



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : FHBC48-LED144DMV35.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LLIA000738-004-R01  
 [TESTLAB] LightLab International Allentown, LLC  
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA  
 [LUMCAT] FHBC48-LED144DMV35  
 [LUMINAIRE] Catalog Number: FHBC48-LED144DMV35  
 [MORE] White formed steel housing, silver matte aluminum reflector, no enclosure.  
 [MORE] 448 White LEDs, Eight boards with 56 LEDs each.  
 [MORE] One Philips Advance Xitanium XI190C275V054BSG1 LED driver.  
 [MORE] 120.0Vac, 60.0Hz, 1.613A, 193.1W, 0.998PF, 5.34%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 3.808a.  
 [DATE] This file extrapolated from LLIA738-004-R01 Tuesday, April 25, 2017  
 [ISSUEDATE] Monday, March 13, 2017 2:10:35 PM

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20066
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	144
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)	1.22 m
Luminous Width (90-270)	0.41 m
Luminous Height	0.01 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13778	13411	13235
55	13562	13027	12819
65	12506	12072	11789
75	9902	9547	4595
85	3880	374	294

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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	6823.185	6823.185	6823.185	6823.185	6823.185
0.5	6850.688	6828.172	6817.305	6811.927	6817.950
1.0	6849.870	6827.288	6816.645	6811.440	6816.922
1.5	6848.325	6825.840	6815.685	6810.390	6815.265
2.0	6845.715	6824.115	6814.305	6808.815	6813.547
2.5	6842.962	6821.587	6812.542	6806.850	6811.672
3.0	6839.797	6818.700	6810.458	6804.405	6809.115
3.5	6836.273	6815.460	6808.035	6801.420	6805.642
4.0	6831.780	6811.965	6805.020	6797.970	6802.028
4.5	6826.680	6807.637	6801.525	6794.325	6798.015
5.0	6820.995	6802.552	6797.655	6789.900	6793.725
5.5	6814.672	6796.980	6792.967	6785.123	6788.858
6.0	6808.087	6791.227	6788.063	6779.873	6783.135
6.5	6800.580	6785.025	6782.977	6773.895	6777.097
7.0	6792.757	6778.403	6777.225	6767.700	6770.557
7.5	6784.575	6771.420	6770.887	6761.295	6763.762
8.0	6775.552	6764.070	6764.167	6754.342	6756.233
8.5	6765.900	6756.480	6756.788	6746.925	6748.095
9.0	6755.970	6748.350	6749.002	6738.908	6739.913
9.5	6745.215	6739.583	6740.820	6730.073	6730.905
10.0	6733.597	6730.425	6731.783	6720.727	6722.017
10.5	6722.092	6721.012	6722.475	6711.922	6716.587
11.0	6709.927	6710.910	6712.658	6703.875	6713.415
11.5	6697.148	6699.847	6702.120	6697.905	6708.600
12.0	6684.517	6688.342	6691.530	6693.765	6700.328
12.5	6670.920	6676.163	6680.460	6687.780	6688.665
13.0	6656.700	6663.555	6668.842	6677.993	6673.620
13.5	6642.720	6650.498	6656.880	6665.355	6657.690
14.0	6627.908	6637.118	6645.083	6650.663	6640.545
14.5	6612.345	6623.078	6634.260	6634.575	6623.153
15.0	6596.828	6608.828	6624.990	6617.498	6605.903
15.5	6581.205	6594.135	6615.930	6599.557	6588.007
16.0	6565.365	6578.483	6605.925	6581.467	6569.033
16.5	6549.368	6562.672	6593.850	6563.265	6550.477
17.0	6533.092	6546.307	6579.413	6544.860	6531.698
17.5	6516.150	6529.350	6563.033	6526.230	6512.887
18.0	6499.042	6512.100	6544.748	6507.300	6493.800
18.5	6482.190	6494.243	6525.052	6488.505	6473.970
19.0	6464.333	6475.665	6504.315	6468.330	6453.645
19.5	6446.175	6456.983	6483.495	6448.635	6433.065
20.0	6427.485	6437.700	6462.330	6428.415	6411.788
20.5	6407.565	6417.727	6440.273	6407.295	6389.813
21.0	6388.297	6397.297	6418.613	6386.377	6368.212
21.5	6368.438	6376.222	6396.045	6364.507	6345.637
22.0	6347.940	6354.465	6372.592	6341.842	6323.100
22.5	6327.292	6332.715	6349.507	6319.665	6299.752
23.0	6306.323	6310.672	6326.002	6296.925	6276.278
23.5	6284.212	6288.023	6301.792	6272.993	6252.052
24.0	6261.998	6264.990	6277.590	6249.038	6227.512
24.5	6239.137	6241.755	6252.863	6224.917	6202.200
25.0	6215.587	6218.438	6227.160	6199.868	6176.347
25.5	6192.488	6195.488	6201.653	6174.727	6149.580
26.0	6168.802	6173.040	6176.070	6149.115	6122.730
26.5	6144.142	6150.210	6149.520	6122.273	6094.538

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**CANDELA TABULATION - (Cont.)**

<b>27.0</b>	6119.175	6127.807	6122.738	6094.988	6067.035
<b>27.5</b>	6093.585	6105.382	6095.108	6067.148	6038.783
<b>28.0</b>	6066.863	6081.608	6066.195	6038.212	6010.222
<b>28.5</b>	6041.092	6056.873	6037.462	6009.712	5981.512
<b>29.0</b>	6014.347	6031.410	6007.950	5980.710	5952.570
<b>29.5</b>	5986.680	6004.417	5977.845	5950.523	5922.833
<b>30.0</b>	5958.810	5976.570	5948.100	5920.770	5892.885
<b>30.5</b>	5930.685	5947.568	5917.717	5890.568	5862.405
<b>31.0</b>	5901.660	5916.833	5886.517	5859.352	5830.943
<b>31.5</b>	5872.350	5885.783	5855.310	5828.137	5799.337
<b>32.0</b>	5842.448	5854.545	5823.248	5796.270	5767.342
<b>32.5</b>	5811.653	5822.265	5790.210	5763.398	5734.703
<b>33.0</b>	5781.158	5789.130	5757.608	5730.892	5701.890
<b>33.5</b>	5749.530	5755.342	5724.780	5698.035	5668.575
<b>34.0</b>	5716.920	5720.670	5690.670	5663.955	5634.240
<b>34.5</b>	5684.903	5686.635	5656.688	5630.257	5600.265
<b>35.0</b>	5651.903	5651.520	5622.142	5595.840	5565.547
<b>35.5</b>	5617.425	5615.693	5586.480	5560.342	5529.998
<b>36.0</b>	5582.505	5579.917	5550.802	5524.710	5494.380
<b>36.5</b>	5548.035	5544.113	5515.800	5489.392	5458.515
<b>37.0</b>	5513.047	5507.160	5478.863	5452.733	5421.953
<b>37.5</b>	5477.115	5470.485	5442.413	5416.042	5385.877
<b>38.0</b>	5440.627	5433.653	5405.467	5378.752	5349.203
<b>38.5</b>	5402.565	5395.313	5367.750	5340.090	5311.140
<b>39.0</b>	5364.967	5357.137	5330.198	5302.245	5272.852
<b>39.5</b>	5326.748	5318.302	5292.390	5263.035	5234.205
<b>40.0</b>	5287.852	5278.590	5253.307	5222.498	5194.710
<b>40.5</b>	5248.342	5239.860	5214.113	5182.552	5155.860
<b>41.0</b>	5208.780	5199.975	5174.685	5142.458	5116.252
<b>41.5</b>	5168.685	5159.198	5133.660	5101.087	5075.280
<b>42.0</b>	5128.455	5118.727	5092.658	5060.475	5035.035
<b>42.5</b>	5088.105	5077.155	5051.415	5019.345	4994.430
<b>43.0</b>	5045.813	5035.583	5009.498	4976.970	4952.632
<b>43.5</b>	5003.670	4993.762	4967.002	4934.587	4910.993
<b>44.0</b>	4961.580	4951.448	4924.462	4891.597	4868.475
<b>44.5</b>	4918.035	4907.663	4880.273	4847.490	4825.005
<b>45.0</b>	4875.120	4864.680	4836.945	4804.245	4781.850
<b>45.5</b>	4831.658	4821.698	4792.613	4760.033	4738.313
<b>46.0</b>	4786.552	4776.922	4747.350	4714.620	4693.972
<b>46.5</b>	4741.740	4732.845	4702.792	4669.755	4649.445
<b>47.0</b>	4696.995	4688.677	4657.485	4624.477	4604.318
<b>47.5</b>	4650.585	4643.160	4611.038	4577.865	4558.320
<b>48.0</b>	4605.547	4597.500	4564.785	4531.448	4512.547
<b>48.5</b>	4558.605	4551.038	4517.715	4484.265	4466.243
<b>49.0</b>	4511.010	4504.057	4469.512	4436.160	4418.595
<b>49.5</b>	4463.677	4457.333	4422.285	4388.190	4371.765
<b>50.0</b>	4415.460	4409.557	4373.887	4339.583	4323.833
<b>50.5</b>	4366.560	4360.440	4324.012	4290.007	4274.055
<b>51.0</b>	4318.740	4312.132	4275.120	4240.275	4225.080
<b>51.5</b>	4269.150	4262.580	4224.983	4190.363	4175.302
<b>52.0</b>	4218.877	4212.398	4173.877	4138.860	4123.373
<b>52.5</b>	4168.778	4162.462	4123.297	4088.003	4072.477
<b>53.0</b>	4117.658	4112.212	4072.102	4036.207	4020.615
<b>53.5</b>	4066.358	4060.485	4019.265	3983.497	3967.358
<b>54.0</b>	4014.975	4009.448	3966.780	3931.095	3914.948
<b>54.5</b>	3963.060	3957.045	3914.025	3877.432	3861.660

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**CANDELA TABULATION - (Cont.)**

55.0	3910.043	3903.443	3859.117	3822.608	3806.925
55.5	3857.423	3850.657	3805.762	3768.532	3753.600
56.0	3804.045	3796.838	3751.372	3714.030	3699.577
56.5	3746.662	3741.585	3695.550	3657.653	3643.845
57.0	3688.890	3685.215	3640.410	3601.912	3589.088
57.5	3627.802	3627.832	3584.903	3545.505	3533.715
58.0	3566.010	3567.915	3527.565	3488.318	3477.330
58.5	3505.080	3510.360	3471.705	3431.468	3421.463
59.0	3444.157	3453.075	3415.012	3373.965	3364.418
59.5	3379.290	3394.530	3356.843	3315.847	3305.573
60.0	3318.690	3334.597	3299.595	3258.653	3247.838
60.5	3258.068	3273.202	3241.838	3200.617	3188.948
61.0	3194.617	3207.465	3182.392	3141.720	3128.415
61.5	3130.515	3140.438	3123.338	3083.145	3068.490
62.0	3067.162	3074.445	3063.285	3024.075	3008.378
62.5	3003.952	3008.963	3000.885	2963.295	2946.795
63.0	2937.577	2946.780	2939.108	2903.415	2885.640
63.5	2873.198	2884.073	2875.845	2842.597	2823.593
64.0	2807.767	2818.582	2813.100	2780.528	2760.840
64.5	2741.745	2751.637	2751.375	2719.043	2698.515
65.0	2676.750	2685.758	2689.530	2656.320	2636.318
65.5	2610.000	2617.807	2625.540	2592.000	2573.423
66.0	2540.325	2550.660	2562.510	2528.730	2512.200
66.5	2473.912	2483.055	2499.045	2465.093	2450.452
67.0	2404.620	2416.800	2435.153	2400.780	2387.205
67.5	2338.950	2351.948	2372.077	2337.128	2325.615
68.0	2273.032	2286.307	2307.705	2273.850	2263.770
68.5	2200.110	2214.900	2242.920	2209.927	2202.097
69.0	2131.800	2147.302	2179.545	2147.100	2127.668
69.5	2066.182	2080.170	2114.820	2084.460	2009.543
70.0	1998.727	2013.840	2046.690	2021.550	1882.313
70.5	1926.975	1949.100	1978.582	1944.922	1764.780
71.0	1860.082	1880.340	1909.560	1828.995	1711.890
71.5	1794.638	1809.795	1841.610	1700.835	1661.505
72.0	1724.340	1744.793	1775.828	1606.395	1600.485
72.5	1655.865	1680.660	1709.602	1556.385	1480.860
73.0	1591.088	1609.793	1644.840	1505.047	1340.640
73.5	1519.568	1542.818	1580.737	1424.175	1237.328
74.0	1454.753	1476.195	1516.860	1283.955	1115.565
74.5	1387.410	1409.460	1452.195	1168.680	937.545
75.0	1319.400	1342.110	1361.213	1058.460	659.220
75.5	1255.297	1278.487	1245.832	922.140	396.923
76.0	1186.950	1211.257	1152.068	660.255	281.385
76.5	1123.095	1147.815	1100.168	403.245	264.923
77.0	1059.053	1085.085	1045.410	256.845	249.907
77.5	992.595	1021.680	940.628	238.898	234.833
78.0	931.793	959.242	829.462	224.235	219.847
78.5	869.820	897.855	726.780	209.813	204.637
79.0	807.525	837.053	601.455	195.090	189.735
79.5	747.128	778.898	375.705	180.697	175.575
80.0	687.878	720.660	184.965	166.673	162.090
80.5	629.138	664.950	164.002	153.202	126.015
81.0	573.487	610.117	150.480	137.190	50.557
81.5	519.173	554.550	136.980	74.460	22.710
82.0	464.340	476.527	124.132	30.157	20.738
82.5	413.317	423.442	111.510	24.427	20.235

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**CANDELA TABULATION - (Cont.)**

83.0	364.140	370.890	99.698	23.805	19.740
83.5	316.410	298.447	56.017	23.190	19.245
84.0	272.025	236.678	26.430	22.560	18.750
84.5	229.282	127.927	22.440	21.907	18.165
85.0	187.845	62.347	21.720	21.038	17.310
85.5	150.105	53.265	20.925	20.055	16.470
86.0	115.365	44.843	20.040	19.192	15.773
86.5	82.560	28.297	19.087	18.517	15.172
87.0	53.715	17.565	18.180	17.813	14.505
87.5	32.250	16.380	17.392	16.657	13.050
88.0	17.242	15.330	16.433	14.752	10.838
88.5	14.265	14.287	14.662	12.053	7.965
89.0	11.768	13.260	12.405	9.240	5.063
89.5	5.910	11.918	10.238	6.713	0.000
90.0	0.000	10.762	8.715	5.175	0.000
90.5	0.000	9.210	7.883	4.628	0.000
91.0	0.000	7.298	7.237	4.335	0.000
91.5	0.000	5.543	6.503	4.117	0.000
92.0	0.000	3.982	5.790	3.825	0.000
92.5	0.000	0.000	5.077	3.480	0.000
93.0	0.000	0.000	4.395	3.150	0.000
93.5	0.000	0.000	3.735	0.000	0.000
94.0	0.000	0.000	3.195	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
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

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**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 : FHBC48-LED144DMV35.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



**IES INDOOR REPORT**  
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**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 : FHBC48-LED144DMV35.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2514.15	N.A.	12.50
0-30	5378.69	N.A.	26.80
0-40	8894.9	N.A.	44.30
0-60	16068.54	N.A.	80.10
0-80	19942.83	N.A.	99.40
0-90	20064.67	N.A.	100.00
10-90	19417.91	N.A.	96.80
20-40	6380.75	N.A.	31.80
20-50	10108.53	N.A.	50.40
40-70	9811.32	N.A.	48.90
60-80	3874.29	N.A.	19.30
70-80	1236.61	N.A.	6.20
80-90	121.84	N.A.	0.60
90-110	1.45	N.A.	0.00
90-120	1.45	N.A.	0.00
90-130	1.45	N.A.	0.00
90-150	1.45	N.A.	0.00
90-180	1.45	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	20066.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	646.76
10-20	1867.39
20-30	2864.54
30-40	3516.22
40-50	3727.77
50-60	3445.86
60-70	2637.68
70-80	1236.61
80-90	121.84
90-100	1.45
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

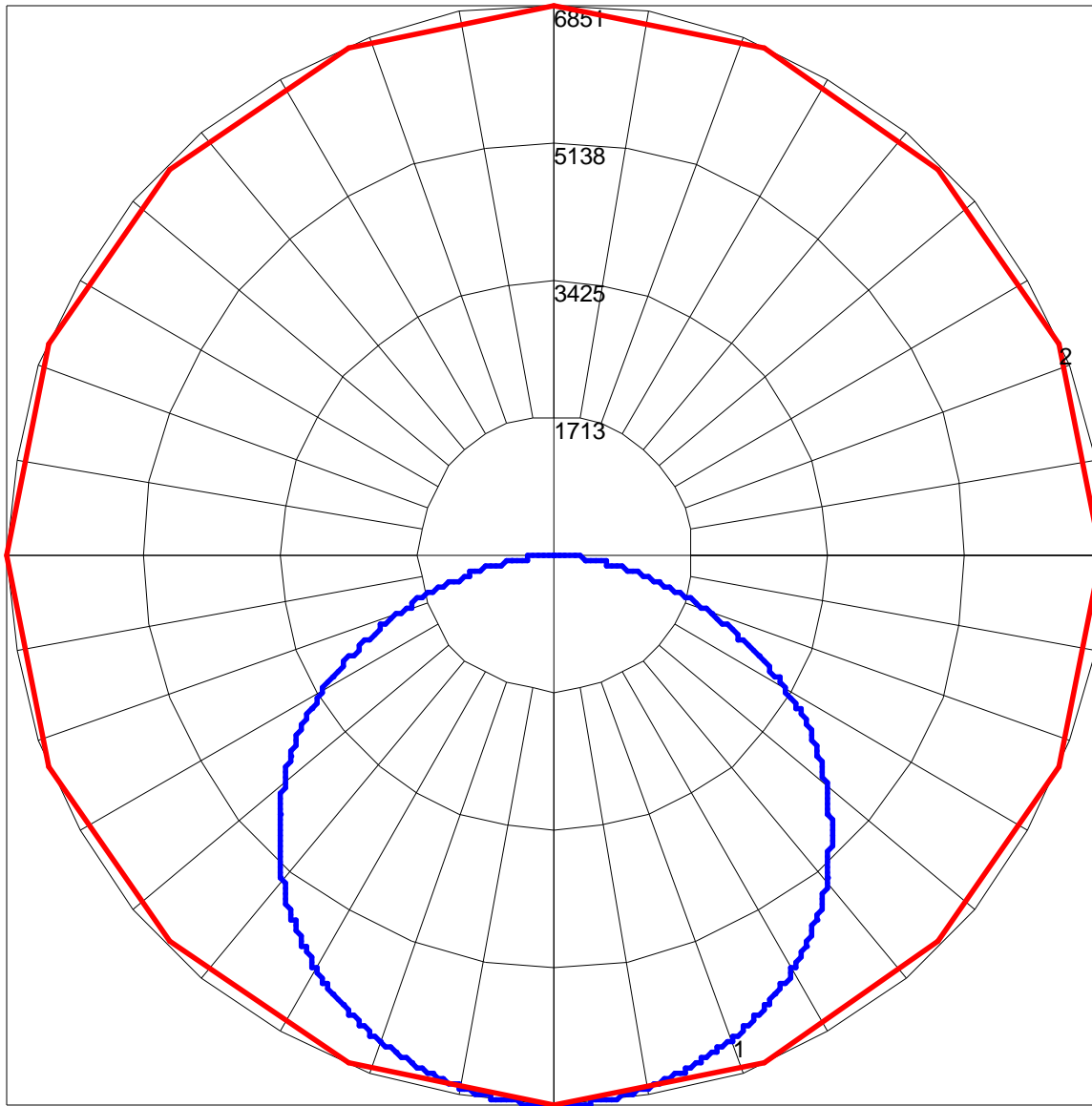
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FHBC48-LED144DMV35.IES**

**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	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	34	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 6850.688 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.)