



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : FHBC48-LED114DMV40.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-LED114DMV40  
 [LUMINAIRE] Catalog Number: FHBC48-LED114DMV40  
 [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	17052
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
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	12234	11457	11062
55	11992	10873	10635
65	10946	9830	5121
75	8431	4015	560
85	3004	169	54

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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	5860.046	5860.046	5860.046	5860.046	5860.046
0.5	5933.089	5846.448	5848.101	5832.679	5890.050
1.0	5931.685	5845.555	5848.180	5832.600	5888.055
1.5	5929.886	5844.597	5847.721	5832.482	5887.189
2.0	5927.537	5842.930	5847.209	5832.758	5886.192
2.5	5925.187	5841.276	5846.093	5833.020	5884.656
3.0	5922.077	5839.294	5844.820	5833.585	5883.225
3.5	5919.110	5837.076	5843.731	5834.175	5882.740
4.0	5915.553	5834.766	5842.733	5837.037	5884.249
4.5	5911.708	5832.010	5842.471	5840.672	5891.678
5.0	5907.245	5829.489	5843.823	5851.094	5903.425
5.5	5902.126	5825.959	5845.450	5863.248	5915.356
6.0	5896.718	5822.612	5848.548	5874.812	5927.169
6.5	5891.114	5819.317	5854.651	5886.362	5934.979
7.0	5884.695	5815.143	5861.253	5894.146	5940.833
7.5	5878.277	5810.759	5867.370	5899.475	5940.505
8.0	5871.530	5806.691	5873.473	5901.010	5935.530
8.5	5864.574	5802.359	5878.369	5897.466	5928.180
9.0	5856.882	5798.369	5880.902	5891.455	5919.793
9.5	5849.060	5794.969	5881.270	5883.238	5910.539
10.0	5840.804	5791.806	5879.104	5874.366	5901.404
10.5	5832.403	5789.404	5873.670	5866.031	5892.216
11.0	5822.900	5786.700	5866.648	5857.696	5883.409
11.5	5813.371	5784.088	5858.352	5848.784	5874.392
12.0	5803.882	5780.663	5849.309	5840.003	5866.503
12.5	5793.539	5776.922	5839.649	5831.734	5860.426
13.0	5782.920	5772.407	5829.516	5824.567	5856.069
13.5	5772.144	5767.248	5819.199	5819.147	5855.964
14.0	5760.804	5761.001	5808.436	5816.338	5861.883
14.5	5749.398	5753.926	5797.542	5817.073	5875.232
15.0	5737.795	5746.051	5787.173	5822.730	5895.773
15.5	5725.365	5736.784	5776.804	5834.464	5921.027
16.0	5712.870	5726.376	5766.763	5852.787	5946.897
16.5	5700.164	5715.403	5758.034	5873.932	5968.725
17.0	5686.671	5703.445	5751.406	5894.933	5982.638
17.5	5673.309	5690.648	5746.694	5912.534	5988.557
18.0	5659.659	5677.181	5744.633	5923.914	5987.402
18.5	5646.271	5663.124	5745.184	5928.994	5981.548
19.0	5632.292	5648.699	5747.862	5928.193	5972.321
19.5	5618.445	5633.368	5752.010	5923.061	5960.758
20.0	5603.862	5617.697	5756.472	5914.359	5947.448
20.5	5588.768	5602.287	5760.568	5903.543	5933.155
21.0	5574.291	5586.904	5763.101	5891.350	5917.365
21.5	5559.433	5571.140	5763.534	5877.266	5901.155
22.0	5544.154	5555.101	5761.723	5862.303	5884.000
22.5	5528.693	5539.482	5756.787	5846.539	5866.031
23.0	5512.706	5524.322	5748.755	5830.054	5846.539
23.5	5496.023	5509.241	5738.162	5812.623	5824.961
24.0	5479.354	5494.278	5725.312	5794.379	5802.740
24.5	5462.356	5479.538	5710.441	5774.362	5777.998
25.0	5444.676	5464.666	5694.546	5753.007	5749.266
25.5	5426.694	5449.231	5678.651	5731.127	5718.500
26.0	5407.912	5433.520	5662.389	5707.514	5684.072
26.5	5388.932	5417.520	5641.414	5683.153	5645.247

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**CANDELA TABULATION - (Cont.)**

27.0	5370.110	5401.139	5621.162	5655.865	5601.408
27.5	5349.923	5384.391	5599.019	5623.971	5553.014
28.0	5329.316	5366.658	5574.842	5586.287	5500.118
28.5	5308.880	5349.031	5551.951	5542.921	5448.063
29.0	5287.105	5330.406	5528.010	5498.373	5394.209
29.5	5265.513	5311.269	5500.512	5451.685	5342.586
30.0	5243.659	5291.541	5472.857	5404.105	5295.400
30.5	5220.926	5271.591	5442.366	5355.620	5252.335
31.0	5198.167	5250.314	5409.854	5305.782	5210.925
31.5	5175.538	5229.182	5376.122	5259.791	5171.587
32.0	5152.096	5207.853	5340.762	5217.159	5131.738
32.5	5127.932	5185.212	5303.262	5175.709	5089.277
33.0	5104.437	5162.505	5264.280	5135.610	5046.698
33.5	5079.407	5139.627	5224.299	5095.893	5003.857
34.0	5054.771	5115.423	5182.744	5055.781	4957.904
34.5	5029.215	5091.338	5141.228	5016.155	4908.041
35.0	5003.109	5066.899	5099.069	4975.965	4857.166
35.5	4976.976	5041.606	5055.912	4934.856	4809.823
36.0	4950.029	5014.961	5012.152	4893.301	4767.493
36.5	4923.148	4987.936	4969.087	4851.299	4727.342
37.0	4894.692	4959.164	4925.038	4807.434	4689.528
37.5	4866.013	4929.790	4881.619	4764.868	4653.747
38.0	4836.953	4899.023	4838.961	4722.276	4618.125
38.5	4805.885	4866.945	4795.516	4679.880	4582.279
39.0	4775.828	4834.590	4752.714	4638.154	4547.129
39.5	4744.641	4801.357	4710.633	4596.953	4511.651
40.0	4712.825	4766.180	4667.844	4556.422	4475.123
40.5	4680.773	4731.477	4626.788	4517.216	4439.986
41.0	4648.563	4695.933	4585.232	4478.470	4404.796
41.5	4615.408	4659.536	4542.627	4439.776	4369.134
42.0	4581.859	4622.981	4501.124	4402.263	4333.079
42.5	4548.022	4585.994	4459.753	4366.890	4296.721
43.0	4513.803	4547.838	4417.449	4334.601	4260.140
43.5	4479.087	4509.249	4375.172	4288.833	4224.255
44.0	4443.372	4470.765	4332.580	4248.879	4186.874
44.5	4406.831	4430.575	4288.413	4210.644	4148.009
45.0	4370.933	4390.319	4244.114	4175.179	4111.494
45.5	4333.564	4349.682	4199.474	4130.697	4074.428
46.0	4295.343	4307.195	4155.136	4089.194	4036.233
46.5	4256.846	4265.600	4111.520	4049.069	3997.329
47.0	4218.007	4223.126	4067.196	4009.273	3957.335
47.5	4177.647	4179.615	4022.228	3968.492	3917.237
48.0	4137.863	4136.262	3977.811	3927.724	3877.650
48.5	4097.804	4091.858	3933.591	3886.563	3838.182
49.0	4055.409	4046.838	3888.505	3844.732	3796.942
49.5	4014.930	4001.804	3844.587	3806.484	3756.660
50.0	3973.086	3956.154	3800.197	3764.010	3716.115
50.5	3930.152	3908.666	3754.914	3723.400	3674.310
51.0	3887.783	3861.769	3710.471	3679.416	3632.912
51.5	3845.178	3814.149	3666.172	3636.312	3591.160
52.0	3800.564	3765.441	3619.879	3591.462	3548.752
52.5	3753.365	3716.719	3575.331	3545.444	3507.315
53.0	3699.905	3664.912	3530.048	3499.072	3464.407
53.5	3648.191	3610.796	3483.466	3452.069	3419.978
54.0	3601.018	3559.462	3437.356	3406.432	3375.522
54.5	3554.750	3508.916	3390.944	3360.650	3331.026

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**CANDELA TABULATION - (Cont.)**

55.0	3505.464	3457.083	3343.797	3313.937	3285.704
55.5	3452.004	3404.608	3297.307	3268.628	3240.132
56.0	3396.050	3348.457	3250.121	3223.804	3194.587
56.5	3344.296	3293.487	3201.530	3179.676	3147.729
57.0	3288.132	3237.284	3153.438	3137.228	3100.661
57.5	3233.176	3178.403	3104.822	3081.419	3053.251
58.0	3181.711	3121.688	3055.653	3029.402	3004.503
58.5	3132.424	3068.411	3006.393	2979.565	2956.346
59.0	3081.222	3014.978	2954.075	2929.780	2907.375
59.5	3022.879	2955.703	2899.814	2879.155	2854.571
60.0	2966.151	2897.189	2848.231	2829.383	2802.725
60.5	2907.782	2835.618	2797.186	2778.509	2735.601
61.0	2846.564	2777.288	2744.172	2726.322	2633.131
61.5	2792.763	2721.688	2688.652	2674.542	2469.456
62.0	2742.112	2663.805	2635.677	2620.438	2223.812
62.5	2686.775	2603.861	2581.193	2545.728	1788.611
63.0	2623.155	2543.536	2527.208	2430.079	1515.653
63.5	2559.930	2485.102	2475.061	2253.988	1370.131
64.0	2500.078	2428.071	2422.703	1925.273	1284.828
64.5	2445.620	2370.477	2368.324	1540.473	1243.522
65.0	2391.202	2310.900	2312.987	1344.444	1213.137
65.5	2328.383	2244.157	2256.377	1231.223	1182.305
66.0	2260.708	2185.617	2201.578	1174.705	1151.329
66.5	2200.528	2131.173	2148.787	1141.550	1119.946
67.0	2145.086	2074.182	2093.240	1109.668	1089.166
67.5	2088.712	2008.856	2032.666	1078.193	1059.227
68.0	2018.897	1950.198	1966.461	1046.141	1029.918
68.5	1955.055	1891.934	1879.505	1013.813	1000.779
69.0	1900.650	1831.767	1728.614	982.443	963.293
69.5	1843.580	1773.175	1440.929	951.454	922.407
70.0	1770.891	1718.678	1116.231	919.546	882.125
70.5	1713.480	1656.476	965.498	883.411	830.699
71.0	1658.340	1595.941	888.399	842.591	773.853
71.5	1588.617	1540.578	850.834	796.625	704.629
72.0	1529.868	1480.621	819.726	747.510	637.439
72.5	1470.974	1425.559	787.766	687.553	573.650
73.0	1403.181	1361.796	754.584	622.765	502.549
73.5	1347.962	1305.829	723.451	556.928	415.461
74.0	1284.159	1248.772	690.480	491.458	285.716
74.5	1224.109	1192.595	658.978	417.430	180.436
75.0	1163.168	1133.320	625.928	302.792	88.295
75.5	1104.444	1079.296	587.825	198.352	32.066
76.0	1043.070	1023.211	541.243	102.431	10.868
76.5	983.729	965.432	489.961	40.203	9.752
77.0	928.471	910.646	435.031	15.147	8.637
77.5	868.881	851.044	373.105	13.900	7.298
78.0	811.562	774.719	300.981	12.614	6.760
78.5	757.249	590.306	220.075	11.642	6.628
79.0	702.699	429.217	120.413	11.249	6.379
79.5	649.134	368.905	52.213	10.920	6.156
80.0	595.937	341.670	18.389	10.710	5.933
80.5	545.810	313.305	16.696	10.553	5.762
81.0	496.432	289.798	15.226	10.304	5.683
81.5	449.745	264.859	14.609	9.988	5.408
82.0	403.451	240.931	14.228	9.726	5.355
82.5	359.271	210.992	13.939	9.595	5.145

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**CANDELA TABULATION - (Cont.)**

83.0	315.917	171.590	13.532	9.267	4.922
83.5	274.966	128.709	13.165	9.043	4.594
84.0	234.329	70.248	12.810	8.663	4.384
84.5	196.423	23.718	12.469	8.505	4.148
85.0	160.013	16.682	12.128	8.203	3.951
85.5	127.974	15.554	11.826	7.823	3.636
86.0	98.835	15.016	11.288	7.521	3.360
86.5	71.731	14.425	10.907	7.088	3.071
87.0	47.344	14.031	10.487	6.707	2.717
87.5	28.456	13.375	9.949	6.445	2.717
88.0	18.074	12.653	9.437	5.985	0.000
88.5	15.856	11.787	8.965	5.710	0.000
89.0	11.721	10.973	8.466	5.434	0.000
89.5	5.355	10.094	7.928	5.001	0.000
90.0	0.000	8.899	7.285	4.699	0.000
90.5	0.000	7.272	6.484	4.226	0.000
91.0	0.000	5.762	5.788	3.793	0.000
91.5	0.000	4.568	4.975	3.400	0.000
92.0	0.000	3.570	4.345	3.019	0.000
92.5	0.000	2.979	3.701	0.000	0.000
93.0	0.000	0.000	3.229	0.000	0.000
93.5	0.000	0.000	2.835	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-LED114DMV40.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-LED114DMV40.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2204.01	N.A.	12.90
0-30	4793.1	N.A.	28.10
0-40	7932.66	N.A.	46.50
0-60	14233.38	N.A.	83.50
0-80	16989.04	N.A.	99.60
0-90	17050.68	N.A.	100.00
10-90	16491.02	N.A.	96.70
20-40	5728.66	N.A.	33.60
20-50	9015.07	N.A.	52.90
40-70	8332.08	N.A.	48.90
60-80	2755.66	N.A.	16.20
70-80	724.30	N.A.	4.20
80-90	61.63	N.A.	0.40
90-110	1.10	N.A.	0.00
90-120	1.10	N.A.	0.00
90-130	1.10	N.A.	0.00
90-150	1.10	N.A.	0.00
90-180	1.10	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	17051.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	559.66
10-20	1644.35
20-30	2589.1
30-40	3139.56
40-50	3286.41
50-60	3014.31
60-70	2031.36
70-80	724.30
80-90	61.63
90-100	1.10
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

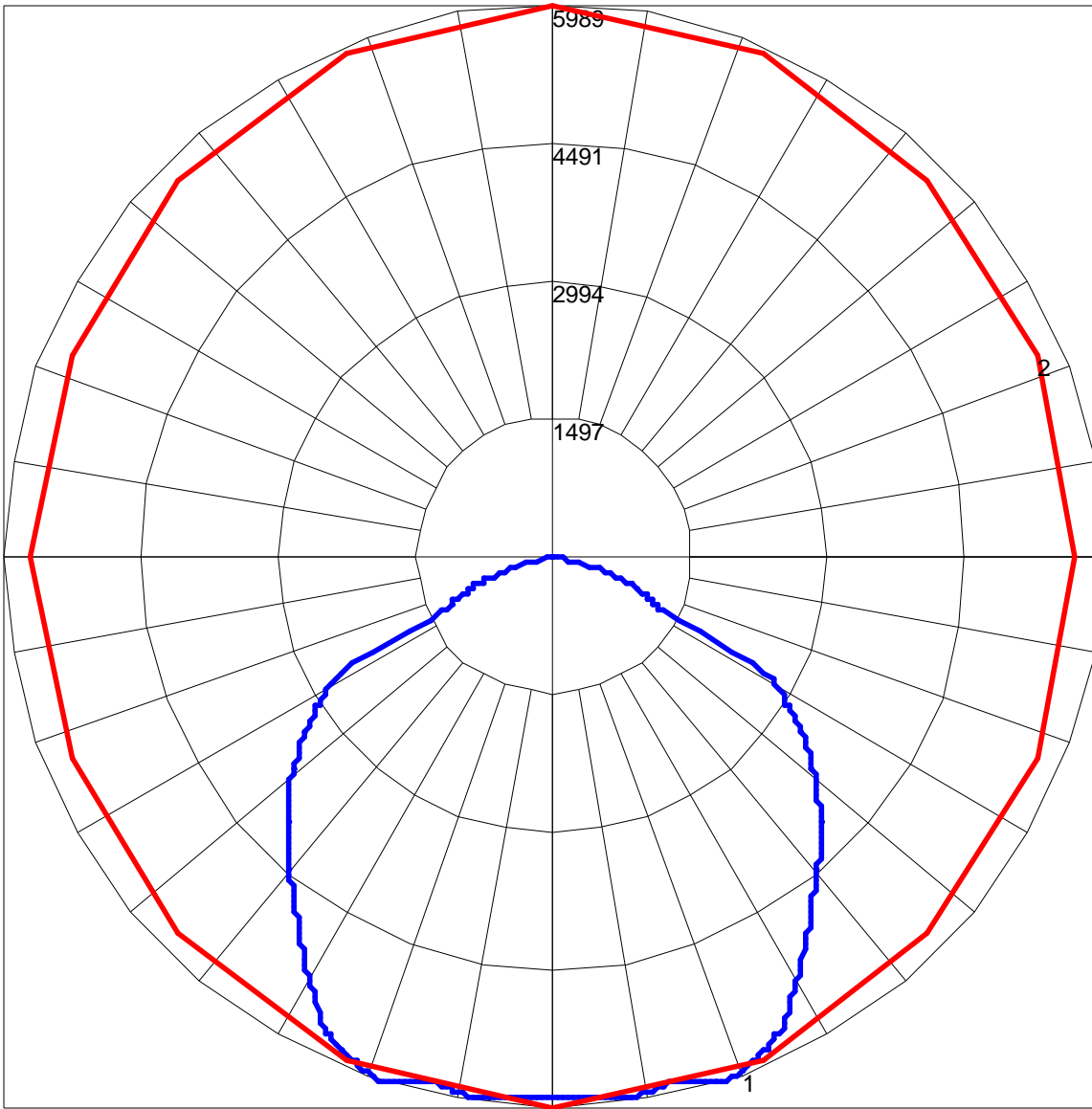
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FHBC48-LED114DMV40.IES**

**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 = 5988.557 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.)