



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FHBC48-LED97DMV50.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-LED97DMV50
 [LUMINAIRE] Catalog Number: FHBC48-LED97DMV50
 [MORE] White formed steel housing, silver matte aluminum reflector, no enclosure.
 [MORE] 224 White LEDs, Four boards with 56 LEDs each.
 [MORE] One Philips Advance Xitanium XI095C275V054BSS1 LED driver.
 [MORE] 120.0Vac, 60.0Hz, 0.7945A, 94.87W, 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	13796
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	94.9
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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PHOTOMETRIC FILENAME : FHBC48-LED97DMV50.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9898	9270	8950
55	9703	8797	8604
65	8856	7954	4144
75	6822	3248	453
85	2430	137	43

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FHBC48-LED97DMV50.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	4741.307	4741.307	4741.307	4741.307	4741.307
0.5	4800.406	4730.305	4731.643	4719.165	4765.584
1.0	4799.270	4729.583	4731.707	4719.102	4763.970
1.5	4797.815	4728.808	4731.335	4719.006	4763.269
2.0	4795.914	4727.459	4730.921	4719.229	4762.462
2.5	4794.013	4726.121	4730.019	4719.441	4761.219
3.0	4791.496	4724.518	4728.988	4719.898	4760.062
3.5	4789.096	4722.723	4728.107	4720.376	4759.669
4.0	4786.218	4720.854	4727.300	4722.691	4760.890
4.5	4783.107	4718.624	4727.088	4725.633	4766.901
5.0	4779.496	4716.585	4728.181	4734.065	4776.405
5.5	4775.354	4713.728	4729.498	4743.899	4786.059
6.0	4770.979	4711.020	4732.004	4753.255	4795.617
6.5	4766.444	4708.354	4736.943	4762.600	4801.935
7.0	4761.251	4704.977	4742.284	4768.897	4806.672
7.5	4756.058	4701.430	4747.233	4773.209	4806.406
8.0	4750.600	4698.138	4752.171	4774.451	4802.381
8.5	4744.971	4694.634	4756.132	4771.584	4796.434
9.0	4738.748	4691.405	4758.182	4766.720	4789.648
9.5	4732.419	4688.655	4758.479	4760.072	4782.161
10.0	4725.739	4686.095	4756.727	4752.893	4774.770
10.5	4718.942	4684.152	4752.331	4746.150	4767.336
11.0	4711.254	4681.964	4746.649	4739.406	4760.210
11.5	4703.544	4679.851	4739.937	4732.196	4752.915
12.0	4695.866	4677.079	4732.620	4725.091	4746.532
12.5	4687.497	4674.053	4724.804	4718.401	4741.615
13.0	4678.906	4670.400	4716.606	4712.602	4738.090
13.5	4670.187	4666.226	4708.259	4708.216	4738.005
14.0	4661.012	4661.171	4699.551	4705.944	4742.794
14.5	4651.783	4655.447	4690.736	4706.538	4753.594
15.0	4642.395	4649.075	4682.347	4711.116	4770.214
15.5	4632.339	4641.578	4673.957	4720.610	4790.647
16.0	4622.229	4633.156	4665.833	4735.435	4811.578
16.5	4611.949	4624.278	4658.771	4752.543	4829.239
17.0	4601.032	4614.604	4653.408	4769.535	4840.495
17.5	4590.221	4604.249	4649.596	4783.776	4845.285
18.0	4579.176	4593.354	4647.928	4792.983	4844.350
18.5	4568.344	4581.980	4648.374	4797.093	4839.614
19.0	4557.034	4570.309	4650.541	4796.445	4832.148
19.5	4545.830	4557.905	4653.897	4792.293	4822.792
20.0	4534.032	4545.225	4657.507	4785.252	4812.024
20.5	4521.819	4532.758	4660.821	4776.501	4800.459
21.0	4510.106	4520.311	4662.870	4766.635	4787.684
21.5	4498.084	4507.557	4663.221	4755.240	4774.568
22.0	4485.723	4494.580	4661.755	4743.134	4760.688
22.5	4473.213	4481.942	4657.762	4730.380	4746.150
23.0	4460.278	4469.676	4651.263	4717.041	4730.380
23.5	4446.780	4457.474	4642.693	4702.938	4712.921
24.0	4433.293	4445.368	4632.296	4688.177	4694.942
24.5	4419.541	4433.442	4620.264	4671.982	4674.924
25.0	4405.236	4421.410	4607.403	4654.704	4651.677
25.5	4390.687	4408.921	4594.543	4637.001	4626.784
26.0	4375.490	4396.209	4581.385	4617.896	4598.929
26.5	4360.134	4383.264	4564.415	4598.186	4567.516

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FHBC48-LED97DMV50.IES

CANDELA TABULATION - (Cont.)

27.0	4344.905	4370.010	4548.029	4576.107	4532.046
27.5	4328.572	4356.460	4530.113	4550.301	4492.891
28.0	4311.899	4342.112	4510.552	4519.812	4450.094
28.5	4295.365	4327.850	4492.031	4484.725	4407.976
29.0	4277.746	4312.781	4472.661	4448.681	4364.403
29.5	4260.277	4297.297	4450.412	4410.907	4322.636
30.0	4242.595	4281.336	4428.037	4372.411	4284.458
30.5	4224.202	4265.194	4403.367	4333.181	4249.615
31.0	4205.787	4247.979	4377.062	4292.858	4216.110
31.5	4187.479	4230.882	4349.769	4255.647	4184.282
32.0	4168.512	4213.625	4321.160	4221.154	4152.041
32.5	4148.961	4195.306	4290.819	4187.617	4117.686
33.0	4129.952	4176.934	4259.279	4155.174	4083.236
33.5	4109.700	4158.423	4226.931	4123.038	4048.573
34.0	4089.767	4138.841	4193.309	4090.585	4011.393
34.5	4069.090	4119.353	4159.719	4058.524	3971.049
35.0	4047.968	4099.580	4125.608	4026.006	3929.887
35.5	4026.824	4079.115	4090.691	3992.745	3891.582
36.0	4005.022	4057.557	4055.285	3959.123	3857.333
36.5	3983.272	4035.691	4020.441	3925.140	3824.848
37.0	3960.249	4012.413	3984.802	3889.649	3794.252
37.5	3937.045	3988.646	3949.672	3855.209	3765.303
38.0	3913.533	3963.753	3915.158	3820.748	3736.481
38.5	3888.396	3937.799	3880.006	3786.447	3707.479
39.0	3864.077	3911.621	3845.376	3752.687	3679.039
39.5	3838.844	3884.732	3811.329	3719.351	3650.334
40.0	3813.102	3856.271	3776.709	3686.558	3620.779
40.5	3787.169	3828.193	3743.490	3654.837	3592.350
41.0	3761.108	3799.435	3709.868	3623.487	3563.879
41.5	3734.283	3769.986	3675.396	3592.180	3535.025
42.0	3707.139	3740.410	3641.817	3561.829	3505.853
42.5	3679.761	3710.484	3608.344	3533.209	3476.436
43.0	3652.076	3679.613	3574.116	3507.085	3446.839
43.5	3623.986	3648.391	3539.910	3470.054	3417.805
44.0	3595.090	3617.254	3505.449	3437.727	3387.560
44.5	3565.525	3584.736	3469.714	3406.792	3356.115
45.0	3536.480	3552.165	3433.872	3378.098	3326.571
45.5	3506.246	3519.287	3397.755	3342.108	3296.581
46.0	3475.321	3484.911	3361.881	3308.528	3266.677
46.5	3444.174	3451.257	3326.592	3276.064	3234.201
47.0	3412.750	3416.892	3290.729	3243.865	3201.842
47.5	3380.094	3381.687	3254.346	3210.869	3169.399
48.0	3347.906	3346.610	3218.409	3177.884	3137.370
48.5	3315.495	3310.684	3182.631	3144.581	3105.437
49.0	3281.193	3274.258	3146.153	3110.736	3072.070
49.5	3248.442	3237.822	3110.619	3079.790	3039.478
50.0	3214.586	3200.887	3074.703	3045.425	3006.673
50.5	3179.849	3162.465	3038.065	3012.567	2972.850
51.0	3145.569	3124.520	3002.107	2976.981	2939.355
51.5	3111.097	3085.992	2966.265	2942.106	2905.574
52.0	3075.001	3046.582	2928.810	2905.818	2871.261
52.5	3036.812	3007.162	2892.766	2868.585	2837.735
53.0	2993.558	2965.246	2856.128	2831.066	2803.019
53.5	2951.716	2921.461	2818.439	2793.037	2767.072
54.0	2913.549	2879.927	2781.132	2756.112	2731.103
54.5	2876.115	2839.031	2743.581	2719.070	2695.102

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55.0	2836.238	2797.093	2705.435	2681.275	2658.432
55.5	2792.984	2754.636	2667.820	2644.616	2621.560
56.0	2747.712	2709.205	2629.642	2608.349	2584.710
56.5	2705.838	2664.729	2590.328	2572.646	2546.797
57.0	2660.397	2619.256	2551.417	2538.302	2508.715
57.5	2615.932	2571.616	2512.082	2493.147	2470.357
58.0	2574.292	2525.728	2472.300	2451.061	2430.915
58.5	2534.415	2482.623	2432.444	2410.738	2391.952
59.0	2492.987	2439.390	2390.114	2370.457	2352.329
59.5	2445.783	2391.431	2346.212	2329.497	2309.606
60.0	2399.884	2344.088	2304.477	2289.227	2267.658
60.5	2352.659	2294.271	2263.177	2248.065	2213.349
61.0	2303.128	2247.077	2220.284	2205.841	2130.441
61.5	2259.598	2202.092	2175.363	2163.946	1998.013
62.0	2218.617	2155.259	2132.501	2120.172	1799.266
62.5	2173.844	2106.759	2088.419	2059.725	1447.148
63.0	2122.370	2057.951	2044.740	1966.154	1226.300
63.5	2071.215	2010.672	2002.548	1823.680	1108.560
64.0	2022.789	1964.529	1960.186	1557.720	1039.542
64.5	1978.728	1917.930	1916.189	1246.382	1006.122
65.0	1934.699	1869.727	1871.416	1087.777	981.537
65.5	1883.873	1815.726	1825.613	996.171	956.592
66.0	1829.118	1768.362	1781.276	950.443	931.529
66.5	1780.426	1724.312	1738.563	923.617	906.137
67.0	1735.569	1678.201	1693.621	897.822	881.234
67.5	1689.957	1625.347	1644.611	872.356	857.011
68.0	1633.471	1577.887	1591.045	846.423	833.297
68.5	1581.816	1530.746	1520.689	820.266	809.721
69.0	1537.798	1482.065	1398.605	794.885	779.391
69.5	1491.623	1434.659	1165.842	769.812	746.311
70.0	1432.811	1390.566	903.132	743.996	713.719
70.5	1386.361	1340.239	781.175	714.760	672.111
71.0	1341.747	1291.261	718.795	681.732	626.117
71.5	1285.335	1246.467	688.401	644.542	570.108
72.0	1237.801	1197.956	663.233	604.803	515.746
72.5	1190.151	1153.407	637.374	556.292	464.134
73.0	1135.300	1101.816	610.527	503.873	406.607
73.5	1090.623	1056.534	585.337	450.605	336.146
74.0	1039.001	1010.370	558.660	397.634	231.170
74.5	990.415	964.917	533.173	337.739	145.989
75.0	941.108	916.959	506.433	244.986	71.439
75.5	893.595	873.248	475.604	160.485	25.944
76.0	843.938	827.870	437.914	82.876	8.793
76.5	795.926	781.122	396.423	32.528	7.890
77.0	751.217	736.795	351.980	12.255	6.988
77.5	703.004	688.571	301.876	11.246	5.905
78.0	656.627	626.818	243.521	10.206	5.469
78.5	612.683	477.611	178.061	9.420	5.363
79.0	568.547	347.275	97.425	9.101	5.161
79.5	525.208	298.478	42.245	8.836	4.981
80.0	482.167	276.442	14.878	8.666	4.800
80.5	441.610	253.492	13.508	8.538	4.662
81.0	401.659	234.473	12.319	8.336	4.598
81.5	363.884	214.295	11.820	8.082	4.375
82.0	326.429	194.935	11.512	7.869	4.333
82.5	290.683	170.712	11.278	7.763	4.163

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CANDELA TABULATION - (Cont.)

83.0	255.606	138.831	10.949	7.498	3.982
83.5	222.472	104.137	10.652	7.317	3.717
84.0	189.594	56.837	10.365	7.009	3.547
84.5	158.924	19.190	10.089	6.882	3.356
85.0	129.465	13.498	9.813	6.637	3.197
85.5	103.542	12.584	9.568	6.329	2.942
86.0	79.966	12.149	9.133	6.085	2.719
86.5	58.037	11.671	8.825	5.735	2.485
87.0	38.305	11.352	8.485	5.427	2.198
87.5	23.024	10.821	8.050	5.214	2.198
88.0	14.623	10.237	7.636	4.843	0.000
88.5	12.829	9.536	7.253	4.620	0.000
89.0	9.483	8.878	6.850	4.397	0.000
89.5	4.333	8.167	6.414	4.046	0.000
90.0	0.000	7.200	5.894	3.802	0.000
90.5	0.000	5.883	5.246	3.420	0.000
91.0	0.000	4.662	4.683	3.069	0.000
91.5	0.000	3.696	4.025	2.751	0.000
92.0	0.000	2.889	3.515	2.443	0.000
92.5	0.000	2.411	2.995	0.000	0.000
93.0	0.000	0.000	2.612	0.000	0.000
93.5	0.000	0.000	2.294	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-LED97DMV50.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-LED97DMV50.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-LED97DMV50.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1783.24	N.A.	12.90
0-30	3878.06	N.A.	28.10
0-40	6418.24	N.A.	46.50
0-60	11516.1	N.A.	83.50
0-80	13745.68	N.A.	99.60
0-90	13795.54	N.A.	100.00
10-90	13342.73	N.A.	96.70
20-40	4635.00	N.A.	33.60
20-50	7294.00	N.A.	52.90
40-70	6741.41	N.A.	48.90
60-80	2229.58	N.A.	16.20
70-80	586.03	N.A.	4.20
80-90	49.87	N.A.	0.40
90-110	0.89	N.A.	0.00
90-120	0.89	N.A.	0.00
90-130	0.89	N.A.	0.00
90-150	0.89	N.A.	0.00
90-180	0.89	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	13796.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	452.82
10-20	1330.42
20-30	2094.81
30-40	2540.19
40-50	2659.00
50-60	2438.85
60-70	1643.55
70-80	586.03
80-90	49.87
90-100	0.89
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

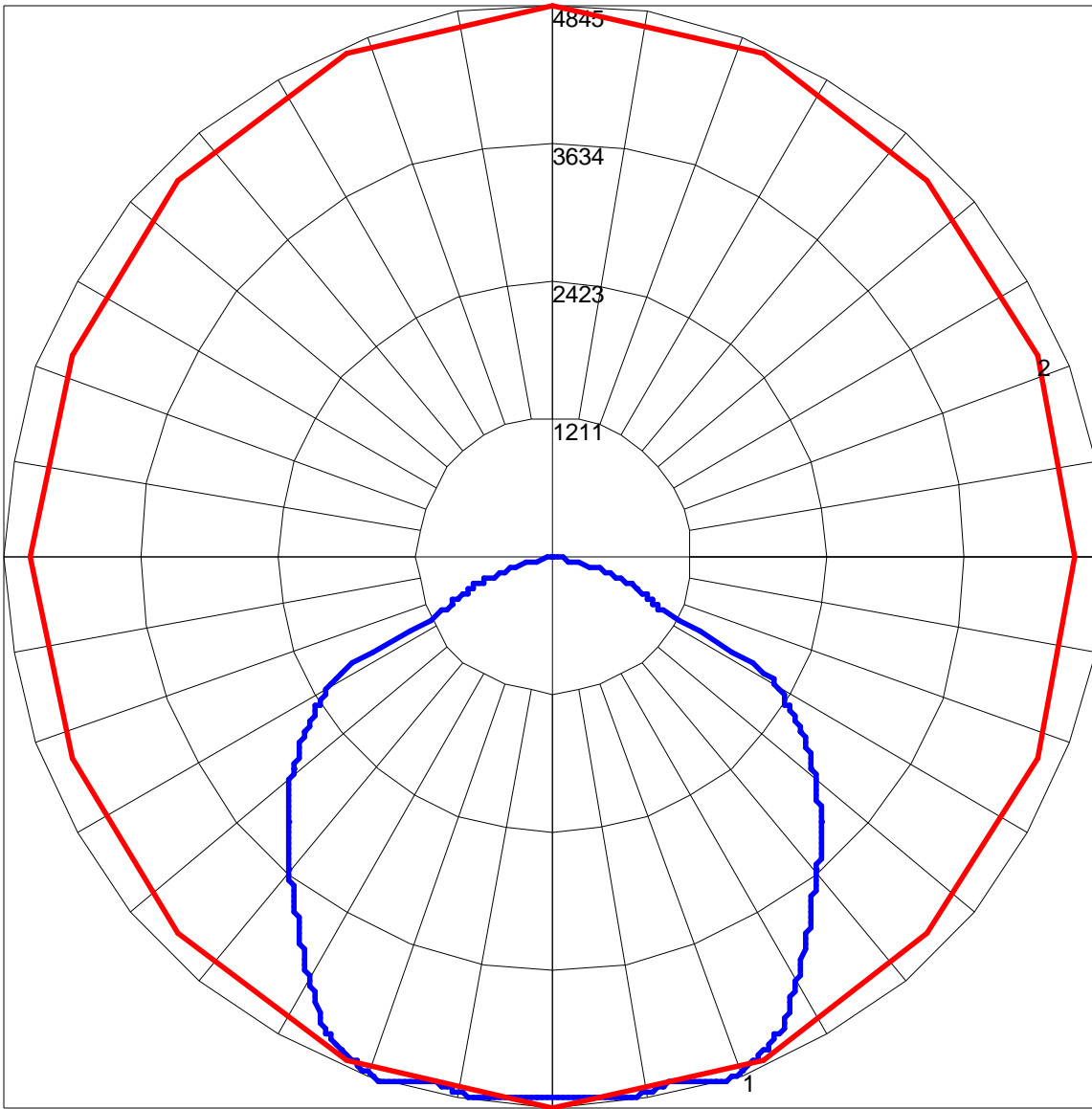
IES INDOOR REPORT
PHOTOMETRIC FILENAME : FHBC48-LED97DMV50.IES

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	72	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 = 4845.285 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.)