



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FHBC48-LED166DMV35.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-LED166DMV35
 [LUMINAIRE] Catalog Number: FHBC48-LED166DMV35
 [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, 1.383A, 166W, 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	23687
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	166
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FHBC48-LED166DMV35.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16994	15916	15367
55	16659	15104	14773
65	15206	13656	7114
75	11713	5577	778
85	4173	235	75

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FHBC48-LED166DMV35.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	8140.476	8140.476	8140.476	8140.476	8140.476
0.5	8241.944	8121.586	8123.884	8102.460	8182.157
1.0	8239.993	8120.346	8123.993	8102.350	8179.386
1.5	8237.495	8119.015	8123.355	8102.186	8178.182
2.0	8234.231	8116.700	8122.644	8102.569	8176.797
2.5	8230.968	8114.402	8121.094	8102.934	8174.663
3.0	8226.646	8111.649	8119.325	8103.718	8172.676
3.5	8222.526	8108.568	8117.812	8104.538	8172.001
4.0	8217.584	8105.359	8116.426	8108.513	8174.098
4.5	8212.242	8101.530	8116.062	8113.564	8184.418
5.0	8206.043	8098.029	8117.940	8128.041	8200.737
5.5	8198.932	8093.124	8120.201	8144.925	8217.311
6.0	8191.420	8088.475	8124.504	8160.988	8233.721
6.5	8183.634	8083.898	8132.982	8177.034	8244.570
7.0	8174.718	8078.100	8142.153	8187.846	8252.702
7.5	8165.802	8072.010	8150.650	8195.249	8252.246
8.0	8156.430	8066.358	8159.129	8197.382	8245.335
8.5	8146.766	8060.341	8165.930	8192.459	8235.125
9.0	8136.082	8054.798	8169.449	8184.108	8223.474
9.5	8125.215	8050.075	8169.959	8172.694	8210.619
10.0	8113.746	8045.681	8166.951	8160.368	8197.929
10.5	8102.077	8042.345	8159.402	8148.790	8185.166
11.0	8088.876	8038.588	8149.647	8137.212	8172.931
11.5	8075.638	8034.960	8138.124	8124.832	8160.405
12.0	8062.456	8030.201	8125.561	8112.634	8149.447
12.5	8048.088	8025.005	8112.141	8101.147	8141.005
13.0	8033.337	8018.732	8098.065	8091.191	8134.951
13.5	8018.368	8011.567	8083.734	8083.661	8134.805
14.0	8002.614	8002.888	8068.783	8079.759	8143.029
14.5	7986.770	7993.060	8053.649	8080.780	8161.572
15.0	7970.651	7982.120	8039.245	8088.639	8190.107
15.5	7953.384	7969.247	8024.841	8104.939	8225.188
16.0	7936.026	7954.788	8010.892	8130.393	8261.125
16.5	7918.377	7939.545	7998.767	8159.767	8291.447
17.0	7899.633	7922.935	7989.559	8188.940	8310.775
17.5	7881.071	7905.157	7983.013	8213.391	8318.998
18.0	7862.109	7886.450	7980.151	8229.199	8317.393
18.5	7843.511	7866.922	7980.917	8236.255	8309.261
19.0	7824.092	7846.884	7984.636	8235.143	8296.443
19.5	7804.856	7825.588	7990.398	8228.014	8280.380
20.0	7784.599	7803.817	7996.597	8215.925	8261.891
20.5	7763.631	7782.411	8002.286	8200.901	8242.035
21.0	7743.520	7761.042	8005.805	8183.962	8220.101
21.5	7722.880	7739.144	8006.407	8164.398	8197.582
22.0	7701.656	7716.863	8003.891	8143.612	8173.752
22.5	7680.177	7695.165	7997.035	8121.714	8148.790
23.0	7657.969	7674.106	7985.876	8098.813	8121.714
23.5	7634.795	7653.156	7971.162	8074.599	8091.738
24.0	7611.638	7632.370	7953.312	8049.255	8060.870
24.5	7588.026	7611.894	7932.653	8021.449	8026.500
25.0	7563.466	7591.235	7910.573	7991.784	7986.587
25.5	7538.487	7569.793	7888.492	7961.389	7943.848
26.0	7512.395	7547.968	7865.901	7928.587	7896.023
26.5	7486.030	7525.742	7836.765	7894.746	7842.089

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FHBC48-LED166DMV35.IES

CANDELA TABULATION - (Cont.)

27.0	7459.883	7502.986	7808.631	7856.839	7781.190
27.5	7431.840	7479.721	7777.871	7812.533	7713.964
28.0	7403.214	7455.088	7744.285	7760.185	7640.483
28.5	7374.825	7430.600	7712.487	7699.942	7568.170
29.0	7344.576	7404.727	7679.229	7638.058	7493.359
29.5	7314.582	7378.143	7641.030	7573.203	7421.648
30.0	7284.224	7350.739	7602.613	7507.107	7356.099
30.5	7252.644	7323.024	7560.257	7439.754	7296.276
31.0	7221.027	7293.468	7515.093	7370.522	7238.750
31.5	7189.593	7264.113	7468.234	7306.632	7184.105
32.0	7157.029	7234.483	7419.113	7247.411	7128.749
32.5	7123.461	7203.031	7367.021	7189.830	7069.764
33.0	7090.824	7171.488	7312.868	7134.128	7010.616
33.5	7056.053	7139.707	7257.330	7078.954	6951.102
34.0	7021.829	7106.085	7199.603	7023.233	6887.268
34.5	6986.329	7072.627	7141.931	6968.187	6817.999
35.0	6950.063	7038.676	7083.366	6912.356	6747.327
35.5	6913.760	7003.541	7023.415	6855.250	6681.560
36.0	6876.328	6966.527	6962.626	6797.523	6622.758
36.5	6838.986	6928.985	6902.802	6739.177	6566.982
37.0	6799.456	6889.018	6841.611	6678.241	6514.452
37.5	6759.616	6848.212	6781.296	6619.111	6464.748
38.0	6719.248	6805.473	6722.038	6559.944	6415.263
38.5	6676.090	6760.911	6661.686	6501.051	6365.468
39.0	6634.336	6715.966	6602.227	6443.087	6316.639
39.5	6591.013	6669.799	6543.771	6385.853	6267.355
40.0	6546.816	6620.934	6484.331	6329.549	6216.612
40.5	6502.290	6572.726	6427.297	6275.086	6167.801
41.0	6457.546	6523.350	6369.571	6221.261	6118.918
41.5	6411.489	6472.789	6310.385	6167.510	6069.378
42.0	6364.885	6422.009	6252.732	6115.399	6019.291
42.5	6317.879	6370.628	6195.261	6066.260	5968.785
43.0	6270.345	6317.624	6136.495	6021.406	5917.969
43.5	6222.118	6264.018	6077.765	5957.827	5868.119
44.0	6172.505	6210.558	6018.599	5902.325	5816.191
44.5	6121.744	6154.728	5957.244	5849.212	5762.202
45.0	6071.876	6098.807	5895.706	5799.945	5711.478
45.5	6019.966	6042.356	5833.695	5738.153	5659.987
46.0	5966.871	5983.335	5772.103	5680.499	5606.928
46.5	5913.393	5925.554	5711.514	5624.760	5552.885
47.0	5859.440	5866.551	5649.940	5569.477	5497.328
47.5	5803.373	5806.108	5587.473	5512.826	5441.625
48.0	5748.108	5745.884	5525.772	5456.194	5386.634
48.5	5692.460	5684.201	5464.344	5399.014	5331.806
49.0	5633.567	5621.660	5401.713	5340.905	5274.517
49.5	5577.335	5559.102	5340.704	5287.773	5218.560
50.0	5519.208	5495.687	5279.039	5228.770	5162.237
50.5	5459.567	5429.719	5216.135	5172.356	5104.164
51.0	5400.710	5364.571	5154.397	5111.257	5046.656
51.5	5341.525	5298.421	5092.859	5051.379	4988.656
52.0	5279.550	5230.758	5028.551	4989.076	4929.745
52.5	5213.983	5163.076	4966.667	4925.150	4872.182
53.0	5139.719	5091.109	4903.762	4860.732	4812.578
53.5	5067.880	5015.933	4839.052	4795.439	4750.858
54.0	5002.350	4944.623	4774.999	4732.041	4689.102
54.5	4938.077	4874.407	4710.526	4668.444	4627.291

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FHBC48-LED166DMV35.IES

CANDELA TABULATION - (Cont.)

55.0	4869.611	4802.404	4645.032	4603.552	4564.332
55.5	4795.347	4729.507	4580.450	4540.610	4501.026
56.0	4717.619	4651.505	4514.902	4478.344	4437.757
56.5	4645.725	4575.144	4447.402	4417.044	4372.664
57.0	4567.705	4497.069	4380.595	4358.077	4307.279
57.5	4491.362	4415.275	4313.059	4280.549	4241.421
58.0	4419.870	4336.489	4244.758	4208.291	4173.703
58.5	4351.404	4262.480	4176.328	4139.059	4106.805
59.0	4280.276	4188.253	4103.650	4069.901	4038.776
59.5	4199.229	4105.911	4028.274	3999.575	3965.424
60.0	4120.425	4024.627	3956.617	3930.434	3893.403
60.5	4039.342	3939.095	3885.708	3859.762	3800.158
61.0	3954.302	3858.067	3812.064	3787.267	3657.811
61.5	3879.564	3780.831	3734.937	3715.337	3430.442
62.0	3809.201	3700.422	3661.348	3640.179	3089.207
62.5	3732.330	3617.151	3585.662	3536.395	2484.646
63.0	3643.953	3533.351	3510.668	3375.742	2105.467
63.5	3556.124	3452.176	3438.228	3131.125	1903.315
64.0	3472.980	3372.953	3365.495	2674.491	1784.817
64.5	3397.330	3292.945	3289.955	2139.947	1727.437
65.0	3321.735	3210.184	3213.083	1867.633	1685.227
65.5	3234.471	3117.468	3134.443	1710.353	1642.397
66.0	3140.460	3036.148	3058.319	1631.840	1599.367
66.5	3056.861	2960.516	2984.985	1585.783	1555.771
67.0	2979.843	2881.347	2907.822	1541.494	1513.014
67.5	2901.532	2790.600	2823.676	1497.771	1471.424
68.0	2804.549	2709.116	2731.707	1453.246	1430.709
68.5	2715.862	2628.179	2610.912	1408.337	1390.231
69.0	2640.285	2544.597	2401.302	1364.760	1338.157
69.5	2561.007	2463.204	2001.666	1321.711	1281.361
70.0	2460.031	2387.500	1550.611	1277.386	1225.403
70.5	2380.279	2301.092	1341.220	1227.190	1153.965
71.0	2303.681	2217.000	1234.118	1170.484	1074.997
71.5	2206.826	2140.092	1181.935	1106.631	978.834
72.0	2125.214	2056.803	1138.722	1038.402	885.498
72.5	2043.401	1980.314	1094.324	955.113	796.885
73.0	1949.227	1891.737	1048.230	865.113	698.115
73.5	1872.519	1813.991	1004.981	773.655	577.137
74.0	1783.887	1734.731	959.179	682.708	396.902
74.5	1700.470	1656.692	915.419	579.872	250.653
75.0	1615.813	1574.351	869.508	420.623	122.655
75.5	1534.238	1499.303	816.577	275.541	44.544
76.0	1448.979	1421.392	751.867	142.292	15.097
76.5	1366.546	1341.129	680.629	55.848	13.547
77.0	1289.784	1265.024	604.323	21.041	11.997
77.5	1207.005	1182.226	518.299	19.309	10.138
78.0	1127.381	1076.200	418.107	17.522	9.390
78.5	1051.931	820.023	305.717	16.173	9.208
79.0	976.154	596.246	167.272	15.626	8.861
79.5	901.744	512.464	72.532	15.170	8.551
80.0	827.845	474.630	25.545	14.878	8.241
80.5	758.212	435.228	23.193	14.660	8.004
81.0	689.618	402.572	21.151	14.313	7.895
81.5	624.763	367.929	20.294	13.876	7.512
82.0	560.454	334.690	19.765	13.511	7.439
82.5	499.081	293.100	19.364	13.329	7.147

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FHBC48-LED166DMV35.IES

CANDELA TABULATION - (Cont.)

83.0	438.856	238.363	18.798	12.873	6.837
83.5	381.969	178.795	18.288	12.563	6.382
84.0	325.518	97.584	17.796	12.034	6.090
84.5	272.861	32.948	17.322	11.815	5.762
85.0	222.282	23.174	16.848	11.396	5.488
85.5	177.774	21.606	16.428	10.867	5.051
86.0	137.296	20.859	15.681	10.448	4.668
86.5	99.645	20.038	15.152	9.846	4.267
87.0	65.767	19.491	14.568	9.317	3.774
87.5	39.530	18.580	13.821	8.953	3.774
88.0	25.107	17.577	13.110	8.314	0.000
88.5	22.026	16.373	12.453	7.931	0.000
89.0	16.282	15.243	11.760	7.549	0.000
89.5	7.439	14.021	11.013	6.947	0.000
90.0	0.000	12.362	10.119	6.528	0.000
90.5	0.000	10.101	9.007	5.871	0.000
91.0	0.000	8.004	8.041	5.269	0.000
91.5	0.000	6.345	6.910	4.722	0.000
92.0	0.000	4.959	6.035	4.194	0.000
92.5	0.000	4.139	5.142	0.000	0.000
93.0	0.000	0.000	4.485	0.000	0.000
93.5	0.000	0.000	3.938	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FHBC48-LED166DMV35.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 : FHBC48-LED166DMV35.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-LED166DMV35.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-LED166DMV35.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3061.7	N.A.	12.90
0-30	6658.34	N.A.	28.10
0-40	11019.65	N.A.	46.50
0-60	19772.29	N.A.	83.50
0-80	23600.33	N.A.	99.60
0-90	23685.93	N.A.	100.00
10-90	22908.5	N.A.	96.70
20-40	7957.95	N.A.	33.60
20-50	12523.28	N.A.	52.90
40-70	11574.5	N.A.	48.90
60-80	3828.02	N.A.	16.20
70-80	1006.17	N.A.	4.20
80-90	85.62	N.A.	0.40
90-110	1.53	N.A.	0.00
90-120	1.53	N.A.	0.00
90-130	1.53	N.A.	0.00
90-150	1.53	N.A.	0.00
90-180	1.53	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	23687.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	777.46
10-20	2284.24
20-30	3596.64
30-40	4361.31
40-50	4565.31
50-60	4187.33
60-70	2821.86
70-80	1006.17
80-90	85.62
90-100	1.53
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

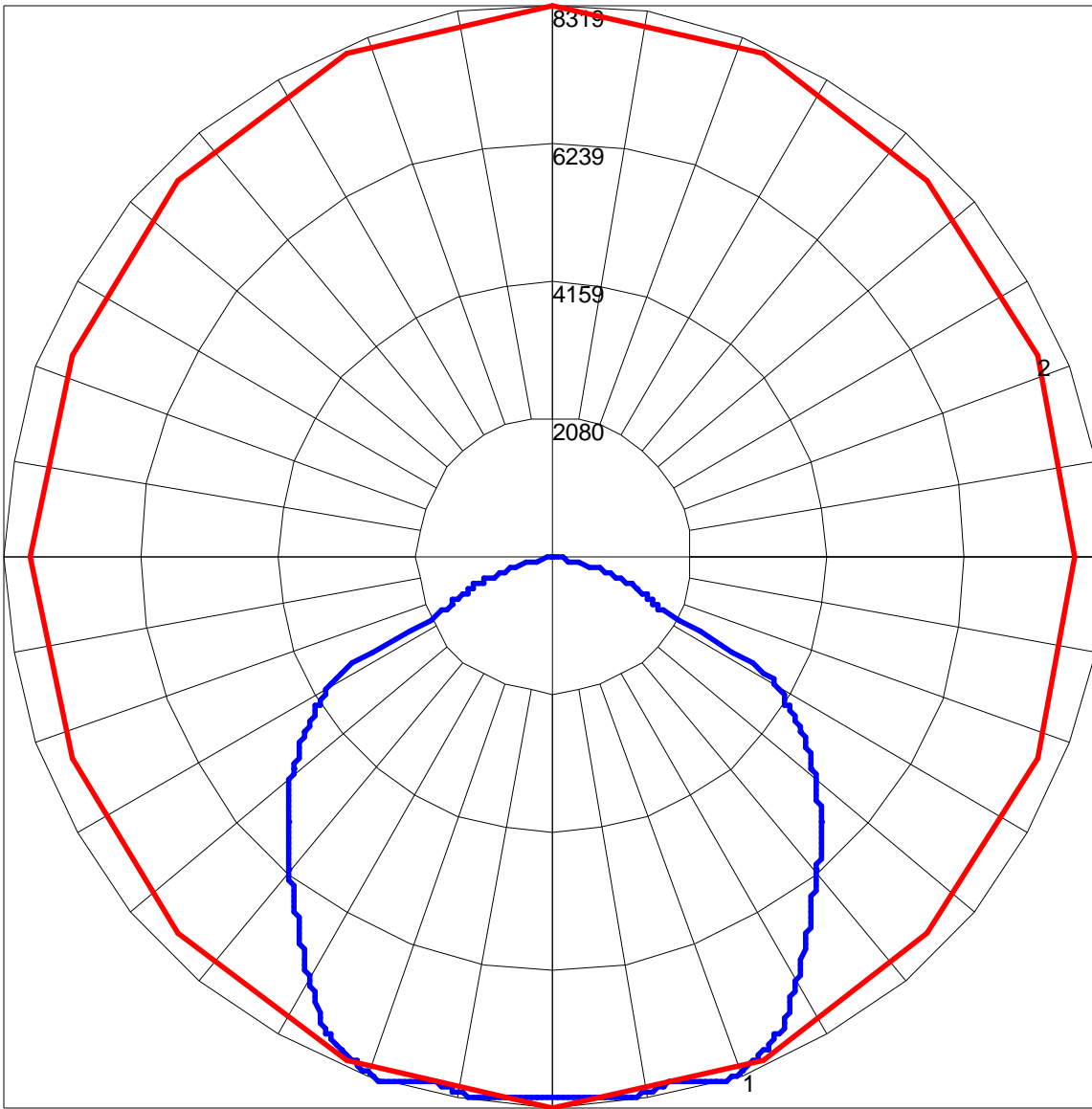
IES INDOOR REPORT
PHOTOMETRIC FILENAME : FHBC48-LED166DMV35.IES

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 = 8318.998 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.)