LLIA000974-006.IES****CANDELA TABULATION - (Cont.)**

27.0	5336.53	5370.11	5442.12	5575.34	5654.39
27.5	5302.37	5337.05	5412.08	5547.06	5627.72
28.0	5267.08	5302.82	5380.72	5517.87	5598.99
28.5	5231.46	5268.72	5349.29	5488.21	5570.00
29.0	5195.19	5233.06	5316.78	5457.43	5540.27
29.5	5158.81	5198.19	5284.32	5427.30	5510.38
30.0	5121.36	5161.72	5250.74	5395.86	5479.28
30.5	5084.52	5125.96	5217.39	5364.64	5448.93
31.0	5046.23	5088.57	5182.82	5331.93	5416.94
31.5	5008.52	5052.00	5148.51	5299.66	5385.61
32.0	4970.70	5014.79	5114.01	5267.13	5353.65
32.5	4931.67	4976.38	5077.80	5233.29	5320.29
33.0	4892.58	4938.31	5041.98	5199.48	5287.35
33.5	4852.18	4899.25	5004.86	5164.77	5253.46
34.0	4812.36	4859.97	4968.13	5130.59	5219.50
34.5	4772.18	4820.53	4930.65	5095.10	5185.25
35.0	4731.01	4780.57	4892.56	5059.55	5149.96
35.5	4690.48	4740.29	4854.97	5024.55	5115.09
36.0	4649.42	4700.02	4816.54	4988.53	5079.53
36.5	4608.44	4659.87	4778.41	4952.83	5044.02
37.0	4565.80	4617.94	4738.49	4915.55	5007.08
37.5	4523.90	4576.86	4699.29	4879.07	4970.65
38.0	4480.67	4534.40	4658.76	4841.09	4933.28
38.5	4438.35	4492.90	4619.01	4803.94	4896.46
39.0	4394.59	4449.88	4577.84	4765.51	4858.21
39.5	4351.53	4407.69	4537.48	4727.89	4820.67
40.0	4307.58	4364.09	4495.84	4688.69	4781.98
40.5	4264.10	4321.25	4454.58	4650.48	4744.36
41.0	4220.65	4278.24	4413.38	4612.21	4706.23
41.5	4175.63	4233.76	4371.17	4572.41	4666.55
42.0	4131.67	4190.10	4329.14	4533.24	4627.98
42.5	4086.21	4144.90	4286.51	4493.47	4588.11
43.0	4041.63	4100.65	4244.47	4454.18	4549.04
43.5	3995.88	4055.42	4201.00	4413.42	4509.07
44.0	3951.16	4010.58	4158.47	4374.01	4469.60
44.5	3904.99	3964.45	4114.62	4333.18	4428.87
45.0	3859.51	3919.45	4071.80	4293.14	4389.31
45.5	3814.19	3874.22	4028.89	4252.92	4349.26
46.0	3767.27	3827.30	3984.55	4211.68	4307.98
46.5	3721.51	3781.64	3941.19	4170.91	4267.50
47.0	3674.01	3734.71	3896.65	4129.21	4226.01
47.5	3627.93	3688.31	3853.09	4088.11	4185.52
48.0	3580.73	3640.91	3808.34	4045.79	4144.47
48.5	3533.87	3594.36	3764.35	4004.72	4103.79
49.0	3485.84	3546.47	3719.41	3962.29	4062.18
49.5	3438.80	3499.67	3675.42	3920.92	4021.88
50.0	3391.37	3452.71	3631.20	3879.66	3981.41
50.5	3344.05	3404.23	3586.55	3837.09	3940.46
51.0	3296.28	3357.22	3542.29	3795.76	3899.91
51.5	3247.70	3308.60	3497.06	3754.00	3858.76
52.0	3200.33	3261.35	3453.29	3712.95	3818.73
52.5	3151.56	3212.64	3408.11	3670.97	3777.74
53.0	3104.01	3165.22	3364.25	3630.16	3737.90
53.5	3054.77	3116.34	3319.12	3588.36	3696.92
54.0	3007.18	3068.63	3275.39	3547.73	3657.18
54.5	2959.23	3021.01	3231.72	3507.49	3617.29

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HBIA24-LED175DMVFR35- LLIA000974-006.IES****CANDELA TABULATION - (Cont.)**

55.0	2909.96	2971.93	3186.85	3466.17	3576.38
55.5	2861.96	2924.20	3143.13	3426.04	3537.13
56.0	2812.67	2875.17	3098.57	3385.00	3496.58
56.5	2764.58	2827.43	3055.33	3344.96	3457.29
57.0	2715.42	2778.62	3011.63	3303.97	3416.77
57.5	2666.79	2730.81	2968.16	3264.33	3377.60
58.0	2617.25	2681.76	2924.33	3223.73	3337.96
58.5	2568.94	2634.14	2881.80	3183.94	3298.69
59.0	2520.26	2586.42	2839.34	3144.57	3259.52
59.5	2471.22	2538.01	2797.11	3104.62	3220.26
60.0	2422.49	2490.49	2755.22	3065.46	3181.69
60.5	2372.84	2441.92	2712.91	3025.54	3142.30
61.0	2324.55	2394.67	2671.91	2986.83	3104.17
61.5	2274.72	2346.30	2630.08	2947.41	3065.06
62.0	2226.06	2299.50	2589.60	2909.14	3027.10
62.5	2175.75	2250.88	2547.83	2869.69	2987.74
63.0	2127.80	2204.50	2508.34	2831.85	2950.20
63.5	2078.86	2157.72	2468.30	2793.86	2912.56
64.0	2030.40	2111.21	2428.94	2756.24	2875.40
64.5	1981.16	2064.53	2389.14	2718.33	2837.75
65.0	1931.83	2018.18	2349.77	2681.18	2800.28
65.5	1882.96	1972.09	2310.88	2644.04	2762.75
66.0	1833.86	1925.95	2272.02	2606.56	2725.51
66.5	1785.18	1880.80	2233.82	2570.25	2688.76
67.0	1735.48	1834.87	2195.19	2532.88	2651.07
67.5	1687.13	1790.24	2157.79	2496.56	2614.55
68.0	1639.16	1746.36	2120.87	2460.92	2578.35
68.5	1589.67	1701.42	2083.16	2424.32	2540.68
69.0	1541.75	1658.08	2046.73	2388.54	2504.01
69.5	1492.48	1613.90	2009.56	2351.90	2465.94
70.0	1444.70	1571.31	1973.58	2315.95	2428.65
70.5	1396.03	1527.96	1937.12	2279.07	2389.72
71.0	1348.16	1486.32	1901.52	2242.66	2350.59
71.5	1299.29	1443.87	1865.29	2204.93	2308.63
72.0	1252.00	1403.24	1830.21	2167.32	2266.36
72.5	1204.45	1363.30	1795.55	2128.68	2223.21
73.0	1157.70	1322.61	1759.98	2088.12	2179.75
73.5	1110.64	1283.63	1725.47	2046.84	2136.73
74.0	1063.08	1244.04	1689.91	2003.94	2092.39
74.5	1016.99	1206.12	1655.07	1962.38	2048.69
75.0	970.03	1167.63	1619.54	1919.43	2001.85
75.5	924.56	1130.59	1584.34	1876.85	1953.69
76.0	878.17	1092.97	1547.84	1831.18	1903.18
76.5	833.67	1057.02	1511.56	1785.07	1853.56
77.0	789.71	1021.61	1474.51	1737.90	1803.77
77.5	745.08	985.65	1435.46	1688.76	1752.38
78.0	701.73	951.12	1396.74	1640.24	1701.84
78.5	658.09	916.31	1356.29	1590.40	1649.96
79.0	616.13	882.42	1315.47	1541.17	1599.41
79.5	573.87	848.31	1272.47	1491.10	1548.23
80.0	533.33	815.22	1228.97	1441.44	1496.76
80.5	492.66	781.69	1183.50	1390.73	1444.83
81.0	453.46	748.95	1138.10	1341.27	1394.50
81.5	415.12	716.57	1092.85	1291.46	1344.48
82.0	378.03	683.91	1045.72	1241.61	1294.05
82.5	341.62	651.24	999.27	1191.66	1244.04

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HBIA24-LED175DMVFR35- LLIA000974-006.IES****CANDELA TABULATION - (Cont.)**

83.0	305.78	617.55	951.54	1140.82	1193.25
83.5	272.13	582.94	904.13	1091.31	1143.81
84.0	238.88	546.83	855.41	1040.28	1094.12
84.5	207.93	510.20	807.10	990.29	1043.35
85.0	177.96	471.24	757.12	937.66	988.31
85.5	150.48	432.26	707.90	882.74	928.26
86.0	124.94	392.87	657.96	821.00	861.04
86.5	100.61	351.26	603.29	749.63	785.98
87.0	79.10	309.92	543.36	676.82	710.97
87.5	59.54	266.14	476.83	600.84	633.70
88.0	42.78	220.94	409.78	527.15	559.27
88.5	28.32	173.83	341.95	453.37	484.91
89.0	16.77	131.27	281.79	386.16	415.81
89.5	8.44	99.46	231.02	328.02	356.95
90.0	3.32	78.68	200.46	290.25	316.68
90.5	0.86	68.48	185.11	271.14	295.14
91.0	0.43	63.82	176.87	260.15	284.33
91.5	0.47	60.03	171.07	252.82	277.15
92.0	0.61	56.35	165.52	246.08	270.34
92.5	0.54	53.03	160.52	239.99	264.02
93.0	0.65	49.94	155.60	233.97	257.62
93.5	0.77	46.99	153.12	228.39	251.59
94.0	0.99	44.08	154.67	223.58	246.36
94.5	1.11	41.12	157.77	222.43	243.54
95.0	1.16	38.23	162.92	226.57	245.35
95.5	1.45	35.45	168.43	236.32	253.41
96.0	1.69	32.86	168.84	248.56	267.08
96.5	1.99	30.48	162.05	262.45	284.42
97.0	2.27	28.49	152.05	276.61	303.15
97.5	2.72	26.92	138.51	286.42	322.32
98.0	3.07	25.82	124.64	285.71	336.71
98.5	3.55	25.21	113.00	271.83	340.06
99.0	3.76	24.85	105.32	251.40	329.10
99.5	3.99	24.40	98.94	228.13	307.18
100.0	4.11	23.64	94.00	203.22	278.68
100.5	4.15	22.47	89.58	179.45	249.25
101.0	4.34	20.68	85.37	159.62	218.88
101.5	4.59	18.72	81.54	147.54	190.89
102.0	4.78	16.77	77.98	140.06	169.53
102.5	4.98	15.12	74.76	134.69	157.04
103.0	5.28	13.40	71.83	129.90	150.01
103.5	5.50	11.94	69.62	125.49	145.21
104.0	5.86	10.77	68.36	121.40	140.72
104.5	6.08	10.46	67.94	117.20	136.28
105.0	6.29	9.75	68.24	113.38	132.09
105.5	6.63	8.97	68.97	109.71	128.05
106.0	6.95	8.21	69.93	106.15	124.17
106.5	7.22	7.80	71.00	103.03	120.47
107.0	7.52	7.42	72.04	100.55	116.82
107.5	7.90	7.19	72.72	98.75	113.59
108.0	8.19	7.12	72.41	97.80	110.94
108.5	8.54	7.07	70.95	97.73	108.85
109.0	8.93	7.09	67.86	98.39	107.50
109.5	9.21	7.06	64.13	99.49	107.11
110.0	9.59	7.11	59.93	101.03	107.48
110.5	9.83	7.20	55.73	102.58	108.48

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HBI A24-LED175DMVFR35- LLIA000974-006.IES****CANDELA TABULATION - (Cont.)**

111.0	10.21	7.29	51.55	104.34	110.05
111.5	10.48	7.36	47.53	106.20	111.88
112.0	10.90	7.45	43.73	107.92	113.75
112.5	11.19	7.61	39.91	109.20	115.74
113.0	11.69	7.68	36.42	109.28	117.77
113.5	12.11	7.87	33.12	107.42	119.89
114.0	12.42	7.98	30.19	103.99	121.48
114.5	12.75	8.06	27.61	99.59	122.52
115.0	13.18	8.23	26.80	94.63	121.14
115.5	13.66	8.36	26.09	89.16	117.83
116.0	14.06	8.53	23.95	83.81	113.75
116.5	14.54	8.69	22.02	78.35	108.73
117.0	14.91	8.83	20.06	73.10	103.23
117.5	15.37	9.02	18.09	68.11	97.42
118.0	15.91	9.29	16.53	62.96	91.41
118.5	16.31	9.41	15.22	58.29	85.67
119.0	16.72	9.66	14.11	53.58	79.93
119.5	17.21	9.86	13.34	49.26	74.43
120.0	17.72	10.18	12.84	45.45	68.98
120.5	18.12	10.35	12.56	41.76	63.88
121.0	18.56	10.71	12.56	39.90	59.04
121.5	19.11	10.94	12.81	38.71	54.48
122.0	19.64	11.29	13.03	37.00	50.33
122.5	20.12	11.54	13.32	35.12	46.40
123.0	20.63	11.81	13.59	32.58	44.47
123.5	21.19	12.22	13.88	29.80	42.78
124.0	21.73	12.57	14.31	27.24	41.03
124.5	22.36	13.04	14.59	24.89	39.54
125.0	22.84	13.37	14.94	22.70	36.37
125.5	23.48	13.76	15.31	21.00	33.23
126.0	24.05	14.17	15.61	19.83	30.47
126.5	24.67	14.62	15.95	18.86	27.76
127.0	25.28	14.97	16.27	18.20	25.52
127.5	25.90	15.28	16.57	17.88	23.51
128.0	26.56	15.76	16.94	17.90	21.99
128.5	27.22	16.10	17.26	18.21	20.77
129.0	27.79	16.48	17.52	18.59	20.03
129.5	28.39	16.87	17.81	19.00	19.75
130.0	28.94	17.24	18.10	19.41	19.61
130.5	29.56	17.61	18.30	19.80	19.85
131.0	30.21	17.97	18.58	20.18	20.16
131.5	30.69	18.33	18.72	20.54	20.56
132.0	31.21	18.66	18.97	20.92	20.94
132.5	31.72	19.19	19.15	21.29	21.23
133.0	32.31	19.74	19.29	21.51	21.51
133.5	32.71	20.44	19.43	21.75	21.89
134.0	33.16	21.09	19.59	21.91	22.23
134.5	33.68	21.76	19.71	22.07	22.47
135.0	34.08	22.44	19.81	22.21	22.64
135.5	34.52	23.18	19.90	22.30	22.87
136.0	34.90	24.00	20.03	22.27	23.04
136.5	35.30	24.73	20.16	22.31	23.07
137.0	35.58	25.44	20.29	22.22	23.01
137.5	35.98	26.12	20.42	22.12	23.02
138.0	36.32	26.67	20.54	22.03	22.94
138.5	36.58	27.09	20.64	21.88	22.94

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HBIA24-LED175DMVFR35- LLIA000974-006.IES****CANDELA TABULATION - (Cont.)**

139.0	36.81	27.44	20.72	21.68	22.75
139.5	37.05	27.66	20.80	21.59	22.60
140.0	37.27	27.79	20.97	21.43	22.43
140.5	37.53	27.94	21.00	21.24	22.18
141.0	37.70	27.97	21.16	21.14	22.03
141.5	37.88	27.95	21.22	20.95	21.78
142.0	38.22	27.84	21.43	20.79	21.55
142.5	38.44	27.74	21.47	20.68	21.33
143.0	38.63	27.65	21.67	20.59	21.14
143.5	38.94	27.54	21.70	20.50	21.07
144.0	39.16	27.41	21.80	20.48	20.94
144.5	39.36	27.34	21.79	20.57	20.80
145.0	39.67	27.29	21.82	20.57	20.72
145.5	39.94	27.29	21.78	20.80	20.84
146.0	40.27	27.30	21.73	20.99	20.87
146.5	40.50	27.36	21.68	21.15	20.88
147.0	40.89	27.41	21.61	21.38	20.97
147.5	41.12	27.53	21.52	21.58	21.04
148.0	41.38	27.73	21.47	21.83	21.32
148.5	41.66	27.85	21.50	21.92	21.39
149.0	41.90	27.96	21.54	22.17	21.50
149.5	42.06	28.19	22.03	22.37	21.68
150.0	42.30	28.46	22.86	22.50	21.92
150.5	42.50	28.76	23.86	22.62	22.21
151.0	42.71	29.02	24.94	22.68	22.40
151.5	42.75	29.39	26.00	22.68	22.60
152.0	42.93	29.84	27.28	22.60	22.69
152.5	43.15	30.36	28.34	22.40	22.82
153.0	43.29	30.81	29.20	22.15	22.79
153.5	43.32	31.32	29.74	21.97	22.80
154.0	43.50	31.85	29.99	21.69	22.52
154.5	43.59	32.38	29.95	21.48	22.32
155.0	43.58	32.88	29.40	21.32	21.91
155.5	43.69	33.38	28.62	21.59	21.73
156.0	43.80	33.91	27.76	22.53	21.53
156.5	43.92	34.43	26.93	23.99	21.28
157.0	43.98	35.11	26.18	25.78	21.47
157.5	44.01	35.69	25.46	27.55	22.31
158.0	44.12	36.25	24.86	29.44	23.81
158.5	44.17	36.79	24.42	30.86	25.77
159.0	44.10	37.23	24.11	31.67	27.55
159.5	44.05	37.78	23.98	31.82	29.67
160.0	43.88	38.25	23.93	31.09	31.08
160.5	43.70	38.70	24.03	29.79	31.75
161.0	43.52	39.11	24.21	28.00	31.68
161.5	43.17	39.48	24.63	26.19	30.74
162.0	42.95	39.90	25.01	24.86	29.21
162.5	42.69	40.23	25.55	24.08	27.13
163.0	42.23	40.51	26.29	23.57	25.37
163.5	41.88	40.72	27.02	23.33	24.42
164.0	41.40	40.93	27.94	23.31	23.74
164.5	41.01	41.06	28.77	23.43	23.50
165.0	40.46	41.16	29.61	23.75	23.24
165.5	40.04	41.21	30.44	24.25	23.42
166.0	39.57	41.26	31.25	24.86	23.73
166.5	39.03	41.23	31.93	25.48	24.12

CANDELA TABULATION - (Cont.)

167.0	38.46	41.12	32.76	26.21	24.83
167.5	37.93	40.98	33.47	27.04	25.63
168.0	37.37	40.85	34.18	27.95	26.59
168.5	36.98	40.77	34.88	28.90	27.67
169.0	36.48	40.54	35.50	29.80	28.66
169.5	36.19	40.30	36.19	30.77	29.48
170.0	35.88	39.97	36.77	31.80	30.16
170.5	35.61	39.71	37.29	32.70	30.91
171.0	35.23	39.32	37.81	33.59	31.46
171.5	34.81	38.91	38.08	34.42	32.00
172.0	34.43	38.53	38.30	35.31	32.53
172.5	34.03	38.05	38.57	36.06	32.99
173.0	33.58	37.68	38.98	36.70	33.47
173.5	33.34	37.23	39.28	37.05	34.39
174.0	32.99	36.84	39.42	37.24	35.24
174.5	32.66	36.18	39.57	37.12	36.09
175.0	32.32	35.63	39.63	37.15	36.60
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-LED175DMVFR35- LLIA000974-006.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2303.34	N.A.	12.10
0-30	4878.04	N.A.	25.60
0-40	7954.38	N.A.	41.80
0-60	13998.26	N.A.	73.50
0-80	17962.59	N.A.	94.30
0-90	18687.96	N.A.	98.10
10-90	18091.3	N.A.	95.00
20-40	5651.04	N.A.	29.70
20-50	8815.83	N.A.	46.30
40-70	8377.96	N.A.	44.00
60-80	3964.33	N.A.	20.80
70-80	1630.25	N.A.	8.60
80-90	725.37	N.A.	3.80
90-110	234.61	N.A.	1.20
90-120	280.67	N.A.	1.50
90-130	299.87	N.A.	1.60
90-150	333.42	N.A.	1.80
90-180	358.82	N.A.	1.90
110-180	124.22	N.A.	0.70
0-180	19046.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

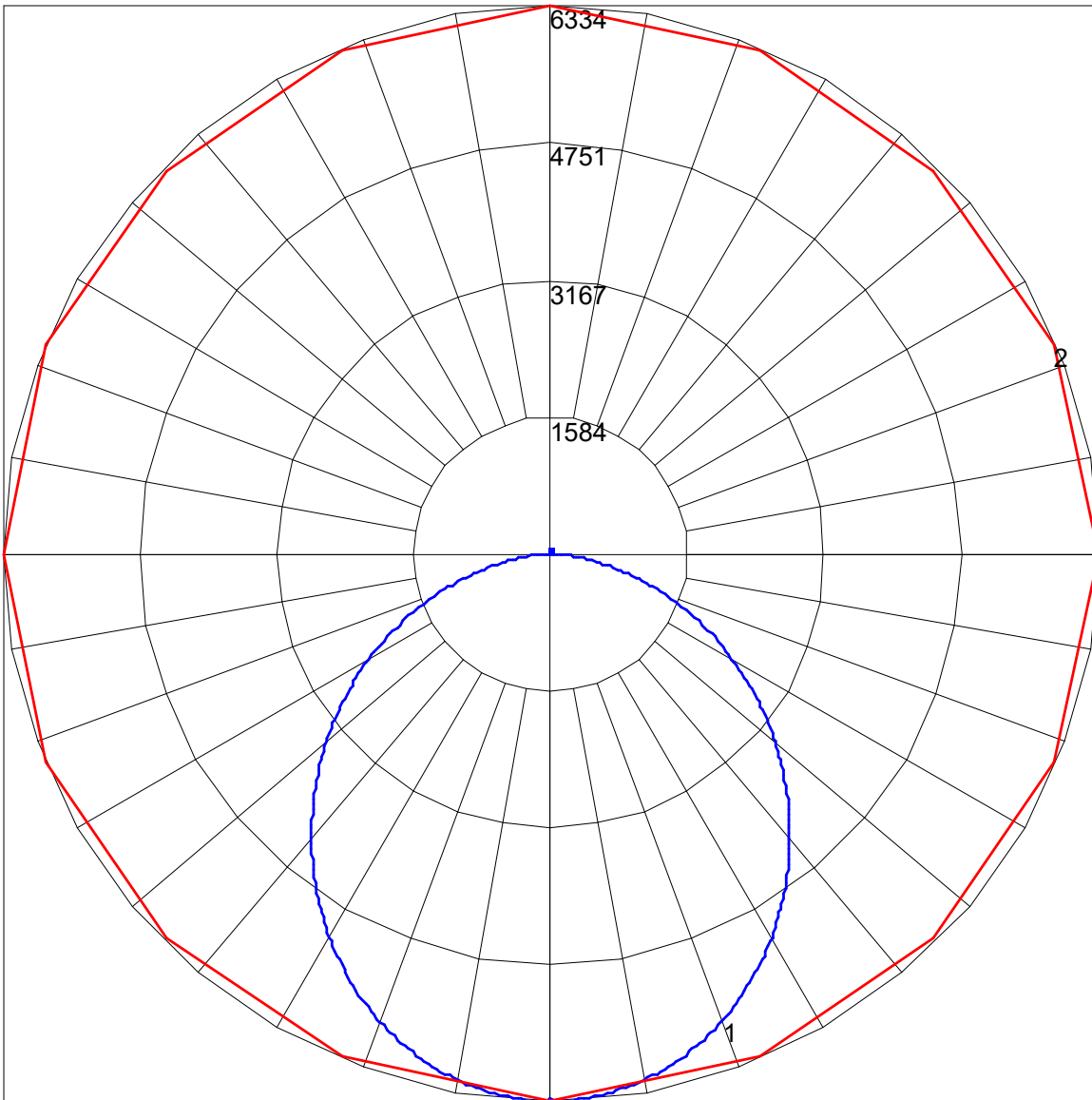
Zone	Lumens
0-10	596.67
10-20	1706.67
20-30	2574.71
30-40	3076.33
40-50	3164.78
50-60	2879.1
60-70	2334.08
70-80	1630.25
80-90	725.37
90-100	159.67
100-110	74.93
110-120	46.07
120-130	19.19
130-140	17.71
140-150	15.84
150-160	13.56
160-170	9.16
170-180	2.68

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	107	102	97	93	104	99	95	91	95	91	88	91	88	85	87	84	82	80
2	97	88	81	75	94	86	80	74	82	77	72	79	74	70	75	72	68	66
3	88	77	69	62	86	76	68	61	72	65	60	69	63	59	66	61	57	55
4	81	68	59	52	78	67	58	52	64	57	51	61	55	50	59	54	49	47
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	53	47	43	40
6	68	55	46	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	64	50	41	35	62	49	40	34	47	39	34	45	39	34	44	38	33	31
8	59	45	37	31	57	45	36	31	43	36	30	42	35	30	40	34	30	28
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

POLAR GRAPH



Maximum Candela = 6334.21 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.)