



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBULED100DMVWH50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]
 [ISSUEDATE] 2018-1-10 15:47
 [MANUFAC] MOBERN LIGHTING CO.
 [LUMCAT]
 [LUMINAIRE] HBULED100DMVWH50
 [LAMPCAT] L130-5070-Q
 [LAMP] DIM100A12S-2598
 [VOLTAGE] 120.8 V
 [CURRENT] 0.862 A
 [POWERFACTOR] 0.997
 [TESTLAB]
 [TESTINST] GPM-1800B
 [TESTDIST] 11.672 m

CHARACTERISTICS

Lumens Per Lamp	13268.3 (1 lamp)
Total Lamp Lumens	13268.3
Luminaire Lumens	13268
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	103.8
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	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>	<u>30</u>	<u>60</u>	<u>90</u>	<u>120</u>	<u>150</u>	<u>180</u>	<u>210</u>	<u>240</u>	<u>270</u>
0	4161.666	4161.666	4161.666	4161.666	4161.666	4161.666	4161.666	4161.666	4161.666	4161.666
1	4165.000	4159.500	4157.640	4157.080	4155.870	4157.540	4170.400	4167.700	4166.580	4162.760
2	4162.200	4156.240	4154.000	4153.070	4153.630	4156.700	4171.890	4171.150	4169.840	4165.180
3	4158.660	4152.510	4150.180	4150.740	4151.860	4156.520	4173.200	4173.390	4172.080	4166.680
4	4153.910	4148.690	4146.640	4147.760	4148.780	4156.050	4173.480	4175.060	4173.760	4167.050
5	4150.650	4144.220	4142.350	4144.400	4145.800	4153.720	4172.550	4174.880	4173.290	4165.560
6	4146.080	4138.530	4136.850	4138.620	4141.700	4149.900	4170.310	4173.110	4171.240	4163.040
7	4139.650	4131.260	4129.400	4132.010	4135.920	4144.960	4166.300	4169.100	4167.050	4158.100
8	4131.540	4121.760	4120.730	4123.250	4128.840	4138.350	4160.340	4164.070	4160.520	4151.020
9	4119.990	4110.950	4109.830	4113.560	4119.520	4130.700	4152.790	4156.980	4150.930	4141.420
10	4107.030	4098.270	4097.810	4102.090	4108.990	4120.170	4143.190	4146.640	4140.120	4129.120
11	4093.240	4084.950	4082.990	4089.330	4097.530	4109.270	4131.080	4134.990	4127.350	4115.700
12	4078.700	4069.940	4068.640	4075.630	4085.510	4097.530	4119.330	4121.940	4112.900	4100.880
13	4062.670	4052.520	4053.260	4061.180	4070.410	4084.760	4106.660	4106.380	4097.250	4085.230
14	4043.760	4035.370	4036.580	4045.340	4056.060	4070.500	4092.500	4091.100	4079.260	4067.240
15	4026.140	4017.290	4019.250	4028.100	4040.770	4055.500	4077.860	4075.530	4062.210	4049.160
16	4007.320	3997.910	3998.370	4010.390	4023.910	4038.350	4060.440	4059.320	4045.250	4031.550
17	3987.560	3977.590	3978.240	3991.850	4006.570	4021.670	4044.040	4040.870	4028.100	4013.560
18	3967.710	3956.530	3957.650	3972.280	3988.310	4004.340	4027.350	4023.350	4008.810	3995.760
19	3945.160	3932.770	3936.120	3951.960	3967.710	3986.260	4010.210	4005.730	3990.730	3975.730
20	3923.540	3910.590	3911.330	3928.010	3947.210	3965.200	3989.520	3987.380	3972.280	3956.250
21	3901.550	3887.470	3888.130	3905.930	3925.870	3945.250	3969.950	3968.080	3952.990	3936.030
22	3878.810	3861.100	3864.920	3882.540	3904.060	3924.100	3949.170	3946.280	3933.040	3915.520
23	3851.880	3835.570	3839.760	3858.310	3878.620	3901.640	3927.080	3925.500	3910.030	3893.810
24	3825.970	3809.750	3814.230	3831.190	3854.020	3875.550	3902.010	3903.220	3887.290	3868.460
25	3798.660	3782.350	3784.780	3804.250	3828.110	3850.010	3877.600	3879.830	3862.780	3843.120
26	3769.310	3750.480	3755.330	3775.370	3799.970	3822.990	3850.940	3851.970	3836.590	3816.280
27	3735.200	3719.640	3725.410	3745.450	3767.540	3794.560	3822.890	3824.660	3805.280	3787.110
28	3701.740	3686.830	3692.610	3713.770	3736.690	3763.620	3792.980	3795.400	3774.710	3753.000
29	3666.700	3653.100	3658.780	3676.960	3703.050	3727.930	3758.960	3764.000	3742.190	3719.170
30	3630.640	3617.410	3620.850	3642.470	3669.030	3693.360	3725.140	3727.280	3703.790	3683.850
31	3592.990	3576.680	3584.140	3606.780	3632.410	3657.380	3690.190	3692.330	3667.540	3647.230
32	3550.210	3538.470	3545.650	3565.410	3591.500	3620.760	3652.910	3655.330	3628.220	3603.890
33	3509.960	3498.490	3501.760	3526.170	3553.100	3578.920	3610.230	3616.100	3587.490	3563.450
34	3468.110	3456.840	3460.560	3485.450	3512.750	3538.850	3570.900	3572.670	3547.230	3521.980
35	3424.870	3409.220	3417.600	3443.050	3471.380	3497.000	3529.530	3530.090	3505.200	3479.110
36	3375.850	3364.480	3373.340	3394.960	3424.030	3453.760	3486.750	3487.220	3457.860	3430.840
37	3329.260	3318.450	3321.900	3349.290	3378.740	3405.300	3437.830	3442.950	3413.220	3385.170
38	3281.450	3270.450	3273.530	3302.230	3332.050	3359.270	3391.790	3396.640	3366.810	3337.930
39	3232.530	3216.030	3224.330	3253.490	3284.430	3312.020	3343.890	3343.980	3319.190	3289.370
40	3181.080	3164.780	3172.420	3203.450	3234.670	3262.350	3294.030	3295.150	3265.800	3234.860
41	3123.490	3112.030	3119.480	3146.510	3178.940	3211.280	3238.400	3245.200	3215.840	3184.350
42	3069.720	3058.540	3061.430	3094.320	3126.190	3154.150	3186.860	3187.890	3164.220	3132.350
43	3013.620	3003.370	3005.790	3039.060	3072.240	3099.730	3133.650	3134.120	3104.850	3078.850
44	2957.150	2941.210	2950.340	2983.150	3017.530	3045.770	3078.290	3078.290	3049.220	3022.940
45	2893.590	2882.970	2892.470	2921.080	2955.560	2989.580	3014.640	3021.170	2991.810	2959.940
46	2833.670	2823.600	2826.960	2862.000	2897.880	2925.740	2956.490	2957.150	2933.750	2901.140
47	2772.160	2762.000	2765.920	2801.980	2838.140	2866.840	2896.290	2897.220	2867.500	2840.380
48	2709.540	2693.600	2703.850	2740.480	2772.160	2806.550	2835.340	2836.180	2806.640	2778.680
49	2639.640	2629.390	2639.550	2671.510	2709.910	2744.860	2766.940	2773.840	2744.110	2709.540
50	2573.010	2563.880	2573.010	2607.210	2645.610	2674.870	2703.940	2704.040	2680.740	2645.230
51	2507.680	2497.810	2501.810	2542.350	2582.420	2611.310	2638.710	2638.150	2616.350	2579.720
52	2440.680	2422.970	2434.440	2475.910	2516.630	2545.710	2573.290	2572.550	2544.120	2514.580
53	2373.210	2355.320	2366.690	2408.900	2450.370	2479.450	2501.160	2507.220	2477.490	2441.980

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54	2298.560	2287.380	2298.840	2335.650	2377.960	2413.280	2434.060	2433.320	2409.930	2375.170
55	2229.230	2219.440	2224.010	2268.460	2310.310	2339.570	2367.520	2366.780	2336.490	2307.880
56	2159.990	2150.300	2155.510	2200.530	2242.460	2271.720	2298.750	2297.820	2267.530	2231.370
57	2091.210	2074.340	2087.950	2132.780	2175.360	2204.250	2229.970	2229.040	2198.480	2162.500
58	2015.630	2006.410	2020.200	2058.600	2101.000	2130.260	2155.140	2154.120	2130.630	2094.190
59	1947.320	1938.750	1946.020	1991.960	2034.180	2062.980	2086.460	2085.710	2062.040	2026.070
60	1878.830	1863.730	1879.390	1924.490	1966.520	1994.850	2018.800	2017.400	1987.580	1958.510
61	1804.180	1795.980	1811.820	1857.300	1891.690	1927.380	1951.150	1949.190	1920.020	1884.330
62	1736.710	1728.510	1745.470	1784.150	1825.150	1860.190	1877.150	1875.190	1853.020	1817.230
63	1671.110	1662.530	1674.180	1718.540	1759.080	1787.410	1810.610	1808.000	1786.380	1750.780
64	1605.030	1590.680	1609.130	1653.210	1692.820	1720.960	1743.980	1741.370	1713.790	1684.710
65	1539.800	1526.010	1545.020	1588.170	1620.500	1654.890	1672.690	1676.230	1649.110	1614.170
66	1470.190	1463.290	1481.830	1518.830	1556.390	1590.680	1608.200	1604.570	1584.250	1550.050
67	1407.470	1401.040	1414.080	1456.490	1493.110	1520.510	1544.270	1540.730	1520.600	1486.960
68	1346.800	1334.220	1353.980	1395.170	1431.320	1457.510	1480.160	1476.900	1451.360	1417.630
69	1280.630	1274.020	1294.240	1334.870	1363.020	1395.450	1411.200	1413.900	1389.480	1356.030
70	1221.270	1215.400	1235.810	1269.640	1302.720	1334.590	1350.250	1346.800	1329.190	1296.100
71	1163.770	1157.340	1172.530	1212.050	1242.890	1268.330	1289.490	1285.760	1263.210	1236.650
72	1107.210	1095.650	1116.520	1155.390	1184.830	1209.160	1229.750	1226.120	1204.400	1172.720
73	1046.070	1040.010	1061.360	1099.000	1121.180	1150.630	1164.800	1167.500	1146.720	1115.500
74	990.720	985.680	1006.370	1038.060	1064.060	1087.360	1107.490	1109.720	1089.690	1059.210
75	937.780	932.570	948.590	984.190	1008.700	1031.350	1050.450	1047.380	1027.710	1004.040
76	885.970	880.380	896.410	932.100	953.720	975.810	995.100	992.110	973.010	950.460
77	834.990	824.930	845.430	880.190	901.250	921.750	936.200	938.720	920.360	892.960
78	780.760	775.070	795.570	824.650	844.310	869.200	883.170	880.470	867.800	841.700
79	730.710	725.680	744.690	774.330	792.690	812.440	831.270	828.660	811.230	790.910
80	681.410	675.920	689.150	724.380	742.360	760.810	779.170	776.380	759.600	739.660
81	631.740	621.310	638.550	674.520	687.190	709.650	722.050	724.750	708.350	684.490
82	582.260	571.540	587.570	624.850	637.520	658.580	671.070	668.830	658.120	635.380
83	528.390	521.500	538.930	569.310	588.880	603.600	619.720	617.950	607.790	586.450
84	478.440	465.400	485.150	518.890	540.320	555.140	569.030	567.440	554.120	537.900
85	423.930	410.880	430.360	464.370	482.540	503.330	510.040	514.790	501.280	477.980
86	365.400	359.160	376.770	403.330	427.560	447.220	452.720	457.660	444.800	422.530
87	317.970	311.540	323.280	352.640	375.650	387.580	397.370	396.810	384.410	369.410
88	270.070	264.200	274.540	303.990	326.260	338.380	346.950	346.110	335.400	317.130
89	221.240	210.240	225.060	254.130	277.620	289.920	294.110	298.310	288.240	270.160
90	193.000	190.200	199.240	213.130	224.030	240.900	244.910	244.910	240.060	221.700
91	178.650	176.220	184.710	197.190	206.880	210.150	211.080	207.910	203.720	198.220
92	165.880	163.270	169.610	182.470	191.600	194.490	193.470	191.970	188.430	183.210
93	153.490	150.220	156.930	168.860	175.950	180.050	178.650	177.160	174.080	169.420
94	140.810	139.130	145.190	154.880	162.810	166.530	164.860	162.430	160.940	156.650
95	130.370	128.420	134.200	143.050	150.410	152.550	152.270	149.850	147.430	144.630
96	120.590	118.730	123.010	132.240	139.130	140.720	140.350	138.110	136.060	133.730
97	111.270	108.570	113.130	121.890	127.490	129.720	128.420	127.210	125.060	122.360
98	101.760	100.270	103.630	112.480	117.140	119.470	118.350	116.120	114.070	112.850
99	94.030	92.450	94.590	102.320	107.260	109.220	109.030	106.800	101.950	103.350
100	86.670	85.270	85.270	93.560	97.850	100.370	99.340	97.940	91.140	92.450
101	79.590	78.560	77.260	85.360	88.810	92.070	91.330	88.810	81.170	82.750
102	73.430	71.850	69.710	77.720	80.330	84.710	83.870	81.360	72.220	73.530
103	66.910	66.260	62.810	69.610	71.480	77.350	77.070	74.550	63.650	64.770
104	61.600	61.040	56.750	62.720	64.300	71.100	69.990	68.220	56.380	55.260
105	56.660	56.190	50.880	56.290	57.780	65.420	64.020	62.530	50.980	47.430
106	52.090	51.260	46.130	50.320	51.910	60.020	58.430	56.570	46.600	40.720
107	47.430	47.150	41.840	43.990	46.320	54.890	53.490	51.720	42.500	35.970
108	43.430	43.330	38.300	38.580	42.120	49.670	48.370	47.150	39.330	32.340
109	39.700	39.700	35.230	33.830	38.210	45.380	44.080	42.680	36.070	29.450

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110	36.340	36.070	32.800	29.540	35.040	41.380	40.260	38.860	33.080	27.030
111	32.900	32.990	30.850	26.470	32.150	37.840	36.810	35.510	30.470	24.600
112	30.190	30.190	28.980	23.950	29.730	34.390	33.270	32.430	28.140	22.830
113	27.770	27.490	27.120	22.270	27.580	30.940	30.470	29.450	25.910	21.340
114	25.530	25.350	25.720	21.060	25.810	28.140	27.860	27.030	24.040	20.130
115	23.580	23.020	24.320	20.040	24.040	25.720	25.530	25.160	22.460	19.100
116	21.620	21.430	23.110	19.380	22.370	23.580	23.760	23.110	21.150	18.450
117	20.410	20.130	21.900	18.920	20.970	21.340	21.990	21.530	19.760	17.890
118	19.660	19.290	21.150	18.450	19.940	19.850	20.690	20.220	18.920	17.890
119	19.100	18.820	20.320	18.550	19.100	18.820	19.660	19.380	18.360	17.890
120	19.100	18.640	19.570	18.640	18.730	18.170	19.100	18.730	18.170	18.360
121	19.480	18.920	19.290	18.920	18.550	18.360	18.820	18.640	18.820	18.730
122	19.760	19.380	19.290	19.200	18.820	18.640	19.200	19.010	19.290	19.200
123	20.320	19.940	19.660	19.660	19.290	19.200	19.660	19.480	19.660	19.660
124	20.600	20.320	20.040	20.130	19.660	19.760	20.040	19.850	20.130	20.220
125	20.970	20.870	20.690	20.500	20.220	20.130	20.320	20.320	20.600	20.600
126	21.530	21.150	20.970	20.970	20.780	20.690	20.870	20.690	20.970	21.060
127	21.990	21.620	21.530	21.530	21.150	21.060	21.150	21.150	21.430	21.060
128	22.370	22.180	21.810	21.990	21.620	21.430	21.620	21.530	21.810	21.900
129	22.740	22.650	22.180	22.460	21.900	21.900	22.090	22.090	22.370	22.370
130	23.110	23.110	22.830	22.830	22.460	22.370	22.550	22.550	22.830	22.830
131	23.580	23.480	23.110	23.300	22.830	22.650	22.930	22.930	23.200	23.110
132	24.040	23.950	23.480	23.670	23.300	23.200	23.300	23.300	23.580	23.580
133	24.320	24.320	23.760	24.040	23.860	23.480	23.670	23.760	23.860	24.040
134	24.790	24.700	24.230	24.420	24.230	23.950	24.140	24.140	24.420	24.320
135	25.250	25.070	24.600	24.790	24.510	24.320	24.510	24.510	24.790	24.700
136	25.530	25.630	25.070	25.070	24.980	24.600	24.880	24.980	25.350	25.160
137	26.090	25.910	25.530	25.530	25.630	25.160	25.160	25.440	25.630	25.630
138	26.470	26.190	26.000	26.000	25.720	25.630	25.720	25.720	26.190	25.910
139	26.840	26.560	26.370	26.280	26.090	26.090	26.090	26.280	26.470	26.280
140	27.210	26.930	26.750	26.750	26.370	26.370	26.470	26.650	26.840	26.750
141	27.580	27.310	27.120	27.210	26.930	26.840	26.750	27.030	27.210	27.210
142	28.050	28.050	27.400	27.490	27.400	27.400	27.120	27.310	27.490	27.400
143	28.330	28.330	27.960	27.960	27.860	27.770	27.400	27.770	27.770	27.860
144	28.700	28.700	28.240	28.240	27.960	28.050	27.860	28.140	28.240	28.240
145	29.170	28.980	28.700	28.520	28.330	28.330	28.330	28.420	28.610	28.700
146	29.540	29.540	28.890	28.890	28.700	28.610	28.520	28.800	28.980	29.080
147	29.820	29.910	29.260	29.450	29.080	29.170	28.980	29.170	29.360	29.260
148	30.380	30.100	29.630	29.730	29.360	29.540	29.450	29.360	29.630	29.730
149	30.660	30.380	30.100	30.190	29.910	29.730	29.630	29.730	29.910	30.010
150	30.940	30.750	30.750	30.570	30.100	30.100	30.010	30.380	30.290	30.570
151	31.220	31.130	31.030	30.940	30.470	30.470	30.290	30.660	30.660	30.660
152	31.410	31.500	31.500	31.220	30.750	30.750	30.750	31.030	31.030	31.030
153	31.690	31.690	31.780	31.590	31.030	30.940	31.220	31.310	31.410	31.410
154	32.060	31.960	32.060	31.780	31.220	31.220	31.410	31.500	31.690	31.690
155	32.340	32.340	32.240	32.150	31.590	31.590	31.780	31.960	31.960	31.960
156	32.800	32.710	32.710	32.340	31.780	31.870	32.240	32.240	32.240	32.240
157	32.990	32.800	33.080	32.710	32.150	32.150	32.430	32.620	32.620	32.430
158	33.270	33.080	33.360	32.900	32.710	32.620	32.620	32.800	32.900	32.710
159	33.460	33.360	33.550	33.360	33.080	32.800	33.180	32.990	33.180	32.990
160	33.830	33.550	33.830	33.740	33.360	33.180	33.550	33.270	33.550	33.180
161	34.010	33.830	34.110	34.110	33.550	33.550	33.830	33.640	33.550	33.550
162	34.390	34.110	34.480	34.390	33.830	34.110	34.010	33.920	33.920	33.920
163	34.480	34.390	34.670	34.570	33.830	34.200	33.920	34.290	34.290	34.110
164	34.670	34.570	34.850	34.950	34.010	34.480	34.290	34.480	34.480	34.290
165	35.040	34.760	35.040	35.040	34.290	34.760	34.570	34.670	34.670	34.480

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBULED100DMVWH50.IES

CANDELA TABULATION - (Cont.)

166	35.230	34.950	35.040	35.230	34.670	34.850	34.850	34.950	34.950	34.850
167	35.320	35.320	35.320	35.600	34.850	35.130	35.130	35.130	35.040	35.040
168	35.600	35.410	35.510	35.600	35.130	35.410	35.320	35.320	35.320	35.040
169	35.790	35.410	35.790	35.970	35.130	35.320	35.600	35.600	35.320	35.410
170	36.160	35.600	35.970	36.160	35.600	35.510	35.880	35.790	35.510	35.600
171	36.250	35.790	36.160	36.250	35.690	35.690	36.160	35.970	35.880	35.790
172	36.340	35.970	36.250	36.340	35.880	35.970	36.340	36.250	35.970	35.970
173	36.620	36.070	36.440	36.720	35.970	36.160	36.340	36.250	35.970	36.160
174	36.620	36.250	36.440	36.720	36.160	36.530	36.440	36.340	36.250	36.440
175	36.810	36.160	36.530	36.900	36.440	36.810	36.810	36.530	36.620	36.620
176	37.090	36.620	36.620	36.900	36.530	36.810	36.900	36.810	36.720	36.900
177	37.180	36.720	36.720	37.090	36.720	36.900	37.090	37.000	36.720	36.900
178	37.740	36.810	37.180	37.180	36.900	37.090	37.280	37.180	36.810	37.280
179	37.930	36.900	37.370	37.460	37.000	37.180	37.460	37.180	37.000	37.370
180	37.219	37.219	37.219	37.219	37.219	37.219	37.219	37.219	37.219	37.219

Vert. Horizontal Angles

	<u>300</u>	<u>330</u>	<u>360</u>
0	4161.666	4161.666	4161.666
1	4159.130	4156.240	4165.000
2	4159.970	4154.650	4162.200
3	4160.250	4153.160	4158.660
4	4159.130	4150.460	4153.910
5	4156.800	4147.110	4150.650
6	4152.980	4143.190	4146.080
7	4148.040	4137.410	4139.650
8	4140.770	4129.210	4131.540
9	4131.260	4119.330	4119.990
10	4119.890	4106.380	4107.030
11	4105.360	4093.240	4093.240
12	4090.170	4078.420	4078.700
13	4074.040	4062.300	4062.670
14	4057.830	4043.760	4043.760
15	4037.980	4026.140	4026.140
16	4019.810	4007.500	4007.320
17	4000.790	3988.490	3987.560
18	3981.410	3966.220	3967.710
19	3961.560	3945.810	3945.160
20	3939.010	3924.660	3923.540
21	3917.670	3902.200	3901.550
22	3895.950	3878.900	3878.810
23	3872.750	3852.340	3851.880
24	3845.630	3826.620	3825.970
25	3819.070	3799.970	3798.660
26	3790.930	3771.730	3769.310
27	3762.230	3738.370	3735.200
28	3730.730	3706.030	3701.740
29	3694.380	3672.300	3666.700
30	3659.530	3637.070	3630.640
31	3622.720	3596.530	3592.990
32	3583.670	3556.920	3550.210
33	3539.030	3515.640	3509.960
34	3497.380	3473.890	3468.110
35	3454.130	3430.090	3424.870
36	3409.680	3380.980	3375.850

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBULED100DMVWH50.IES

CANDELA TABULATION - (Cont.)

37	3359.360	3334.660	3329.260
38	3312.300	3286.950	3281.450
39	3264.020	3237.840	3232.530
40	3213.510	3182.200	3181.080
41	3157.130	3130.570	3123.490
42	3104.290	3076.900	3069.720
43	3050.060	3016.790	3013.620
44	2993.210	2959.380	2957.150
45	2929.000	2900.390	2893.590
46	2869.730	2840.660	2833.670
47	2808.320	2779.710	2772.160
48	2746.630	2710.470	2709.540
49	2677.200	2647.280	2639.640
50	2613.460	2583.080	2573.010
51	2547.850	2516.630	2507.680
52	2481.400	2443.940	2440.680
53	2408.810	2377.400	2373.210
54	2341.620	2309.750	2298.560
55	2274.050	2235.190	2229.230
56	2204.810	2165.490	2159.990
57	2135.380	2096.240	2091.210
58	2060.460	2027.750	2015.630
59	1991.780	1959.250	1947.320
60	1923.930	1884.790	1878.830
61	1856.280	1817.320	1804.180
62	1782.660	1750.690	1736.710
63	1716.210	1684.810	1671.110
64	1650.510	1613.140	1605.030
65	1579.960	1550.140	1539.800
66	1516.130	1486.400	1470.190
67	1453.220	1424.520	1407.470
68	1390.600	1356.490	1346.800
69	1323.130	1296.200	1280.630
70	1263.670	1237.770	1221.270
71	1204.870	1179.890	1163.770
72	1148.020	1117.740	1107.210
73	1091.360	1062.470	1046.070
74	1030.980	1008.330	990.720
75	976.550	949.990	937.780
76	924.180	898.920	885.970
77	868.260	848.790	834.990
78	817.470	798.740	780.760
79	766.870	749.260	730.710
80	716.450	694.000	681.410
81	661.190	644.420	631.740
82	612.170	595.770	582.260
83	563.340	547.310	528.390
84	513.390	491.210	478.440
85	452.720	435.300	423.930
86	398.390	381.060	365.400
87	348.070	332.510	317.970
88	300.450	280.320	270.070
89	248.260	231.860	221.240
90	206.790	200.270	193.000
91	191.230	183.960	178.650
92	176.600	170.070	165.880

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBULED100DMVWH50.IES

CANDELA TABULATION - (Cont.)

93	161.970	157.120	153.490
94	149.760	145.470	140.810
95	137.920	134.100	130.370
96	127.210	122.730	120.590
97	115.560	113.320	111.270
98	104.750	104.370	101.760
99	94.030	96.170	94.030
100	84.340	87.880	86.670
101	74.830	80.800	79.590
102	67.190	74.370	73.430
103	60.760	67.940	66.910
104	55.170	62.440	61.600
105	50.880	57.310	56.660
106	47.150	52.650	52.090
107	43.610	48.090	47.430
108	40.260	44.080	43.430
109	37.460	40.450	39.700
110	34.850	37.090	36.340
111	32.430	34.200	32.900
112	30.190	31.690	30.190
113	28.240	29.630	27.770
114	26.370	27.310	25.530
115	24.600	25.630	23.580
116	23.300	23.950	21.620
117	21.900	22.550	20.410
118	20.690	21.430	19.660
119	19.850	20.500	19.100
120	19.290	19.850	19.100
121	19.100	19.660	19.480
122	19.290	19.850	19.760
123	19.660	20.320	20.320
124	20.220	20.600	20.600
125	20.600	20.870	20.970
126	20.870	21.340	21.530
127	21.340	21.810	21.990
128	21.710	22.270	22.370
129	22.270	22.740	22.740
130	22.650	23.110	23.110
131	23.020	23.670	23.580
132	23.480	23.950	24.040
133	23.950	24.510	24.320
134	24.320	24.880	24.790
135	24.700	25.160	25.250
136	25.070	25.630	25.530
137	25.440	26.000	26.090
138	26.000	26.370	26.470
139	26.280	26.750	26.840
140	26.470	27.120	27.210
141	26.840	27.490	27.580
142	27.310	27.860	28.050
143	27.680	28.140	28.330
144	28.140	28.610	28.700
145	28.520	28.890	29.170
146	28.890	29.450	29.540
147	29.360	29.820	29.820
148	29.820	30.290	30.380

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBULED100DMVWH50.IES

CANDELA TABULATION - (Cont.)

149	30.190	30.470	30.660
150	30.570	30.660	30.940
151	30.750	31.030	31.220
152	31.130	31.410	31.410
153	31.410	31.590	31.690
154	31.690	31.960	32.060
155	31.960	32.240	32.340
156	32.340	32.520	32.800
157	32.620	32.800	32.990
158	32.800	32.990	33.270
159	33.080	33.180	33.460
160	33.360	33.550	33.830
161	33.640	33.920	34.010
162	33.830	34.110	34.390
163	34.110	34.200	34.480
164	34.200	34.480	34.670
165	34.390	34.670	35.040
166	34.760	34.760	35.230
167	34.950	34.950	35.320
168	35.040	35.230	35.600
169	35.130	35.510	35.790
170	35.600	35.510	36.160
171	35.410	35.880	36.250
172	35.600	35.970	36.340
173	35.790	36.250	36.620
174	35.970	36.340	36.620
175	36.160	36.340	36.810
176	36.250	36.340	37.090
177	36.620	36.810	37.180
178	36.810	36.900	37.740
179	36.900	36.900	37.930
180	37.219	37.219	37.219

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBULED100DMVWH50.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1538.01	11.60	11.60
0-30	3302.37	24.90	24.90
0-40	5469.51	41.20	41.20
0-60	9787.14	73.80	73.80
0-80	12428.93	93.70	93.70
0-90	12938.41	97.50	97.50
10-90	12542.85	94.50	94.50
20-40	3931.5	29.60	29.60
20-50	6201.85	46.70	46.70
40-70	5906.69	44.50	44.50
60-80	2641.79	19.90	19.90
70-80	1052.72	7.90	7.90
80-90	509.49	3.80	3.80
90-110	221.67	1.70	1.70
90-120	246.31	1.90	1.90
90-130	264.75	2.00	2.00
90-150	301.82	2.30	2.30
90-180	329.85	2.50	2.50
110-180	108.19	0.80	0.80
0-180	13268.27	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	395.57
10-20	1142.44
20-30	1764.36
30-40	2167.14
40-50	2270.34
50-60	2047.29
60-70	1589.06
70-80	1052.72
80-90	509.49
90-100	159.21
100-110	62.45
110-120	24.64
120-130	18.44
130-140	19.14
140-150	17.93
150-160	14.77
160-170	9.80
170-180	3.46

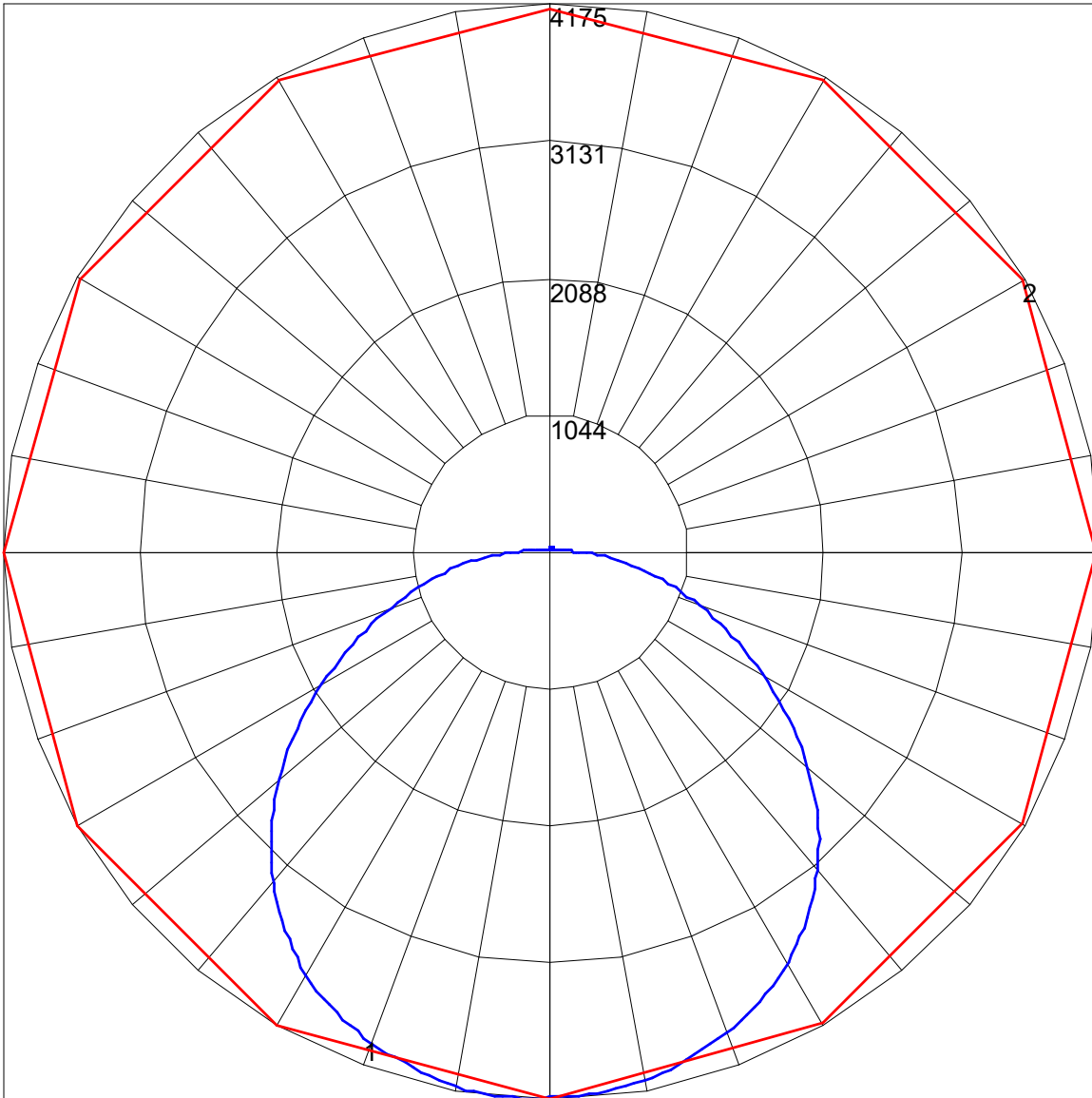
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBULED100DMVWH50.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	107	102	97	93	104	99	95	91	95	91	88	90	87	85	86	84	82	80
2	97	88	81	75	94	86	80	74	82	77	72	79	74	70	75	71	68	66
3	88	77	69	62	86	76	68	61	72	65	60	69	63	58	66	61	57	55
4	81	68	59	52	78	67	58	52	64	57	51	61	55	50	59	53	49	47
5	74	61	52	45	72	60	51	44	57	50	44	55	48	43	53	47	42	40
6	68	55	46	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	50	41	34	61	49	40	34	47	39	34	45	38	33	44	37	33	31
8	59	45	37	31	57	44	36	30	43	35	30	41	35	30	40	34	29	27
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26	25
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 4175.06 Located At Horizontal Angle = 210, Vertical Angle = 4
1 - Vertical Plane Through Horizontal Angles (210 - 30) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (4) (Through Max. Cd.)