



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HBIA48-LED355DMV35- LLIA000974-012.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA000974-012A
 [TESTLAB] LightLab International Allentown, LLC
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA
 [LUMCAT] HBIA48-LED355DMV35
 [LUMINAIRE] Catalog Number: HBIA48-LED355DMV35
 [MORE] Pendant/surface mounted, formed steel housing, formed
 [MORE] aluminum LED mounting plates, no enclosure.
 [MORE] 1248 white LEDs, eight ULT Everline M18CC835D156N2S50C LED boards with 156 LEDs each.
 [MORE] Four ULT Everline D23CC90UNVTW-F LED drivers each set at 2040mA
 [MORE] 120.0Vac, 60.00Hz, 2.951A, 353.4W, 0.998PF, 5.8%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: Wednesday, May 2, 2018 9:45:46 AM
 [ISSUE DATE] Wednesday, May 2, 2018 9:45:46 AM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	46973
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	353.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.15 m
Luminous Width (90-270)	0.48 m
Luminous Height	0.02 m

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBIA48-LED355DMV35- LLIA000974-012.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	30087	28896	28828
55	28907	27628	27364
65	26502	25063	21208
75	20886	10156	1746
85	9152	521	500

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	16868.97116868.97116868.97116868.97116868.971				
0.5	16931.50016867.44916853.16016836.21116900.740				
1.0	16928.98016865.26016850.78916833.72116898.250				
1.5	16925.09016861.67016846.93016829.77916893.580				
2.0	16919.86916856.86916841.41016823.68916887.381				
2.5	16913.35016850.68916834.19916815.96116879.891				
3.0	16905.31116843.21116825.10016805.99016868.939				
3.5	16896.50016834.61916815.16016794.53916856.650				
4.0	16886.39116824.02916803.31116781.24016842.910				
4.5	16874.91016812.39116789.78916766.44916827.250				
5.0	16862.39116799.68916775.44916749.77016810.480				
5.5	16848.05116785.28916759.47116729.80116791.590				
6.0	16833.53916770.32016742.06116709.35016770.400				
6.5	16817.30116753.02916721.80116686.24016746.029				
7.0	16800.23016734.55116700.53916661.93016719.211				
7.5	16781.09016714.27916676.97116635.10916692.199				
8.0	16761.00016693.83016652.26016607.38116664.641				
8.5	16739.21116671.17016625.55116577.06116634.350				
9.0	16716.92016647.13116598.10016546.42016603.230				
9.5	16693.93016622.43016569.16016514.07016569.590				
10.0	16668.68916595.84016538.68916480.26016535.260				
10.5	16643.18916568.46116506.88116444.26016498.070				
11.0	16616.09016539.28916473.17016406.58016460.881				
11.5	16588.43016509.55116438.55116368.73016423.779				
12.0	16558.81116477.51016401.78916328.83016384.330				
12.5	16528.15016445.56116364.48016289.40016345.090				
13.0	16496.14116411.66016325.42016247.72016303.830				
13.5	16464.02916377.48016286.18016206.15016263.600				
14.0	16430.90016342.38016245.67016163.72016222.500				
14.5	16395.21116303.39016202.71016119.51016179.280				
15.0	16359.22016264.74016159.05016075.82016136.100				
15.5	16320.96016224.29016112.91016030.10016091.380				
16.0	16282.88016182.82016067.17015984.58016046.220				
16.5	16242.44016138.84016019.05015937.36016000.180				
17.0	16201.66016094.61015971.24015890.18015954.530				
17.5	16158.45016048.03015921.26015841.39015906.820				
18.0	16115.17016001.51015871.58015793.91015858.980				
18.5	16071.12015953.84015821.21015745.29015811.010				
19.0	16024.41015903.60015768.87015695.98015761.280				
19.5	15976.29015852.59015715.61015645.67015712.270				
20.0	15927.23015798.98015661.29015593.10015660.350				
20.5	15879.71015745.35015606.95015542.24015609.010				
21.0	15828.65015689.95015549.59015488.39015555.380				
21.5	15777.31015635.53015493.40015436.03015502.950				
22.0	15722.70015577.60015434.79015381.01015447.970				
22.5	15668.80015520.55015376.84015326.43015393.340				
23.0	15614.13015462.65015317.70015270.50015336.650				
23.5	15557.00015401.17015255.94015211.99015277.120				
24.0	15500.17015340.21015194.50015153.49015217.060				
24.5	15440.69015276.90015130.45015092.52015154.440				
25.0	15381.37015212.33015067.78015032.31015092.180				
25.5	15320.28015146.72015002.56014970.49015026.640				
26.0	15258.41015081.92014937.54014908.22014960.190				
26.5	15193.21015013.23014869.00014843.35014891.190				

CANDELA TABULATION - (Cont.)

27.0	15129.00014944.81014802.15014778.68014823.850
27.5	15062.67014875.56014734.57014713.86014755.650
28.0	14994.29014803.91014663.69014646.14014683.470
28.5	14923.98014731.55014592.88014578.89014612.760
29.0	14848.35014656.40014519.48014508.38014538.830
29.5	14772.30014581.50014448.45014438.20014465.880
30.0	14689.96014503.22014373.88014364.67014389.110
30.5	14609.22014424.50014300.49014292.54014312.300
31.0	14522.90014341.67014223.03014217.33014232.070
31.5	14438.59014258.12014146.33014142.89014152.680
32.0	14353.50014173.51014069.68014066.98014072.840
32.5	14264.82014083.80013990.07013987.95013988.970
33.0	14177.83013994.33013910.24013909.53013906.380
33.5	14088.24013901.82013827.96013828.95013822.850
34.0	14002.83013808.94013745.47013748.06013739.020
34.5	13915.94013714.36013662.00013666.37013652.220
35.0	13828.25013619.66013575.84013581.64013564.780
35.5	13742.23013525.79013491.26013495.94013476.340
36.0	13655.72013431.74013404.05013410.32013387.560
36.5	13568.88013338.31013317.10013323.83013298.300
37.0	13477.52013242.59013225.92013232.86013203.910
37.5	13386.34013148.75013136.01013143.39013110.830
38.0	13292.84013052.09013042.30013049.86013015.000
38.5	13196.78012957.74012949.65012957.84012919.370
39.0	13094.80012859.77012851.78012862.01012821.560
39.5	12991.37012763.64012755.14012767.93012725.040
40.0	12882.88012663.60012654.24012670.50012623.930
40.5	12774.97012564.64012554.17012574.03012525.570
41.0	12666.09012462.51012452.91012475.60012425.040
41.5	12553.26012357.65012347.09012375.27012321.830
42.0	12443.29012251.76012242.65012274.01012218.060
42.5	12331.71012141.51012135.79012171.29012111.050
43.0	12224.62012032.32012028.77012068.00012004.310
43.5	12116.17011919.91011918.31011962.04011895.300
44.0	12010.24011808.07011809.53011856.39011784.570
44.5	11900.61011692.55011697.10011747.73011670.400
45.0	11792.61011580.50011585.87011640.52011558.170
45.5	11683.46011468.40011474.65011532.88011444.130
46.0	11567.97011352.14011360.35011420.03011325.330
46.5	11450.48011237.25011247.26011309.26011207.390
47.0	11325.74011119.64011130.66011193.94011086.000
47.5	11203.28011002.97011015.47011080.26010967.330
48.0	11074.46010883.89010897.04010962.71010843.650
48.5	10948.66010766.14010780.46010846.41010723.270
49.0	10820.38010644.01010659.93010725.56010597.580
49.5	10695.13010523.02010540.17010604.78010475.130
50.0	10572.56010402.33010419.95010484.52010351.060
50.5	10448.66010276.21010295.09010358.53010222.060
51.0	10327.94010151.06010172.49010233.35010095.880
51.5	10202.65010024.27010047.78010106.9609964.550
52.0	10078.4009899.640 9922.500 9978.870 9838.360
52.5	9947.840 9771.320 9792.370 9846.610 9707.380
53.0	9813.230 9646.940 9664.400 9716.220 9578.780
53.5	9673.270 9517.330 9531.480 9580.870 9445.550
54.0	9534.320 9390.140 9401.050 9448.120 9314.400
54.5	9396.120 9261.800 9270.440 9314.510 9182.720

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBIA48-LED355DMV35- LLIA000974-012.IES

CANDELA TABULATION - (Cont.)

55.0	9254.800	9127.710	9133.710	9174.930	9045.770
55.5	9121.220	8993.310	9000.850	9038.640	8910.060
56.0	8985.370	8853.780	8863.310	8898.670	8770.540
56.5	8852.970	8716.840	8729.060	8759.790	8633.420
57.0	8713.270	8575.100	8590.460	8616.790	8490.310
57.5	8570.850	8436.090	8454.950	8476.050	8350.730
58.0	8421.540	8295.330	8316.840	8329.970	8206.000
58.5	8272.770	8158.690	8179.450	8186.480	8063.130
59.0	8126.950	8021.380	8042.170	8041.330	7918.640
59.5	7980.040	7883.510	7899.890	7893.170	7771.230
60.0	7841.740	7743.990	7759.930	7745.370	7624.470
60.5	7698.910	7597.890	7616.240	7592.800	7474.160
61.0	7554.070	7453.110	7473.110	7442.840	7327.760
61.5	7400.390	7301.470	7326.230	7287.660	7177.320
62.0	7246.990	7151.890	7181.370	7135.770	7030.920
62.5	7089.600	6995.710	7030.240	6978.080	6877.770
63.0	6942.720	6847.630	6883.230	6826.610	6708.570
63.5	6797.450	6699.980	6732.100	6673.200	6477.150
64.0	6645.230	6551.290	6580.440	6519.500	6163.480
64.5	6487.430	6400.560	6426.570	6354.190	5782.080
65.0	6324.370	6247.000	6270.360	6149.030	5305.310
65.5	6165.980	6093.700	6114.820	5871.500	4774.810
66.0	6013.450	5934.340	5956.980	5514.210	4264.560
66.5	5856.950	5776.070	5799.570	5088.510	3831.000
67.0	5691.840	5615.970	5638.930	4590.440	3486.800
67.5	5530.130	5462.390	5481.240	4098.080	3202.980
68.0	5375.250	5311.250	5326.120	3658.920	2946.580
68.5	5215.770	5152.400	5167.250	3291.250	2742.300
69.0	5054.410	4995.600	5011.790	3005.930	2605.080
69.5	4888.090	4837.370	4843.540	2741.210	2507.380
70.0	4731.400	4680.470	4659.830	2537.040	2426.310
70.5	4567.200	4518.880	4428.290	2393.970	2346.450
71.0	4406.510	4362.180	4130.990	2298.000	2261.030
71.5	4243.140	4200.530	3741.290	2215.070	2121.140
72.0	4084.190	4042.940	3321.330	2132.790	1913.660
72.5	3925.000	3887.780	2930.530	2029.980	1632.140
73.0	3762.890	3729.280	2559.320	1865.160	1321.500
73.5	3606.170	3573.060	2249.720	1624.870	969.230
74.0	3444.510	3416.880	1986.520	1332.120	610.970
74.5	3290.720	3262.070	1782.650	1023.280	426.860
75.0	3129.930	3107.450	1646.940	681.590	283.090
75.5	2978.000	2955.550	1558.000	435.030	153.960
76.0	2819.760	2800.490	1470.400	288.880	90.840
76.5	2668.410	2652.080	1359.650	159.980	74.340
77.0	2521.750	2504.450	1204.850	91.940	71.060
77.5	2371.800	2354.610	943.750	72.870	68.410
78.0	2226.020	2210.700	691.730	68.860	65.810
78.5	2078.440	2053.160	492.800	65.960	63.090
79.0	1937.500	1874.440	279.730	63.100	60.450
79.5	1795.320	1647.460	150.280	60.050	57.920
80.0	1660.520	1351.270	79.970	57.110	55.750
80.5	1523.410	1129.510	62.400	54.540	53.640
81.0	1395.790	952.330	58.320	52.250	52.000
81.5	1271.150	756.730	55.020	50.280	50.450
82.0	1148.200	624.480	51.690	48.470	48.810
82.5	1032.060	543.920	48.610	46.810	47.290

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBIA48-LED355DMV35- LLIA000974-012.IES

CANDELA TABULATION - (Cont.)

83.0	917.680	421.320	45.790	45.080	45.570
83.5	810.800	269.460	43.310	43.270	43.600
84.0	706.030	191.380	40.800	40.960	41.180
84.5	610.260	84.920	38.590	38.390	38.200
85.0	517.390	52.990	36.070	35.180	34.600
85.5	433.030	47.560	33.570	31.530	30.630
86.0	354.950	43.010	30.470	27.620	26.770
86.5	279.730	38.650	26.940	23.760	23.230
87.0	209.650	34.570	23.280	20.430	19.780
87.5	143.490	30.640	19.450	17.360	16.930
88.0	85.670	26.650	16.620	14.560	13.960
88.5	44.270	22.640	13.980	11.460	10.690
89.0	27.130	19.350	11.350	8.450	7.550
89.5	10.120	16.950	8.690	5.640	4.660
90.0	1.470	14.620	6.430	3.230	2.100
90.5	1.060	10.920	4.920	1.990	0.790
91.0	1.100	7.600	4.060	1.680	0.690
91.5	1.140	5.910	3.380	1.470	0.590
92.0	1.340	5.100	2.920	1.350	0.600
92.5	1.310	4.660	2.580	1.250	0.570
93.0	1.450	4.320	2.350	1.220	0.630
93.5	1.560	4.030	2.270	1.290	0.740
94.0	1.780	3.670	2.300	1.300	0.880
94.5	2.270	3.570	2.420	1.330	0.930
95.0	2.650	3.400	2.520	1.460	0.990
95.5	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBIA48-LED355DMV35- LLIA000974-012.IES

CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBIA48-LED355DMV35- LLIA000974-012.IES

CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000

CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBIA48-LED355DMV35- LLIA000974-012.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6165.46	N.A.	13.10
0-30	13144.85	N.A.	28.00
0-40	21667.18	N.A.	46.10
0-60	38792.27	N.A.	82.60
0-80	46783.13	N.A.	99.60
0-90	46971.06	N.A.	100.00
10-90	45375.88	N.A.	96.60
20-40	15501.73	N.A.	33.00
20-50	24461.48	N.A.	52.10
40-70	22999.57	N.A.	49.00
60-80	7990.85	N.A.	17.00
70-80	2116.37	N.A.	4.50
80-90	187.94	N.A.	0.40
90-110	1.67	N.A.	0.00
90-120	1.67	N.A.	0.00
90-130	1.67	N.A.	0.00
90-150	1.67	N.A.	0.00
90-180	1.67	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	46972.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

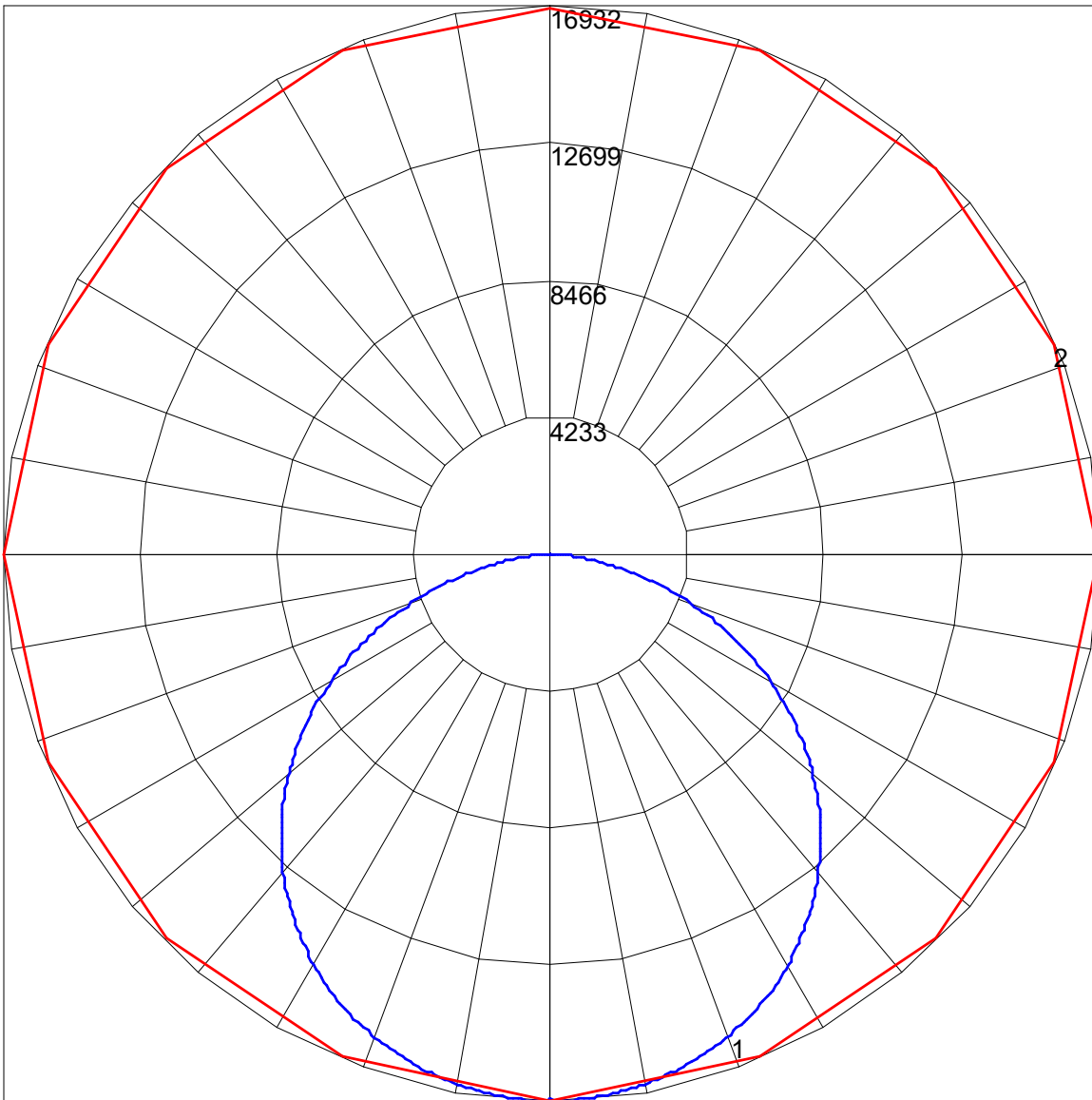
Zone	Lumens
0-10	1595.18
10-20	4570.28
20-30	6979.4
30-40	8522.33
40-50	8959.75
50-60	8165.34
60-70	5874.48
70-80	2116.37
80-90	187.94
90-100	1.67
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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	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	77	84	79	76	81	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	35	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 = 16931.5 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.)