



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FHBC48-LED144DMV50.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-LED144DMV50
 [LUMINAIRE] Catalog Number: FHBC48-LED144DMV50
 [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	21305
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
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	14628	14239	14052
55	14399	13832	13610
65	13278	12817	12517
75	10513	10136	4879
85	4120	397	312

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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	7244.403	7244.403	7244.403	7244.403	7244.403
0.5	7273.603	7249.698	7238.160	7232.450	7238.845
1.0	7272.735	7248.759	7237.459	7231.933	7237.754
1.5	7271.095	7247.222	7236.440	7230.818	7235.994
2.0	7268.324	7245.390	7234.975	7229.146	7234.170
2.5	7265.401	7242.707	7233.103	7227.059	7232.180
3.0	7262.041	7239.641	7230.890	7224.464	7229.464
3.5	7258.298	7236.201	7228.318	7221.294	7225.777
4.0	7253.528	7232.490	7225.117	7217.631	7221.939
4.5	7248.114	7227.896	7221.406	7213.761	7217.679
5.0	7242.078	7222.497	7217.297	7209.063	7213.124
5.5	7235.365	7216.580	7212.320	7203.991	7207.956
6.0	7228.373	7210.473	7207.112	7198.417	7201.880
6.5	7220.402	7203.887	7201.713	7192.070	7195.470
7.0	7212.097	7196.856	7195.606	7185.493	7188.527
7.5	7203.409	7189.442	7188.877	7178.692	7181.312
8.0	7193.830	7181.639	7181.742	7171.311	7173.317
8.5	7183.582	7173.580	7173.906	7163.435	7164.677
9.0	7173.038	7164.948	7165.641	7154.923	7155.990
9.5	7161.620	7155.639	7156.953	7145.542	7146.426
10.0	7149.285	7145.917	7147.358	7135.620	7136.990
10.5	7137.070	7135.923	7137.476	7126.272	7131.225
11.0	7124.154	7125.197	7127.052	7117.727	7127.856
11.5	7110.585	7113.451	7115.864	7111.389	7122.744
12.0	7097.175	7101.236	7104.620	7106.993	7113.961
12.5	7082.738	7088.304	7092.867	7100.639	7101.579
13.0	7067.640	7074.918	7080.532	7090.247	7085.605
13.5	7052.797	7061.055	7067.831	7076.830	7068.691
14.0	7037.070	7046.849	7055.306	7061.230	7050.488
14.5	7020.547	7031.942	7043.815	7044.149	7032.022
15.0	7004.072	7016.812	7033.973	7026.018	7013.707
15.5	6987.485	7001.213	7024.353	7006.970	6994.707
16.0	6970.667	6984.594	7013.731	6987.763	6974.561
16.5	6953.682	6967.808	7000.910	6968.437	6954.860
17.0	6936.402	6950.433	6985.582	6948.896	6934.921
17.5	6918.414	6932.428	6968.190	6929.116	6914.950
18.0	6900.250	6914.114	6948.777	6909.017	6894.684
18.5	6882.357	6895.154	6927.866	6889.062	6873.630
19.0	6863.397	6875.429	6905.848	6867.642	6852.050
19.5	6844.119	6855.594	6883.743	6846.731	6830.199
20.0	6824.275	6835.121	6861.271	6825.262	6807.608
20.5	6803.125	6813.915	6837.852	6802.839	6784.277
21.0	6782.668	6792.224	6814.855	6780.630	6761.343
21.5	6761.582	6769.848	6790.894	6757.410	6737.375
22.0	6739.819	6746.747	6765.994	6733.346	6713.446
22.5	6717.897	6723.655	6741.484	6709.799	6688.657
23.0	6695.633	6700.251	6716.528	6685.655	6663.733
23.5	6672.158	6676.203	6690.823	6660.245	6638.012
24.0	6648.571	6651.749	6665.127	6634.811	6611.958
24.5	6624.300	6627.079	6638.872	6609.202	6585.082
25.0	6599.296	6602.322	6611.583	6582.606	6557.634
25.5	6574.770	6577.956	6584.501	6555.914	6529.214
26.0	6549.623	6554.122	6557.339	6528.720	6500.706
26.5	6523.441	6529.883	6529.150	6500.221	6470.774

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CANDELA TABULATION - (Cont.)

27.0	6496.932	6506.097	6500.714	6471.251	6441.573
27.5	6469.762	6482.288	6471.379	6441.693	6411.577
28.0	6441.390	6457.045	6440.681	6410.971	6381.254
28.5	6414.029	6430.783	6410.175	6380.712	6350.771
29.0	6385.633	6403.749	6378.841	6349.919	6320.042
29.5	6356.258	6375.090	6346.877	6317.868	6288.469
30.0	6326.667	6345.524	6315.296	6286.279	6256.672
30.5	6296.806	6314.731	6283.038	6254.212	6224.311
31.0	6265.989	6282.098	6249.912	6221.070	6190.906
31.5	6234.870	6249.131	6216.778	6187.928	6157.350
32.0	6203.121	6215.966	6182.736	6154.093	6123.380
32.5	6170.425	6181.693	6147.659	6119.191	6088.725
33.0	6138.048	6146.512	6113.044	6084.680	6053.887
33.5	6104.468	6110.639	6078.190	6049.794	6018.515
34.0	6069.844	6073.826	6041.974	6013.610	5982.060
34.5	6035.850	6037.690	6005.894	5977.832	5945.988
35.0	6000.813	6000.407	5969.216	5941.290	5909.127
35.5	5964.207	5962.368	5931.352	5903.601	5871.383
36.0	5927.132	5924.384	5893.472	5865.769	5833.566
36.5	5890.534	5886.369	5856.309	5828.271	5795.487
37.0	5853.386	5847.135	5817.091	5789.348	5756.668
37.5	5815.236	5808.196	5778.391	5750.393	5718.366
38.0	5776.496	5769.090	5739.165	5710.801	5679.427
38.5	5736.083	5728.383	5699.119	5669.752	5639.014
39.0	5696.165	5687.851	5659.248	5629.570	5598.363
39.5	5655.585	5646.619	5619.107	5587.940	5557.330
40.0	5614.289	5604.455	5577.612	5544.900	5515.397
40.5	5572.340	5563.334	5535.997	5502.489	5474.148
41.0	5530.335	5520.987	5494.136	5459.919	5432.096
41.5	5487.765	5477.692	5450.578	5415.995	5388.594
42.0	5445.052	5434.724	5407.044	5372.875	5345.864
42.5	5402.211	5390.585	5363.256	5329.206	5302.753
43.0	5357.307	5346.446	5318.750	5284.215	5258.375
43.5	5312.563	5302.044	5273.632	5239.216	5214.164
44.0	5267.875	5257.117	5228.466	5193.572	5169.022
44.5	5221.642	5210.629	5181.548	5146.742	5122.869
45.0	5176.077	5164.993	5135.546	5100.827	5077.050
45.5	5129.932	5119.357	5088.476	5053.885	5030.824
46.0	5082.042	5071.818	5040.420	5005.669	4983.747
46.5	5034.463	5025.019	4993.112	4958.035	4936.471
47.0	4986.956	4978.125	4945.007	4909.962	4888.557
47.5	4937.681	4929.798	4895.692	4860.472	4839.720
48.0	4889.863	4881.319	4846.584	4811.189	4791.122
48.5	4840.023	4831.988	4796.609	4761.094	4741.959
49.0	4789.490	4782.108	4745.430	4710.019	4691.370
49.5	4739.235	4732.498	4695.287	4659.088	4641.649
50.0	4688.041	4681.774	4643.902	4607.479	4590.757
50.5	4636.122	4629.624	4590.948	4554.844	4537.907
51.0	4585.350	4578.335	4539.037	4502.041	4485.908
51.5	4532.699	4525.723	4485.805	4449.048	4433.058
52.0	4479.323	4472.443	4431.545	4394.366	4377.922
52.5	4426.130	4419.425	4377.842	4340.368	4323.885
53.0	4371.854	4366.073	4323.487	4285.376	4268.821
53.5	4317.387	4311.152	4267.388	4229.412	4212.276
54.0	4262.833	4256.964	4211.663	4173.775	4156.630
54.5	4207.713	4201.327	4155.651	4116.799	4100.053

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55.0	4151.422	4144.415	4097.354	4058.590	4041.939
55.5	4095.554	4088.371	4040.705	4001.177	3985.322
56.0	4038.881	4031.229	3982.957	3943.309	3927.965
56.5	3977.956	3972.565	3923.689	3883.452	3868.792
57.0	3916.617	3912.716	3865.145	3824.271	3810.654
57.5	3851.759	3851.791	3806.210	3764.381	3751.863
58.0	3786.152	3788.174	3745.333	3703.663	3691.997
58.5	3721.460	3727.066	3686.025	3643.303	3632.681
59.0	3656.777	3666.245	3625.833	3582.251	3572.114
59.5	3587.905	3604.086	3564.072	3520.546	3509.636
60.0	3523.564	3540.453	3503.290	3459.820	3448.337
60.5	3459.199	3475.268	3441.967	3398.202	3385.812
61.0	3391.832	3405.472	3378.852	3335.669	3321.542
61.5	3323.772	3334.307	3316.152	3273.478	3257.918
62.0	3256.509	3264.241	3252.392	3210.761	3194.095
62.5	3189.396	3194.716	3186.140	3146.229	3128.710
63.0	3118.924	3128.695	3120.548	3082.652	3063.780
63.5	3050.570	3062.116	3053.380	3018.080	2997.902
64.0	2981.100	2992.583	2986.762	2952.179	2931.276
64.5	2911.002	2921.505	2921.227	2886.898	2865.103
65.0	2841.995	2851.558	2855.564	2820.303	2799.066
65.5	2771.124	2779.413	2787.623	2752.013	2732.288
66.0	2697.148	2708.121	2720.702	2684.837	2667.286
66.5	2626.635	2636.342	2653.319	2617.271	2601.727
67.0	2553.065	2565.997	2585.483	2548.988	2534.575
67.5	2483.341	2497.141	2518.514	2481.406	2469.183
68.0	2413.354	2427.449	2450.167	2414.222	2403.520
68.5	2335.930	2351.633	2381.383	2346.354	2338.040
69.0	2263.403	2279.863	2314.096	2279.648	2259.015
69.5	2193.735	2208.586	2245.375	2213.141	2133.598
70.0	2122.116	2138.161	2173.039	2146.347	1998.514
70.5	2045.934	2069.424	2100.727	2064.989	1873.726
71.0	1974.912	1996.420	2027.443	1941.905	1817.571
71.5	1905.426	1921.520	1955.299	1805.833	1764.075
72.0	1830.789	1852.504	1885.455	1705.563	1699.288
72.5	1758.087	1784.413	1815.142	1652.466	1572.278
73.0	1689.311	1709.170	1746.381	1597.959	1423.402
73.5	1613.375	1638.061	1678.322	1512.094	1313.712
74.0	1544.559	1567.325	1610.501	1363.218	1184.433
74.5	1473.059	1496.471	1541.844	1240.827	995.423
75.0	1400.851	1424.963	1445.245	1123.802	699.916
75.5	1332.791	1357.413	1322.742	979.067	421.426
76.0	1260.224	1286.032	1223.188	701.015	298.756
76.5	1192.427	1218.673	1168.084	428.139	281.277
77.0	1124.431	1152.071	1109.947	272.701	265.335
77.5	1053.871	1084.752	998.696	253.645	249.329
78.0	989.315	1018.460	880.668	238.078	233.419
78.5	923.517	953.283	771.647	222.765	217.270
79.0	857.376	888.727	638.585	207.134	201.448
79.5	793.250	826.981	398.899	191.853	186.414
80.0	730.342	765.149	196.384	176.962	172.096
80.5	667.976	706.000	174.127	162.660	133.794
81.0	608.891	647.782	159.770	145.659	53.679
81.5	551.223	588.784	145.436	79.057	24.112
82.0	493.005	505.945	131.796	32.019	22.018
82.5	438.833	449.583	118.394	25.935	21.484

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CANDELA TABULATION - (Cont.)

83.0	386.620	393.786	105.852	25.275	20.959
83.5	335.943	316.872	59.476	24.622	20.433
84.0	288.818	251.288	28.062	23.953	19.907
84.5	243.437	135.825	23.825	23.260	19.286
85.0	199.441	66.196	23.061	22.336	18.379
85.5	159.371	56.553	22.217	21.293	17.487
86.0	122.487	47.611	21.277	20.377	16.746
86.5	87.657	30.044	20.266	19.661	16.109
87.0	57.031	18.649	19.302	18.912	15.400
87.5	34.241	17.391	18.466	17.686	13.856
88.0	18.307	16.276	17.447	15.663	11.507
88.5	15.146	15.170	15.568	12.797	8.457
89.0	12.494	14.079	13.171	9.810	5.375
89.5	6.275	12.653	10.869	7.127	0.000
90.0	0.000	11.427	9.253	5.494	0.000
90.5	0.000	9.779	8.369	4.913	0.000
91.0	0.000	7.748	7.684	4.603	0.000
91.5	0.000	5.885	6.904	4.372	0.000
92.0	0.000	4.228	6.147	4.061	0.000
92.5	0.000	0.000	5.391	3.695	0.000
93.0	0.000	0.000	4.666	3.344	0.000
93.5	0.000	0.000	3.966	0.000	0.000
94.0	0.000	0.000	3.392	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

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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

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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-LED144DMV50.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2669.36	N.A.	12.50
0-30	5710.73	N.A.	26.80
0-40	9444.01	N.A.	44.30
0-60	17060.5	N.A.	80.10
0-80	21173.95	N.A.	99.40
0-90	21303.33	N.A.	100.00
10-90	20616.63	N.A.	96.80
20-40	6774.66	N.A.	31.80
20-50	10732.56	N.A.	50.40
40-70	10417.00	N.A.	48.90
60-80	4113.46	N.A.	19.30
70-80	1312.95	N.A.	6.20
80-90	129.36	N.A.	0.60
90-110	1.54	N.A.	0.00
90-120	1.54	N.A.	0.00
90-130	1.54	N.A.	0.00
90-150	1.54	N.A.	0.00
90-180	1.54	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	21304.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	686.69
10-20	1982.67
20-30	3041.37
30-40	3733.28
40-50	3957.9
50-60	3658.58
60-70	2800.52
70-80	1312.95
80-90	129.36
90-100	1.54
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

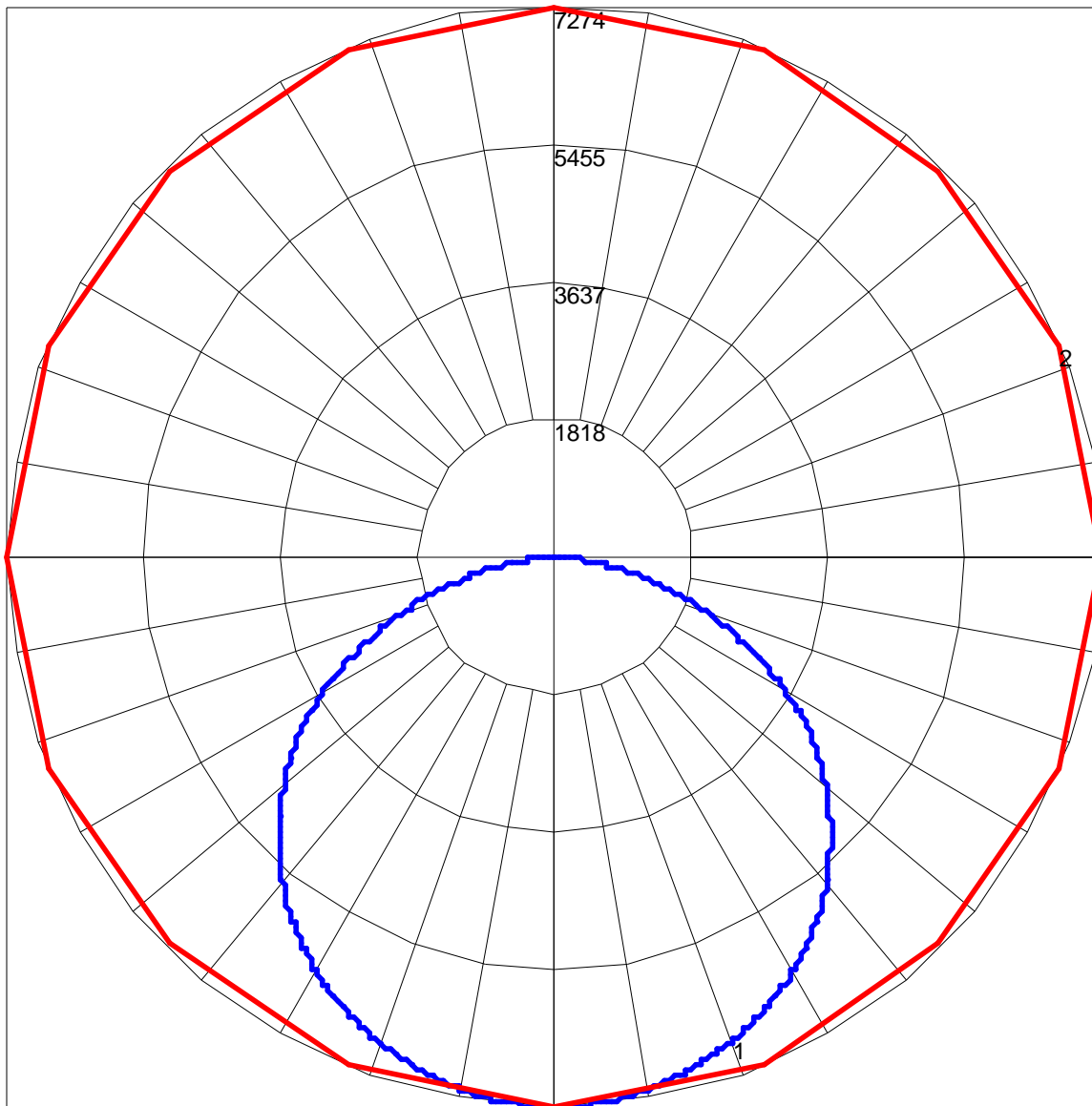
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 7273.603 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.)