



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : FHBC48-LED114DMV50.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LLIA000738-001A  
 [TESTLAB] LightLab International Allentown, LLC  
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA  
 [LUMCAT] FHBC48-LED114DMV50  
 [LUMINAIRE] Catalog Number: FHBC48-LED114DMV50  
 [MORE] White formed steel housing, silver matte aluminum reflector, no enclosure.  
 [MORE] 336 White LEDs, Six boards with 56 LEDs each.  
 [MORE] One Philips Advance Xitanium XI190C275V054BSG1 LED driver.  
 [MORE] 120.0Vac, 60.0Hz, 0.95A, 114W, 0.995PF, 5.53%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 LLIA000738-001A Monday, September 18, 2017  
 [ISSUEDATE] Tuesday, February 28, 2017 2:06:09 PM

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17562
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	114
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.41 m
Luminous Height	0.03 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12600	11800	11393
55	12351	11198	10953
65	11274	10124	5274
75	8684	4135	577
85	3094	174	55

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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>
<b>0.0</b>	6035.327	6035.327	6035.327	6035.327	6035.327
<b>0.5</b>	6110.555	6021.322	6023.026	6007.142	6066.229
<b>1.0</b>	6109.109	6020.403	6023.107	6007.061	6064.175
<b>1.5</b>	6107.257	6019.416	6022.634	6006.939	6063.283
<b>2.0</b>	6104.837	6017.700	6022.106	6007.223	6062.255
<b>2.5</b>	6102.417	6015.996	6020.957	6007.493	6060.674
<b>3.0</b>	6099.214	6013.955	6019.646	6008.075	6059.200
<b>3.5</b>	6096.159	6011.670	6018.524	6008.683	6058.700
<b>4.0</b>	6092.495	6009.291	6017.497	6011.630	6060.254
<b>4.5</b>	6088.534	6006.452	6017.226	6015.374	6067.906
<b>5.0</b>	6083.938	6003.857	6018.619	6026.108	6080.004
<b>5.5</b>	6078.666	6000.221	6020.295	6038.626	6092.292
<b>6.0</b>	6073.097	5996.774	6023.485	6050.535	6104.459
<b>6.5</b>	6067.324	5993.380	6029.771	6062.431	6112.502
<b>7.0</b>	6060.714	5989.082	6036.571	6070.447	6118.531
<b>7.5</b>	6054.104	5984.567	6042.870	6075.935	6118.193
<b>8.0</b>	6047.155	5980.376	6049.156	6077.517	6113.070
<b>8.5</b>	6039.991	5975.915	6054.198	6073.867	6105.500
<b>9.0</b>	6032.069	5971.806	6056.807	6067.676	6096.861
<b>9.5</b>	6024.012	5968.304	6057.186	6059.214	6087.331
<b>10.0</b>	6015.510	5965.047	6054.955	6050.075	6077.923
<b>10.5</b>	6006.858	5962.573	6049.359	6041.491	6068.460
<b>11.0</b>	5997.071	5959.788	6042.127	6032.907	6059.389
<b>11.5</b>	5987.257	5957.098	6033.583	6023.729	6050.102
<b>12.0</b>	5977.483	5953.570	6024.269	6014.685	6041.978
<b>12.5</b>	5966.831	5949.717	6014.320	6006.169	6035.719
<b>13.0</b>	5955.895	5945.067	6003.884	5998.788	6031.231
<b>13.5</b>	5944.796	5939.754	5993.259	5993.205	6031.123
<b>14.0</b>	5933.117	5933.320	5982.174	5990.312	6037.220
<b>14.5</b>	5921.370	5926.033	5970.954	5991.069	6050.968
<b>15.0</b>	5909.420	5917.923	5960.275	5996.895	6072.123
<b>15.5</b>	5896.618	5908.379	5949.595	6008.980	6098.132
<b>16.0</b>	5883.749	5897.659	5939.254	6027.852	6124.776
<b>16.5</b>	5870.663	5886.358	5930.265	6049.629	6147.257
<b>17.0</b>	5856.767	5874.043	5923.438	6071.258	6161.586
<b>17.5</b>	5843.005	5860.863	5918.585	6089.386	6167.683
<b>18.0</b>	5828.946	5846.993	5916.463	6101.106	6166.493
<b>18.5</b>	5815.158	5832.515	5917.030	6106.338	6160.464
<b>19.0</b>	5800.761	5817.659	5919.788	6105.513	6150.961
<b>19.5</b>	5786.500	5801.870	5924.060	6100.227	6139.051
<b>20.0</b>	5771.481	5785.729	5928.656	6091.265	6125.344
<b>20.5</b>	5755.935	5769.859	5932.874	6080.126	6110.623
<b>21.0</b>	5741.025	5754.016	5935.483	6067.568	6094.361
<b>21.5</b>	5725.722	5737.780	5935.929	6053.063	6077.666
<b>22.0</b>	5709.987	5721.261	5934.063	6037.652	6059.998
<b>22.5</b>	5694.063	5705.175	5928.980	6021.417	6041.491
<b>23.0</b>	5677.598	5689.561	5920.707	6004.438	6021.417
<b>23.5</b>	5660.416	5674.029	5909.798	5986.486	5999.193
<b>24.0</b>	5643.248	5658.619	5896.564	5967.696	5976.307
<b>24.5</b>	5625.743	5643.438	5881.248	5947.081	5950.826
<b>25.0</b>	5607.534	5628.122	5864.878	5925.087	5921.234
<b>25.5</b>	5589.014	5612.224	5848.507	5902.552	5889.548
<b>26.0</b>	5569.669	5596.043	5831.758	5878.233	5854.090
<b>26.5</b>	5550.122	5579.565	5810.156	5853.144	5814.104

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**CANDELA TABULATION - (Cont.)**

<b>27.0</b>	5530.737	5562.694	5789.298	5825.040	5768.953
<b>27.5</b>	5509.947	5545.445	5766.493	5792.191	5719.112
<b>28.0</b>	5488.723	5527.182	5741.593	5753.380	5664.634
<b>28.5</b>	5467.675	5509.027	5718.017	5708.717	5611.021
<b>29.0</b>	5445.249	5489.845	5693.360	5662.836	5555.557
<b>29.5</b>	5423.012	5470.136	5665.040	5614.752	5502.390
<b>30.0</b>	5400.504	5449.818	5636.557	5565.749	5453.792
<b>30.5</b>	5377.091	5429.271	5605.154	5515.813	5409.440
<b>31.0</b>	5353.650	5407.358	5571.670	5464.485	5366.790
<b>31.5</b>	5330.345	5385.594	5536.929	5417.118	5326.276
<b>32.0</b>	5306.202	5363.627	5500.511	5373.211	5285.235
<b>32.5</b>	5281.315	5340.308	5461.890	5330.521	5241.504
<b>33.0</b>	5257.118	5316.922	5421.741	5289.223	5197.652
<b>33.5</b>	5231.339	5293.360	5380.565	5248.317	5153.529
<b>34.0</b>	5205.965	5268.432	5337.767	5207.006	5106.202
<b>34.5</b>	5179.646	5243.627	5295.009	5166.195	5054.847
<b>35.0</b>	5152.758	5218.456	5251.589	5124.803	5002.450
<b>35.5</b>	5125.844	5192.407	5207.141	5082.464	4953.691
<b>36.0</b>	5098.091	5164.965	5162.072	5039.666	4910.095
<b>36.5</b>	5070.406	5137.131	5117.719	4996.408	4868.743
<b>37.0</b>	5041.099	5107.499	5072.352	4951.230	4829.797
<b>37.5</b>	5011.562	5077.246	5027.635	4907.391	4792.947
<b>38.0</b>	4981.633	5045.560	4983.701	4863.525	4756.259
<b>38.5</b>	4949.635	5012.521	4938.956	4819.862	4719.341
<b>39.0</b>	4918.679	4979.199	4894.873	4776.888	4683.140
<b>39.5</b>	4886.560	4944.971	4851.534	4734.454	4646.600
<b>40.0</b>	4853.792	4908.743	4807.465	4692.710	4608.979
<b>40.5</b>	4820.781	4873.001	4765.181	4652.332	4572.791
<b>41.0</b>	4787.607	4836.394	4722.383	4612.426	4536.549
<b>41.5</b>	4753.461	4798.909	4678.503	4572.575	4499.821
<b>42.0</b>	4718.908	4761.261	4635.759	4533.940	4462.687
<b>42.5</b>	4684.059	4723.167	4593.150	4497.509	4425.241
<b>43.0</b>	4648.817	4683.870	4549.581	4464.255	4387.567
<b>43.5</b>	4613.062	4644.126	4506.039	4417.117	4350.608
<b>44.0</b>	4576.279	4604.491	4462.173	4375.968	4312.109
<b>44.5</b>	4538.645	4563.099	4416.685	4336.590	4272.082
<b>45.0</b>	4501.673	4521.639	4371.061	4300.064	4234.474
<b>45.5</b>	4463.187	4479.787	4325.086	4254.251	4196.299
<b>46.0</b>	4423.822	4436.029	4279.422	4211.507	4156.961
<b>46.5</b>	4384.174	4393.190	4234.501	4170.182	4116.894
<b>47.0</b>	4344.173	4349.446	4188.851	4129.195	4075.704
<b>47.5</b>	4302.605	4304.633	4142.538	4087.195	4034.406
<b>48.0</b>	4261.632	4259.983	4096.792	4045.207	3993.636
<b>48.5</b>	4220.375	4214.251	4051.250	4002.815	3952.987
<b>49.0</b>	4176.711	4167.884	4004.815	3959.733	3910.513
<b>49.5</b>	4135.022	4121.503	3959.584	3920.341	3869.026
<b>50.0</b>	4091.926	4074.488	3913.866	3876.596	3827.269
<b>50.5</b>	4047.708	4025.579	3867.228	3834.771	3784.214
<b>51.0</b>	4004.072	3977.279	3821.456	3789.472	3741.578
<b>51.5</b>	3960.192	3928.235	3775.832	3745.079	3698.577
<b>52.0</b>	3914.244	3878.070	3728.154	3698.887	3654.900
<b>52.5</b>	3865.633	3827.891	3682.274	3651.493	3612.223
<b>53.0</b>	3810.574	3774.535	3635.636	3603.734	3568.032
<b>53.5</b>	3757.313	3718.800	3587.661	3555.325	3522.274
<b>54.0</b>	3708.729	3665.930	3540.172	3508.323	3476.488
<b>54.5</b>	3661.077	3613.872	3492.372	3461.172	3430.661

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**CANDELA TABULATION - (Cont.)**

55.0	3610.317	3560.489	3443.815	3413.061	3383.984
55.5	3555.258	3506.444	3395.934	3366.396	3337.049
56.0	3497.630	3448.614	3347.336	3320.232	3290.141
56.5	3444.328	3392.000	3297.292	3274.784	3241.881
57.0	3386.484	3334.115	3247.762	3231.067	3193.405
57.5	3329.884	3273.473	3197.691	3173.588	3144.578
58.0	3276.880	3215.061	3147.052	3120.016	3094.372
58.5	3226.119	3160.192	3096.319	3068.688	3044.774
59.0	3173.385	3105.159	3042.435	3017.413	2994.338
59.5	3113.297	3044.112	2986.552	2965.274	2939.955
60.0	3054.872	2983.848	2933.426	2914.014	2886.558
60.5	2994.757	2920.435	2880.854	2861.617	2817.427
61.0	2931.709	2860.360	2826.254	2807.870	2711.891
61.5	2876.298	2803.098	2769.073	2754.541	2543.321
62.0	2824.132	2743.483	2714.514	2698.819	2290.329
62.5	2767.140	2681.746	2658.400	2621.874	1842.110
63.0	2701.617	2619.617	2602.800	2502.766	1560.988
63.5	2636.501	2559.434	2549.093	2321.408	1411.113
64.0	2574.858	2500.698	2495.169	1982.861	1323.259
64.5	2518.772	2441.381	2439.164	1586.551	1280.717
65.0	2462.726	2380.022	2382.171	1384.658	1249.423
65.5	2398.028	2311.283	2323.868	1268.051	1217.669
66.0	2328.329	2250.992	2267.430	1209.842	1185.766
66.5	2266.348	2194.919	2213.060	1175.695	1153.445
67.0	2209.248	2136.223	2155.852	1142.860	1121.745
67.5	2151.188	2068.944	2093.466	1110.444	1090.910
68.0	2079.285	2008.531	2025.280	1077.432	1060.724
68.5	2013.533	1948.525	1935.723	1044.137	1030.714
69.0	1957.501	1886.558	1780.319	1011.829	992.106
69.5	1898.724	1826.213	1484.029	979.913	949.997
70.0	1823.861	1770.086	1149.619	947.050	908.510
70.5	1764.733	1706.024	994.377	909.835	855.546
71.0	1707.943	1643.678	914.972	867.794	797.000
71.5	1636.135	1586.659	876.283	820.453	725.705
72.0	1575.628	1524.908	844.245	769.869	656.506
72.5	1514.972	1468.200	811.329	708.118	590.808
73.0	1445.151	1402.529	777.155	641.393	517.581
73.5	1388.281	1344.888	745.090	573.586	427.888
74.0	1322.569	1286.125	711.133	506.158	294.262
74.5	1260.724	1228.267	678.689	429.916	185.833
75.0	1197.960	1167.220	644.651	311.849	90.936
75.5	1137.480	1111.579	605.408	204.285	33.025
76.0	1074.269	1053.816	557.432	105.495	11.193
76.5	1013.154	994.310	504.617	41.406	10.044
77.0	956.243	937.885	448.044	15.600	8.895
77.5	894.871	876.499	384.265	14.316	7.516
78.0	835.837	797.892	309.983	12.991	6.962
78.5	779.899	607.963	226.658	11.991	6.827
79.0	723.718	442.055	124.015	11.585	6.570
79.5	668.551	379.939	53.775	11.247	6.340
80.0	613.762	351.889	18.939	11.031	6.110
80.5	562.136	322.677	17.195	10.869	5.934
81.0	511.281	298.466	15.681	10.612	5.853
81.5	463.197	272.782	15.046	10.287	5.569
82.0	415.519	248.138	14.654	10.017	5.515
82.5	370.017	217.303	14.356	9.882	5.299

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**CANDELA TABULATION - (Cont.)**

83.0	325.367	176.722	13.937	9.544	5.069
83.5	283.190	132.558	13.559	9.314	4.731
84.0	241.338	72.349	13.194	8.922	4.515
84.5	202.298	24.427	12.842	8.760	4.272
85.0	164.799	17.181	12.491	8.449	4.069
85.5	131.801	16.019	12.180	8.057	3.745
86.0	101.791	15.465	11.626	7.746	3.461
86.5	73.876	14.856	11.234	7.300	3.163
87.0	48.760	14.451	10.801	6.908	2.798
87.5	29.307	13.775	10.247	6.637	2.798
88.0	18.614	13.031	9.720	6.164	0.000
88.5	16.330	12.139	9.233	5.880	0.000
89.0	12.072	11.301	8.719	5.596	0.000
89.5	5.515	10.395	8.165	5.150	0.000
90.0	0.000	9.165	7.503	4.839	0.000
90.5	0.000	7.489	6.678	4.353	0.000
91.0	0.000	5.934	5.961	3.907	0.000
91.5	0.000	4.704	5.123	3.501	0.000
92.0	0.000	3.677	4.474	3.109	0.000
92.5	0.000	3.069	3.812	0.000	0.000
93.0	0.000	0.000	3.325	0.000	0.000
93.5	0.000	0.000	2.920	0.000	0.000
94.0	0.000	0.000	0.000	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-LED114DMV50.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**  
**PHOTOMETRIC FILENAME : FHBC48-LED114DMV50.IES**

**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-LED114DMV50.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2269.93	N.A.	12.90
0-30	4936.47	N.A.	28.10
0-40	8169.94	N.A.	46.50
0-60	14659.12	N.A.	83.50
0-80	17497.21	N.A.	99.60
0-90	17560.68	N.A.	100.00
10-90	16984.29	N.A.	96.70
20-40	5900.01	N.A.	33.60
20-50	9284.72	N.A.	52.90
40-70	8581.31	N.A.	48.90
60-80	2838.09	N.A.	16.20
70-80	745.97	N.A.	4.20
80-90	63.48	N.A.	0.40
90-110	1.13	N.A.	0.00
90-120	1.13	N.A.	0.00
90-130	1.13	N.A.	0.00
90-150	1.13	N.A.	0.00
90-180	1.13	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	17561.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	576.40
10-20	1693.53
20-30	2666.54
30-40	3233.47
40-50	3384.71
50-60	3104.47
60-70	2092.12
70-80	745.97
80-90	63.48
90-100	1.13
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

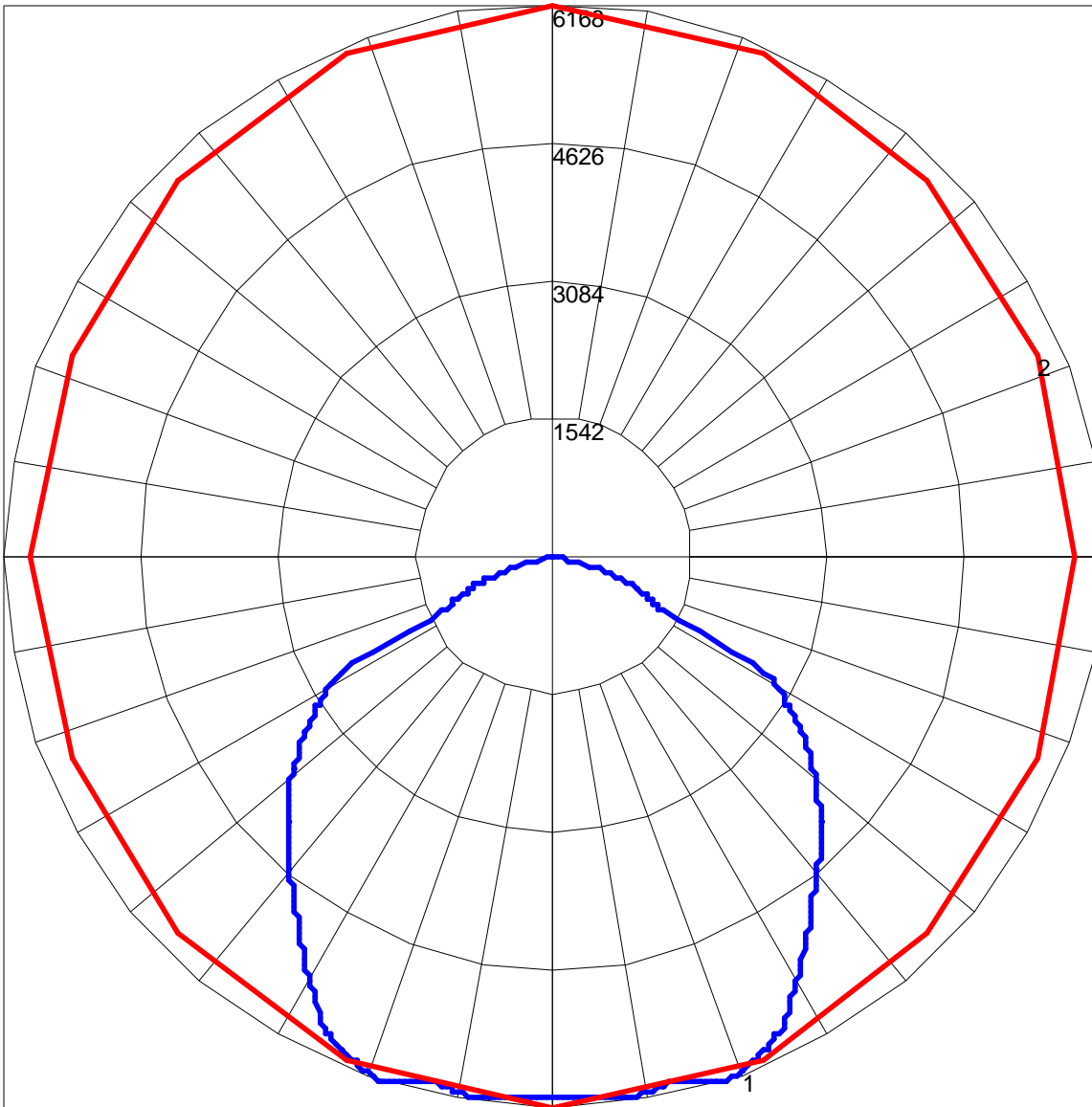
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FHBC48-LED114DMV50.IES**

**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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	100	92	86	81	98	90	85	80	87	82	78	84	80	76	81	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	49	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 = 6167.683 Located At Horizontal Angle = 90, Vertical Angle = 17.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (17.5) (Through Max. Cd.)