



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED200DHV40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]
 [TESTLAB] Dongguan New Testing Centre Co., Ltd
 [TESTDATE] 21 May 2019
 [ISSUEDATE] 2019-05-21 09:49:47
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-R5000_V2 SYSTEM
 [MANUFAC] Mobern Lighting Co.
 [LUMCAT] HBRMSR-LED200DHV40
 [MORE] MHB04
 [LUMINAIRE] LED
 [BALLAST] 347-480Vac,50/60Hz
 [OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
[OTHER]	0- 10	1211.00	1211.00	4.03	4.03
[OTHER]	10- 20	3624.76	4835.76	16.11	16.11
[OTHER]	20- 30	5983.44	10819.20	36.04	36.04
[OTHER]	30- 40	7876.42	18695.63	62.29	62.29
[OTHER]	40- 50	7436.39	26132.02	87.06	87.06
[OTHER]	50- 60	3222.32	29354.34	97.79	97.79
[OTHER]	60- 70	409.82	29764.16	99.16	99.16
[OTHER]	70- 80	179.91	29944.07	99.76	99.76
[OTHER]	80- 90	49.45	29993.51	99.92	99.92
[OTHER]	90-100	0.28	29993.79	99.93	99.93
[OTHER]	100-110	0.88	29994.67	99.93	99.93
[OTHER]	110-120	1.80	29996.47	99.93	99.93
[OTHER]	120-130	3.00	29999.47	99.94	99.94
[OTHER]	130-140	4.10	30003.57	99.96	99.96
[OTHER]	140-150	4.58	30008.15	99.97	99.97
[OTHER]	150-160	4.20	30012.35	99.99	99.99
[OTHER]	160-170	2.86	30015.21	100.00	100.00
[OTHER]	170-180	1.01	30016.22	100.00	100.00
[OTHER]					

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CHARACTERISTICS

Lumens Per Lamp	30016 (1 lamp)
Total Lamp Lumens	30016
Luminaire Lumens	30016
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	200.611
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.52
Spacing Criterion (90-270)	1.48
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.35 m (Diameter)
Luminous Width (90-270)	0.35 m (Diameter)
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	145524	143564	140518
55	62115	59043	58914
65	7429	7350	7498
75	6698	6630	6522
85	5771	4678	3604

CANDELA TABULATION

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>	<u>105</u>	<u>120</u>	<u>135</u>
0	12663.72	12663.72	12663.72	12663.72	12663.72	12663.72	12663.72	12663.72	12663.72	12663.72
1	12776.37	12766.54	12769.97	12761.46	12760.53	12767.83	12411.82	12405.86	12404.11	12409.07
2	12773.64	12764.72	12756.44	12746.73	12749.36	12751.52	12413.82	12401.43	12406.08	12413.68
3	12767.65	12757.95	12738.43	12738.75	12744.83	12742.39	12402.75	12397.07	12405.42	12420.46
4	12767.24	12748.39	12733.88	12725.72	12736.17	12736.18	12403.74	12401.33	12406.98	12423.44
5	12760.23	12735.87	12722.35	12728.64	12732.12	12740.35	12403.39	12398.07	12415.49	12431.76
6	12759.54	12741.01	12729.48	12725.49	12723.72	12733.38	12400.71	12399.03	12416.15	12433.56
7	12748.40	12733.14	12729.07	12709.90	12716.52	12728.32	12391.83	12403.37	12425.53	12441.77
8	12753.66	12736.06	12720.82	12717.99	12715.99	12724.72	12398.12	12408.42	12429.31	12455.80
9	12754.82	12732.38	12711.83	12715.19	12711.65	12725.54	12402.11	12410.74	12437.61	12465.10
10	12757.18	12730.68	12702.61	12707.53	12708.61	12719.06	12404.75	12415.11	12448.88	12477.24
11	12760.77	12722.37	12705.56	12697.64	12711.54	12722.06	12406.55	12424.88	12456.93	12484.13
12	12755.95	12724.23	12716.53	12707.88	12709.35	12730.16	12415.86	12429.16	12466.32	12503.27
13	12765.96	12731.06	12711.33	12702.94	12715.52	12734.53	12418.94	12435.28	12482.15	12509.25
14	12763.65	12731.12	12705.27	12704.00	12711.08	12739.79	12425.87	12442.86	12485.06	12530.27
15	12780.75	12735.68	12716.42	12711.00	12726.25	12742.89	12427.05	12456.61	12505.69	12544.64
16	12780.97	12733.39	12717.66	12724.02	12729.63	12749.83	12442.62	12463.57	12516.50	12556.18
17	12787.89	12744.69	12724.92	12724.08	12731.66	12751.47	12446.03	12477.98	12532.14	12576.80
18	12799.63	12754.75	12735.37	12728.54	12737.26	12775.59	12456.38	12490.50	12551.60	12596.15
19	12820.96	12762.92	12746.40	12737.61	12744.66	12758.58	12468.17	12508.39	12567.16	12617.47
20	12824.11	12771.30	12751.70	12751.86	12759.12	12783.83	12484.66	12524.79	12584.12	12636.11
21	12835.53	12786.96	12762.79	12754.08	12772.93	12802.79	12495.55	12541.76	12605.95	12656.56
22	12846.70	12798.80	12768.10	12770.41	12787.68	12816.58	12508.38	12548.98	12620.66	12673.40
23	12872.07	12805.24	12782.12	12778.48	12800.50	12827.64	12522.05	12565.56	12634.54	12691.48
24	12867.89	12822.45	12794.68	12788.07	12808.28	12836.69	12538.45	12582.00	12645.54	12706.90
25	12882.91	12833.21	12807.14	12798.27	12819.75	12853.35	12542.50	12588.33	12656.82	12718.94
26	12889.97	12844.80	12808.43	12810.15	12823.78	12854.72	12556.15	12598.59	12663.77	12729.55
27	12899.30	12839.38	12816.88	12811.83	12830.73	12856.79	12555.15	12603.41	12671.08	12736.39
28	12891.88	12848.83	12814.84	12813.46	12819.58	12867.67	12551.67	12598.78	12666.96	12729.84
29	12886.56	12833.71	12802.50	12802.58	12820.49	12859.21	12546.59	12589.18	12656.21	12722.25
30	12872.27	12827.62	12791.02	12788.77	12803.29	12833.03	12531.00	12566.71	12645.48	12701.22
31	12856.12	12802.63	12776.83	12772.45	12783.72	12812.60	12505.28	12544.15	12612.34	12670.94
32	12822.46	12769.38	12735.43	12736.73	12750.95	12770.68	12471.88	12504.15	12579.61	12635.22
33	12783.83	12722.38	12688.62	12690.73	12704.37	12722.36	12426.51	12448.59	12523.47	12577.40
34	12713.25	12661.90	12633.20	12633.49	12636.95	12661.59	12364.04	12378.95	12458.35	12506.45
35	12646.01	12588.52	12560.64	12547.79	12555.28	12580.60	12278.20	12293.49	12368.39	12411.94
36	12541.95	12491.32	12453.92	12453.25	12450.69	12476.96	12172.36	12172.18	12256.25	12300.00
37	12411.64	12363.98	12334.94	12330.02	12320.60	12333.05	12043.34	12038.29	12113.23	12158.50
38	12263.29	12204.72	12167.18	12166.54	12154.62	12163.43	11876.66	11868.87	11947.17	11982.46
39	12066.62	12021.14	11962.67	11966.38	11953.19	11964.21	11682.83	11668.02	11745.12	11776.68
40	11831.15	11772.38	11720.59	11727.07	11718.42	11716.74	11445.41	11416.79	11499.54	11524.43
41	11555.16	11491.28	11433.08	11449.30	11422.72	11431.46	11177.07	11139.74	11214.08	11236.06
42	11223.54	11159.70	11110.11	11115.33	11090.50	11098.71	10854.17	10798.46	10884.66	10901.34
43	10844.08	10769.20	10714.61	10716.29	10696.48	10707.23	10478.05	10414.24	10498.70	10524.83
44	10403.19	10322.42	10254.08	10272.37	10246.21	10243.49	10055.67	9980.65	10071.10	10077.92
45	9904.47	9816.87	9742.48	9771.06	9733.78	9743.85	9563.75	9490.46	9579.76	9585.02
46	9337.40	9243.18	9161.32	9200.77	9168.21	9176.98	9030.06	8949.67	9039.95	9051.38
47	8724.02	8617.04	8541.68	8589.43	8545.68	8558.60	8437.44	8361.62	8452.13	8457.56
48	8059.71	7961.05	7885.79	7928.81	7894.06	7896.64	7799.84	7725.48	7829.77	7833.67
49	7382.71	7266.16	7198.79	7246.29	7202.28	7202.32	7138.25	7066.78	7160.61	7179.88
50	6681.85	6577.59	6512.14	6545.42	6495.22	6509.87	6457.42	6397.27	6502.41	6517.24
51	6012.73	5905.74	5826.19	5853.79	5803.42	5811.69	5790.24	5711.57	5832.08	5845.78
52	5340.91	5237.15	5172.65	5170.65	5124.05	5144.30	5127.71	5038.36	5168.35	5190.71
53	4687.13	4599.75	4521.83	4515.27	4475.40	4491.47	4483.18	4388.52	4524.50	4550.74

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CANDELA TABULATION - (Cont.)

54	4048.83	3962.85	3894.31	3879.94	3832.42	3855.30	3854.92	3769.81	3897.83	3921.28
55	3429.23	3349.65	3273.50	3259.62	3222.71	3242.81	3252.51	3165.05	3294.76	3312.82
56	2800.44	2741.34	2669.34	2659.54	2622.23	2648.19	2676.21	2597.44	2716.96	2741.18
57	2213.78	2230.57	2102.73	2176.53	2078.28	2177.08	2206.79	2081.00	2252.71	2217.17
58	1680.97	1719.79	1593.30	1693.52	1592.09	1705.96	1737.36	1616.64	1788.47	1744.44
59	1223.92	1212.84	1176.00	1215.48	1200.71	1238.02	1272.31	1226.90	1328.73	1339.97
60	882.92	871.75	848.87	893.95	887.93	927.10	960.06	925.54	1000.79	1009.48
61	714.43	627.50	657.84	652.12	690.38	693.28	717.39	754.61	743.88	815.02
62	547.20	477.47	468.19	494.19	494.00	533.47	545.49	583.92	559.04	621.56
63	379.97	388.35	379.07	392.81	394.76	424.62	429.07	413.23	429.05	428.09
64	331.29	337.99	327.87	334.54	335.13	355.49	351.55	342.09	349.06	348.67
65	302.18	307.34	297.63	298.99	298.86	313.70	305.01	299.44	304.92	305.73
66	281.26	284.99	276.35	276.20	276.27	286.61	277.72	272.71	277.86	278.88
67	264.10	267.60	260.37	259.04	260.25	266.85	258.92	254.17	258.36	260.08
68	250.05	252.69	246.54	245.33	247.78	250.59	244.41	239.54	243.30	245.29
69	237.51	239.33	234.42	234.06	236.62	236.94	232.08	228.25	231.05	232.51
70	225.63	227.22	223.78	223.53	226.27	225.71	221.57	218.03	220.51	220.92
71	214.74	215.31	213.59	212.63	214.43	213.97	210.85	208.94	209.80	210.36
72	203.16	203.40	202.23	201.73	202.25	202.23	200.14	200.42	199.09	199.93
73	191.62	191.49	190.38	190.81	190.17	190.47	189.40	190.99	188.36	188.71
74	179.41	179.39	178.30	178.98	177.03	177.71	176.19	178.11	175.60	176.49
75	166.87	166.12	165.34	165.17	163.80	163.74	162.48	163.52	162.88	163.65
76	154.55	153.34	152.68	151.74	150.92	150.26	149.75	148.78	150.66	150.62
77	142.27	140.53	140.29	138.96	138.24	136.70	136.52	134.87	138.47	137.78
78	129.70	128.31	128.47	126.55	125.93	122.81	122.61	120.64	126.17	125.55
79	118.22	116.39	116.44	114.49	113.48	110.09	110.48	108.70	113.71	113.67
80	106.07	104.90	104.56	102.54	100.77	96.96	97.76	96.32	100.93	102.03
81	94.62	93.82	93.10	91.15	87.80	83.94	84.04	82.50	89.24	90.43
82	83.00	82.74	81.38	79.27	74.26	70.96	71.54	68.65	76.51	77.46
83	71.37	71.02	69.65	66.05	60.70	56.44	56.88	54.80	63.20	64.49
84	59.74	58.77	57.93	51.95	45.82	41.64	43.35	40.56	48.28	51.51
85	48.41	47.18	45.06	39.24	31.26	28.94	30.23	27.25	34.77	38.10
86	35.74	32.54	30.80	26.52	17.70	16.23	17.12	13.72	21.25	23.88
87	23.03	17.91	15.14	13.81	11.85	3.72	4.20	9.20	7.82	10.87
88	15.42	3.31	10.05	1.13	6.03	0.22	0.35	4.72	0.66	7.35
89	7.85	0.09	5.15	0.08	0.21	0.08	0.22	0.23	0.22	3.84
90	0.29	0.08	0.24	0.08	0.08	0.08	0.20	0.21	0.20	0.32
91	0.08	0.08	0.08	0.08	0.08	0.08	0.22	0.22	0.22	0.22
92	0.09	0.09	0.09	0.09	0.09	0.09	0.25	0.25	0.24	0.24
93	0.10	0.10	0.10	0.10	0.10	0.09	0.27	0.28	0.27	0.27
94	0.11	0.11	0.11	0.11	0.11	0.11	0.31	0.32	0.30	0.30
95	0.12	0.12	0.13	0.12	0.13	0.12	0.36	0.36	0.35	0.35
96	0.14	0.14	0.14	0.14	0.14	0.14	0.41	0.42	0.41	0.42
97	0.16	0.16	0.16	0.16	0.16	0.16	0.48	0.49	0.47	0.50
98	0.18	0.18	0.19	0.18	0.19	0.18	0.55	0.56	0.54	0.57
99	0.20	0.20	0.21	0.21	0.21	0.20	0.63	0.64	0.62	0.65
100	0.23	0.23	0.24	0.24	0.24	0.23	0.73	0.74	0.71	0.74
101	0.26	0.26	0.27	0.27	0.28	0.27	0.83	0.84	0.81	0.84
102	0.30	0.30	0.31	0.31	0.31	0.30	0.94	0.95	0.92	0.96
103	0.34	0.34	0.35	0.35	0.35	0.34	1.07	1.08	1.05	1.08
104	0.37	0.38	0.39	0.39	0.39	0.38	1.20	1.21	1.18	1.22
105	0.42	0.42	0.43	0.43	0.44	0.42	1.32	1.33	1.30	1.34
106	0.47	0.47	0.48	0.48	0.49	0.47	1.43	1.44	1.41	1.46
107	0.52	0.52	0.54	0.54	0.54	0.52	1.54	1.55	1.52	1.57
108	0.59	0.59	0.60	0.60	0.60	0.58	1.64	1.65	1.63	1.69
109	0.66	0.66	0.68	0.67	0.67	0.64	1.74	1.75	1.74	1.80

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CANDELA TABULATION - (Cont.)

110	0.74	0.74	0.75	0.75	0.74	0.71	1.83	1.84	1.84	1.92
111	0.83	0.83	0.84	0.83	0.82	0.79	1.92	1.94	1.95	2.04
112	0.92	0.92	0.93	0.91	0.90	0.87	2.01	2.04	2.06	2.17
113	1.02	1.02	1.03	1.01	0.98	0.95	2.12	2.16	2.17	2.29
114	1.12	1.12	1.13	1.11	1.08	1.05	2.23	2.27	2.29	2.43
115	1.23	1.23	1.25	1.21	1.19	1.15	2.34	2.39	2.41	2.57
116	1.34	1.35	1.36	1.33	1.30	1.26	2.45	2.53	2.56	2.72
117	1.46	1.47	1.48	1.45	1.42	1.37	2.66	2.72	2.74	2.88
118	1.58	1.60	1.61	1.57	1.55	1.49	2.87	2.89	2.90	3.06
119	1.71	1.73	1.74	1.70	1.68	1.61	3.01	3.06	3.07	3.24
120	1.84	1.87	1.87	1.83	1.82	1.74	3.17	3.22	3.22	3.42
121	1.98	2.01	2.01	1.96	1.96	1.86	3.31	3.38	3.38	3.60
122	2.12	2.15	2.14	2.09	2.10	2.00	3.47	3.54	3.54	3.79
123	2.27	2.29	2.28	2.23	2.25	2.13	3.64	3.72	3.70	3.98
124	2.41	2.42	2.41	2.36	2.38	2.27	3.82	3.91	3.89	4.18
125	2.55	2.57	2.55	2.50	2.52	2.41	4.01	4.11	4.10	4.40
126	2.69	2.71	2.69	2.64	2.66	2.56	4.23	4.31	4.32	4.63
127	2.84	2.86	2.84	2.78	2.82	2.73	4.44	4.54	4.56	4.86
128	3.00	3.01	3.00	2.92	2.98	2.91	4.67	4.79	4.82	5.10
129	3.15	3.17	3.17	3.06	3.14	3.10	4.90	5.04	5.07	5.35
130	3.32	3.34	3.33	3.22	3.30	3.28	5.15	5.29	5.35	5.61
131	3.49	3.52	3.50	3.38	3.46	3.46	5.39	5.53	5.60	5.88
132	3.68	3.70	3.66	3.54	3.62	3.65	5.60	5.77	5.86	6.15
133	3.87	3.88	3.84	3.72	3.79	3.85	5.80	6.01	6.09	6.43
134	4.04	4.06	4.00	3.93	3.95	4.04	6.00	6.23	6.31	6.67
135	4.19	4.23	4.16	4.12	4.10	4.23	6.22	6.43	6.52	6.91
136	4.36	4.37	4.32	4.32	4.27	4.41	6.43	6.63	6.73	7.14
137	4.55	4.54	4.49	4.53	4.45	4.60	6.61	6.85	6.94	7.38
138	4.75	4.71	4.67	4.74	4.63	4.79	6.81	7.06	7.14	7.61
139	4.94	4.90	4.87	4.92	4.81	4.99	7.00	7.22	7.28	7.78
140	5.15	5.08	5.07	5.10	4.99	5.17	7.20	7.43	7.49	8.01
141	5.34	5.27	5.28	5.27	5.19	5.36	7.41	7.65	7.72	8.24
142	5.50	5.48	5.51	5.45	5.39	5.54	7.63	7.90	7.95	8.45
143	5.67	5.70	5.74	5.62	5.59	5.73	7.85	8.15	8.19	8.67
144	5.83	5.90	5.92	5.80	5.78	5.93	8.10	8.44	8.43	8.91
145	6.02	6.10	6.07	5.98	5.95	6.10	8.40	8.70	8.65	9.15
146	6.17	6.27	6.19	6.17	6.12	6.27	8.65	8.95	8.86	9.40
147	6.29	6.39	6.30	6.35	6.29	6.44	8.90	9.15	9.06	9.66
148	6.36	6.49	6.41	6.50	6.43	6.59	9.14	9.33	9.27	9.91
149	6.43	6.55	6.53	6.66	6.62	6.72	9.34	9.51	9.48	10.17
150	6.53	6.65	6.68	6.84	6.82	6.85	9.56	9.70	9.74	10.41
151	6.63	6.79	6.86	7.01	7.04	6.99	9.76	9.88	10.00	10.62
152	6.74	6.94	7.02	7.17	7.30	7.12	9.93	10.05	10.28	10.80
153	6.81	7.08	7.18	7.31	7.52	7.23	10.11	10.23	10.59	11.01
154	6.84	7.19	7.31	7.43	7.73	7.37	10.31	10.41	10.83	11.19
155	6.85	7.32	7.44	7.56	7.91	7.57	10.50	10.66	11.06	11.37
156	6.90	7.42	7.56	7.70	8.05	7.77	10.74	10.92	11.26	11.56
157	6.94	7.54	7.69	7.87	8.15	7.95	11.01	11.15	11.43	11.77
158	7.00	7.65	7.80	8.03	8.22	8.12	11.26	11.38	11.58	11.97
159	7.07	7.74	7.90	8.18	8.27	8.20	11.49	11.52	11.69	12.15
160	7.13	7.81	8.02	8.31	8.30	8.25	11.61	11.60	11.76	12.29
161	7.18	7.87	8.12	8.41	8.33	8.30	11.63	11.63	11.80	12.39
162	7.28	7.96	8.21	8.47	8.34	8.35	11.61	11.62	11.81	12.44
163	7.46	8.08	8.36	8.56	8.40	8.43	11.60	11.62	11.81	12.46
164	7.70	8.23	8.52	8.66	8.49	8.54	11.60	11.67	11.84	12.52
165	7.98	8.40	8.69	8.79	8.63	8.69	11.61	11.74	11.91	12.57

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED200DHV40.IES

CANDELA TABULATION - (Cont.)

166	8.21	8.60	8.88	8.93	8.84	8.88	11.58	11.80	11.98	12.60
167	8.39	8.78	9.00	9.03	8.98	9.04	11.59	11.83	12.02	12.62
168	8.52	8.87	9.10	9.07	9.09	9.17	11.60	11.82	12.01	12.55
169	8.67	8.85	9.12	9.12	9.14	9.23	11.55	11.74	11.94	12.43
170	8.73	8.71	9.04	9.09	9.10	9.20	11.53	11.69	11.86	12.36
171	8.76	8.59	9.02	9.06	9.07	9.18	11.58	11.71	11.87	12.32
172	8.85	8.75	9.15	9.15	9.18	9.29	11.56	11.68	11.83	12.20
173	8.98	9.01	9.36	9.34	9.38	9.52	11.49	11.63	11.75	12.07
174	9.27	9.33	9.66	9.73	9.76	9.93	11.48	11.62	11.70	12.01
175	9.55	9.69	10.04	10.09	10.18	10.35	11.43	11.57	11.65	11.94
176	9.80	9.91	10.31	10.26	10.42	10.60	11.30	11.48	11.55	11.83
177	10.03	10.07	10.46	10.41	10.57	10.75	11.19	11.36	11.45	11.72
178	10.24	10.14	10.50	10.49	10.58	10.78	10.98	11.17	11.23	11.55
179	10.54	10.24	10.45	10.59	10.61	10.84	10.88	11.09	11.14	11.46
180	10.82	10.82	10.82	10.82	10.82	10.82	10.82	10.82	10.82	10.82

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>165</u>	<u>180</u>	<u>195</u>	<u>210</u>	<u>225</u>	<u>240</u>	<u>255</u>	<u>270</u>	<u>285</u>
0	12663.72	12663.72	12663.72	12663.72	12663.72	12663.72	12663.72	12663.72	12663.72	12663.72
1	12819.89	12799.40	12804.80	12778.92	12785.75	12781.44	12777.96	12769.71	12430.07	12409.18
2	12825.20	12806.96	12812.44	12804.89	12795.17	12800.38	12797.54	12804.68	12435.18	12417.92
3	12839.93	12828.84	12824.82	12819.12	12806.15	12808.20	12808.28	12806.08	12445.13	12424.47
4	12839.93	12836.50	12845.08	12826.12	12821.37	12821.34	12818.04	12821.15	12454.85	12432.30
5	12855.95	12839.49	12860.80	12844.60	12840.03	12848.53	12836.28	12832.13	12465.86	12441.16
6	12865.11	12853.63	12874.34	12867.61	12862.54	12860.37	12862.22	12853.99	12483.26	12452.45
7	12867.55	12877.77	12889.38	12884.72	12884.63	12877.45	12876.29	12864.20	12497.83	12465.26
8	12878.68	12888.39	12908.22	12909.60	12899.17	12902.02	12893.00	12877.23	12509.90	12472.45
9	12899.36	12905.09	12917.88	12924.78	12928.20	12916.86	12920.38	12900.43	12530.37	12488.54
10	12910.98	12924.65	12947.24	12950.61	12951.26	12944.79	12937.62	12910.29	12545.25	12502.94
11	12937.11	12943.18	12967.31	12968.15	12979.18	12959.13	12949.46	12946.87	12558.27	12516.23
12	12938.61	12966.72	12996.76	12993.91	12997.03	12993.01	12975.41	12956.98	12579.83	12531.60
13	12959.08	12984.90	13019.89	13021.59	13008.22	13020.19	13001.48	12979.25	12595.34	12551.04
14	12983.00	13005.28	13028.88	13040.81	13030.93	13033.85	13021.66	12997.45	12613.28	12564.45
15	13005.01	13025.34	13064.03	13072.19	13066.11	13069.67	13049.43	13029.44	12634.63	12580.73
16	13021.36	13044.12	13089.56	13090.97	13097.07	13081.47	13079.62	13040.48	12657.04	12599.62
17	13038.00	13076.91	13117.42	13120.48	13121.96	13116.33	13103.23	13070.23	12676.42	12621.35
18	13063.43	13101.16	13137.18	13143.80	13150.53	13146.21	13123.39	13096.48	12699.08	12643.47
19	13087.36	13120.58	13163.76	13168.50	13171.03	13169.39	13151.89	13114.68	12720.61	12662.74
20	13104.81	13149.83	13186.13	13198.73	13191.63	13192.18	13176.91	13140.28	12744.65	12679.37
21	13116.44	13168.00	13212.49	13215.04	13225.97	13222.52	13194.69	13158.05	12762.96	12703.27
22	13149.90	13193.57	13231.10	13247.62	13244.20	13238.19	13214.33	13178.53	12782.88	12719.56
23	13174.02	13217.19	13265.98	13269.89	13272.18	13272.69	13246.02	13206.36	12802.82	12740.93
24	13178.41	13222.81	13275.30	13285.93	13293.87	13273.45	13260.75	13227.82	12817.88	12754.51
25	13203.51	13240.57	13295.02	13301.88	13305.21	13299.47	13269.90	13236.68	12834.03	12771.40
26	13216.41	13260.15	13301.27	13313.60	13314.86	13317.54	13287.96	13245.25	12842.05	12779.60
27	13210.21	13254.46	13308.16	13329.00	13326.10	13306.25	13291.55	13266.20	12848.46	12790.28
28	13218.25	13259.26	13313.74	13320.37	13329.58	13324.77	13293.21	13257.02	12847.66	12783.93
29	13205.23	13243.52	13288.29	13313.44	13321.84	13301.23	13286.39	13242.77	12833.96	12774.54
30	13186.11	13225.81	13272.75	13290.59	13296.72	13290.77	13267.70	13225.98	12819.89	12759.03
31	13154.77	13202.36	13245.95	13259.74	13282.29	13261.41	13235.61	13200.10	12787.45	12737.85
32	13113.84	13148.13	13201.35	13218.54	13238.83	13212.50	13194.28	13159.78	12747.81	12706.33
33	13052.28	13095.80	13130.97	13159.22	13172.53	13167.13	13142.46	13099.25	12696.54	12647.64
34	12977.61	13015.47	13059.15	13082.08	13092.25	13096.56	13067.72	13028.54	12627.29	12587.94
35	12887.24	12924.91	12958.83	12977.61	13004.49	12988.89	12975.04	12936.76	12541.11	12499.90
36	12755.95	12803.04	12834.56	12860.19	12887.41	12879.97	12858.48	12827.71	12431.12	12393.51

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED200DHV40.IES

CANDELA TABULATION - (Cont.)

37	12617.92	12644.58	12687.24	12708.57	12737.19	12733.49	12718.86	12688.31	12291.45	12268.51
38	12430.96	12459.72	12496.96	12516.88	12561.94	12567.13	12550.62	12518.73	12123.70	12112.41
39	12215.77	12238.87	12287.60	12304.45	12346.14	12353.39	12347.91	12317.71	11926.66	11921.53
40	11959.41	11984.04	12008.10	12048.48	12102.44	12103.98	12108.84	12085.12	11689.00	11697.74
41	11661.53	11676.16	11718.09	11750.05	11814.01	11830.20	11831.52	11785.36	11417.53	11438.07
42	11311.03	11325.24	11373.79	11408.25	11481.33	11487.87	11505.75	11472.89	11094.15	11137.59
43	10913.89	10933.20	10968.51	11016.36	11095.97	11112.87	11136.75	11110.37	10735.38	10785.09
44	10463.45	10478.82	10519.15	10567.55	10661.33	10698.20	10714.23	10693.00	10322.77	10384.58
45	9962.40	9968.52	10021.25	10076.44	10183.79	10220.84	10244.07	10217.75	9857.57	9935.79
46	9402.08	9415.99	9470.87	9518.48	9647.44	9697.93	9735.06	9698.30	9352.79	9440.00
47	8781.92	8808.65	8865.82	8920.76	9054.40	9118.78	9160.52	9125.00	8799.47	8887.90
48	8146.33	8168.17	8225.85	8278.99	8434.48	8519.11	8553.97	8515.40	8200.88	8301.04
49	7475.21	7497.27	7559.39	7620.77	7772.22	7862.25	7906.21	7869.56	7571.21	7671.27
50	6791.99	6814.85	6888.61	6942.64	7106.94	7193.49	7246.88	7210.56	6923.70	7019.54
51	6107.79	6128.22	6199.37	6260.03	6430.01	6513.27	6562.71	6531.59	6271.86	6357.68
52	5438.66	5449.16	5528.38	5588.81	5749.95	5824.12	5888.86	5856.87	5614.96	5689.65
53	4782.28	4799.19	4870.52	4935.92	5091.74	5154.12	5219.53	5196.22	4975.10	5039.70
54	4134.95	4167.00	4243.39	4306.49	4447.27	4491.73	4565.26	4539.53	4333.58	4393.12
55	3510.92	3553.17	3635.31	3687.53	3821.13	3861.66	3939.60	3907.40	3710.70	3770.86
56	2925.68	2982.05	3063.63	3110.35	3217.20	3251.73	3315.23	3281.72	3101.30	3161.03
57	2435.52	2439.15	2523.14	2546.87	2646.90	2675.71	2724.28	2690.35	2523.81	2585.45
58	1945.36	1941.01	2078.94	2033.30	2176.28	2136.57	2236.36	2139.20	1989.41	2115.22
59	1456.70	1501.26	1634.74	1570.97	1705.66	1647.63	1748.43	1651.97	1524.37	1644.99
60	1096.29	1131.39	1190.66	1181.73	1239.49	1229.81	1261.72	1230.73	1128.62	1176.30
61	812.38	833.26	875.07	863.09	901.23	888.89	909.41	888.67	892.52	837.20
62	598.61	643.13	638.46	701.74	651.73	717.05	651.12	713.49	659.84	593.01
63	451.22	455.84	475.98	544.14	484.40	548.27	480.58	543.28	427.16	439.79
64	361.13	363.30	379.08	386.53	385.72	379.49	380.47	373.06	347.48	354.81
65	310.88	311.43	324.27	334.47	334.62	330.77	328.67	326.77	308.15	311.27
66	283.25	283.50	294.93	304.39	305.75	301.39	299.73	300.04	286.09	286.61
67	264.90	265.39	276.02	284.29	287.07	281.95	280.96	281.96	269.96	269.27
68	250.97	252.49	262.49	268.84	272.25	267.44	266.12	267.06	256.13	254.85
69	238.97	240.90	251.03	255.43	259.85	254.94	253.08	253.59	243.54	242.25
70	227.97	230.49	240.15	243.69	247.99	243.99	241.56	241.97	232.52	230.90
71	216.71	220.42	229.59	232.56	236.48	233.55	230.81	230.37	221.52	220.36
72	205.44	209.22	216.87	220.75	224.72	222.50	219.61	218.93	210.49	209.45
73	194.16	198.14	204.15	207.45	210.73	211.11	207.26	206.00	198.93	198.53
74	182.71	185.74	191.41	194.22	196.74	198.05	194.90	193.18	186.07	187.60
75	170.10	172.36	178.09	180.26	182.75	184.42	181.70	179.94	173.52	175.08
76	158.35	159.15	165.04	165.72	168.91	169.92	168.83	166.24	160.77	162.34
77	146.00	145.92	152.35	151.99	155.40	155.71	156.05	152.76	147.22	149.30
78	133.44	133.27	138.98	138.14	141.89	142.33	142.96	138.96	133.90	135.98
79	121.15	121.08	126.87	125.50	129.18	129.24	130.03	125.15	119.86	122.63
80	108.93	109.33	114.49	112.51	116.56	116.64	116.85	111.89	106.90	109.68
81	97.12	97.48	102.14	100.42	104.32	104.02	103.38	98.46	93.72	97.33
82	85.61	85.20	89.93	88.81	92.30	91.61	89.62	83.73	79.71	85.14
83	73.83	72.89	78.22	76.20	79.98	76.76	75.79	68.98	65.69	72.29
84	61.50	60.59	65.59	63.59	67.22	61.84	60.03	54.23	51.66	56.48
85	49.32	48.32	52.83	50.98	53.76	46.92	44.03	38.49	37.76	41.30
86	33.93	35.55	39.99	37.65	38.57	30.03	30.21	24.02	23.33	28.91
87	18.54	21.01	26.70	23.04	21.72	15.40	16.39	9.24	8.89	16.54
88	3.34	13.97	13.42	15.49	4.89	10.22	2.65	4.75	4.45	4.30
89	0.21	7.15	0.20	7.94	0.21	5.24	0.24	0.33	0.13	0.16
90	0.21	0.34	0.20	0.39	0.19	0.26	0.19	0.20	0.07	0.08
91	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.07	0.07
92	0.25	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.08	0.08

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED200DHV40.IES

CANDELA TABULATION - (Cont.)

93	0.27	0.27	0.26	0.26	0.25	0.25	0.25	0.25	0.09	0.08
94	0.31	0.30	0.29	0.29	0.28	0.28	0.28	0.29	0.09	0.09
95	0.35	0.34	0.33	0.33	0.32	0.32	0.32	0.33	0.10	0.10
96	0.41	0.39	0.38	0.38	0.37	0.37	0.37	0.37	0.12	0.11
97	0.48	0.46	0.44	0.44	0.43	0.43	0.42	0.43	0.13	0.13
98	0.55	0.53	0.51	0.50	0.49	0.49	0.49	0.49	0.15	0.15
99	0.63	0.61	0.58	0.58	0.56	0.56	0.56	0.57	0.17	0.17
100	0.72	0.70	0.67	0.66	0.65	0.65	0.64	0.65	0.20	0.19
101	0.82	0.80	0.77	0.76	0.74	0.74	0.73	0.74	0.23	0.22
102	0.93	0.91	0.87	0.86	0.84	0.84	0.83	0.84	0.26	0.25
103	1.05	1.03	0.99	0.98	0.96	0.96	0.95	0.96	0.29	0.29
104	1.18	1.16	1.12	1.10	1.08	1.08	1.07	1.08	0.33	0.32
105	1.31	1.28	1.24	1.22	1.20	1.20	1.18	1.19	0.37	0.36
106	1.42	1.40	1.35	1.33	1.30	1.30	1.29	1.29	0.41	0.40
107	1.54	1.51	1.46	1.44	1.41	1.41	1.39	1.40	0.45	0.44
108	1.65	1.62	1.58	1.55	1.52	1.52	1.49	1.50	0.50	0.49
109	1.78	1.75	1.70	1.67	1.64	1.63	1.60	1.60	0.56	0.55
110	1.90	1.88	1.83	1.80	1.76	1.75	1.70	1.69	0.62	0.61
111	2.03	2.01	1.96	1.93	1.89	1.87	1.81	1.79	0.70	0.66
112	2.16	2.15	2.10	2.07	2.02	1.99	1.93	1.90	0.77	0.71
113	2.29	2.29	2.25	2.21	2.16	2.11	2.04	2.01	0.85	0.78
114	2.43	2.43	2.39	2.36	2.30	2.24	2.16	2.13	0.94	0.86
115	2.57	2.57	2.54	2.51	2.44	2.37	2.29	2.24	1.04	0.96
116	2.72	2.72	2.70	2.66	2.59	2.51	2.44	2.38	1.15	1.07
117	2.87	2.88	2.85	2.82	2.74	2.67	2.59	2.58	1.25	1.17
118	3.03	3.05	3.02	2.98	2.89	2.84	2.75	2.75	1.36	1.28
119	3.22	3.22	3.19	3.15	3.07	3.01	2.92	2.92	1.48	1.39
120	3.42	3.38	3.36	3.31	3.25	3.18	3.10	3.09	1.61	1.52
121	3.60	3.57	3.54	3.48	3.44	3.34	3.27	3.25	1.74	1.65
122	3.81	3.78	3.72	3.68	3.61	3.50	3.44	3.42	1.87	1.78
123	4.03	4.00	3.91	3.91	3.79	3.69	3.60	3.59	2.00	1.92
124	4.26	4.26	4.15	4.12	3.98	3.88	3.79	3.78	2.14	2.06
125	4.48	4.52	4.47	4.37	4.21	4.10	4.00	3.98	2.28	2.21
126	4.72	4.77	4.76	4.61	4.44	4.33	4.21	4.18	2.43	2.34
127	4.96	5.02	5.02	4.85	4.69	4.56	4.42	4.39	2.57	2.48
128	5.23	5.29	5.27	5.10	4.94	4.79	4.63	4.61	2.72	2.64
129	5.49	5.55	5.51	5.36	5.18	5.00	4.86	4.86	2.89	2.81
130	5.76	5.81	5.71	5.58	5.42	5.22	5.12	5.12	3.07	2.99
131	6.01	6.07	5.95	5.81	5.64	5.47	5.39	5.37	3.27	3.17
132	6.26	6.31	6.21	6.05	5.85	5.72	5.62	5.58	3.47	3.37
133	6.52	6.56	6.44	6.28	6.05	5.93	5.84	5.79	3.67	3.58
134	6.76	6.75	6.63	6.50	6.25	6.11	6.03	5.99	3.87	3.79
135	6.98	6.89	6.81	6.70	6.48	6.34	6.21	6.19	4.05	3.98
136	7.21	7.12	6.99	6.88	6.68	6.57	6.40	6.42	4.23	4.17
137	7.42	7.35	7.17	7.04	6.93	6.80	6.60	6.62	4.41	4.38
138	7.63	7.52	7.36	7.23	7.13	7.07	6.83	6.85	4.61	4.60
139	7.78	7.68	7.56	7.40	7.30	7.23	7.02	7.08	4.79	4.80
140	7.98	7.90	7.79	7.59	7.50	7.45	7.23	7.33	4.96	5.00
141	8.21	8.11	8.02	7.76	7.73	7.66	7.46	7.55	5.13	5.20
142	8.45	8.32	8.25	7.93	7.99	7.89	7.71	7.79	5.32	5.42
143	8.70	8.55	8.50	8.13	8.25	8.10	7.95	8.04	5.51	5.63
144	8.94	8.81	8.74	8.34	8.45	8.34	8.19	8.30	5.69	5.82
145	9.18	9.05	8.97	8.63	8.67	8.58	8.43	8.60	5.86	6.00
146	9.43	9.29	9.21	8.99	8.88	8.81	8.65	8.83	6.01	6.16
147	9.65	9.54	9.46	9.29	9.09	9.07	8.91	9.02	6.17	6.32
148	9.84	9.76	9.71	9.53	9.28	9.33	9.14	9.24	6.32	6.46

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED200DHV40.IES

CANDELA TABULATION - (Cont.)

149	10.06	9.98	9.88	9.74	9.47	9.60	9.45	9.47	6.47	6.61
150	10.28	10.19	9.96	9.94	9.66	9.86	9.77	9.70	6.64	6.77
151	10.48	10.36	10.10	10.11	9.84	10.10	10.07	9.93	6.83	6.95
152	10.65	10.55	10.31	10.27	10.05	10.26	10.35	10.13	7.00	7.13
153	10.85	10.78	10.50	10.48	10.33	10.43	10.63	10.30	7.13	7.29
154	11.04	10.93	10.61	10.67	10.59	10.61	10.91	10.48	7.26	7.43
155	11.22	11.07	10.70	10.82	10.78	10.79	11.16	10.68	7.37	7.57
156	11.39	11.20	10.79	10.92	10.95	10.91	11.40	10.92	7.49	7.71
157	11.55	11.35	10.92	11.01	11.06	11.04	11.58	11.19	7.65	7.84
158	11.70	11.53	11.05	11.15	11.16	11.17	11.72	11.42	7.80	7.97
159	11.83	11.68	11.18	11.29	11.26	11.34	11.80	11.64	7.92	8.09
160	11.94	11.79	11.30	11.36	11.35	11.52	11.85	11.75	7.99	8.14
161	12.02	11.84	11.36	11.35	11.40	11.64	11.85	11.80	8.02	8.18
162	12.08	11.86	11.38	11.32	11.43	11.66	11.84	11.81	8.04	8.21
163	12.13	11.86	11.47	11.32	11.44	11.66	11.84	11.81	8.11	8.31
164	12.25	11.90	11.60	11.45	11.49	11.67	11.84	11.86	8.22	8.45
165	12.34	11.98	11.68	11.61	11.50	11.67	11.87	11.87	8.35	8.60
166	12.40	12.02	11.74	11.71	11.52	11.68	11.89	11.85	8.52	8.77
167	12.41	11.99	11.75	11.66	11.48	11.65	11.89	11.84	8.70	8.93
168	12.38	11.90	11.75	11.58	11.36	11.63	11.87	11.78	8.83	9.05
169	12.30	11.75	11.67	11.61	11.27	11.59	11.79	11.67	8.94	9.14
170	12.21	11.66	11.58	11.59	11.08	11.48	11.70	11.59	8.93	9.13
171	12.15	11.61	11.48	11.65	11.08	11.53	11.72	11.67	8.92	9.13
172	12.10	11.61	11.28	11.61	11.10	11.54	11.71	11.69	9.04	9.25
173	12.02	11.55	11.09	11.54	11.05	11.52	11.64	11.65	9.29	9.47
174	11.96	11.47	11.00	11.43	10.98	11.47	11.58	11.67	9.73	9.87
175	11.88	11.35	11.01	11.27	10.94	11.41	11.50	11.64	10.17	10.31
176	11.80	11.30	11.04	11.11	10.87	11.27	11.30	11.50	10.40	10.61
177	11.62	11.18	11.00	10.91	10.80	11.14	11.12	11.33	10.61	10.89
178	11.37	11.05	10.84	10.62	10.66	10.91	10.86	11.08	10.67	10.94
179	11.25	10.98	10.83	10.48	10.61	10.77	10.77	10.99	10.73	10.96
180	10.82	10.82	10.82	10.82	10.82	10.82	10.82	10.82	10.82	10.82

Vert. Horizontal Angles

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	12663.72	12663.72	12663.72	12663.72	12663.72
1	12412.69	12404.44	12811.79	12789.85	12776.37
2	12414.79	12405.77	12811.46	12780.11	12773.64
3	12414.80	12409.43	12798.20	12785.16	12767.65
4	12424.06	12408.21	12800.05	12779.25	12767.24
5	12424.18	12413.47	12795.08	12775.17	12760.23
6	12428.11	12415.29	12807.12	12781.40	12759.54
7	12443.26	12421.17	12811.77	12772.46	12748.40
8	12453.21	12422.02	12798.18	12778.37	12753.66
9	12462.93	12432.00	12814.03	12780.32	12754.82
10	12480.03	12438.05	12823.47	12782.31	12757.18
11	12488.04	12446.68	12830.56	12782.47	12760.77
12	12497.07	12457.57	12837.73	12789.73	12755.95
13	12515.39	12471.13	12836.93	12796.80	12765.96
14	12521.17	12479.47	12853.83	12799.22	12763.65
15	12545.01	12492.67	12862.47	12806.10	12780.75
16	12559.97	12509.00	12870.22	12819.01	12780.97
17	12575.95	12515.40	12886.28	12826.75	12787.89
18	12593.96	12529.42	12896.60	12837.00	12799.63
19	12614.45	12549.92	12913.40	12850.04	12820.96

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED200DHV40.IES

CANDELA TABULATION - (Cont.)

20	12626.03	12566.42	12924.48	12856.65	12824.11
21	12646.46	12578.63	12942.38	12877.58	12835.53
22	12670.08	12599.77	12956.26	12890.57	12846.70
23	12686.41	12614.66	12982.49	12913.54	12872.07
24	12697.35	12628.61	12982.99	12924.24	12867.89
25	12710.82	12640.68	13002.88	12935.20	12882.91
26	12720.32	12649.45	13017.89	12941.01	12889.97
27	12715.79	12659.02	13016.53	12951.01	12899.30
28	12726.14	12655.66	13014.87	12934.81	12891.88
29	12714.75	12645.06	13011.15	12940.75	12886.56
30	12697.71	12635.05	12993.49	12928.98	12872.27
31	12671.87	12608.61	12972.95	12906.40	12856.12
32	12639.98	12574.17	12954.26	12876.90	12822.46
33	12584.64	12530.70	12904.24	12834.87	12783.83
34	12518.86	12466.70	12841.98	12786.38	12713.25
35	12434.44	12387.81	12757.66	12709.76	12646.01
36	12328.86	12288.78	12647.24	12603.03	12541.95
37	12196.27	12167.45	12524.94	12480.90	12411.64
38	12040.51	12008.90	12368.61	12321.43	12263.29
39	11849.92	11824.43	12183.17	12135.13	12066.62
40	11622.05	11598.34	11954.13	11900.73	11831.15
41	11357.74	11333.48	11681.60	11637.32	11555.16
42	11044.08	11025.50	11366.27	11311.72	11223.54
43	10697.40	10662.91	10982.61	10938.80	10844.08
44	10284.37	10257.58	10543.43	10508.26	10403.19
45	9831.99	9791.42	10064.06	10013.79	9904.47
46	9320.64	9272.52	9516.76	9469.23	9337.40
47	8760.21	8695.04	8918.03	8868.95	8724.02
48	8161.60	8082.11	8265.80	8213.83	8059.71
49	7523.50	7440.67	7597.69	7541.80	7382.71
50	6865.81	6775.10	6904.74	6848.26	6681.85
51	6205.25	6125.90	6210.97	6155.93	6012.73
52	5542.63	5471.54	5551.81	5471.50	5340.91
53	4891.57	4821.04	4876.45	4809.35	4687.13
54	4258.55	4192.28	4234.41	4146.73	4048.83
55	3639.71	3574.42	3591.98	3514.88	3429.23
56	3028.96	2960.24	2965.45	2890.71	2800.44
57	2454.12	2453.87	2381.32	2380.98	2213.78
58	1930.25	1947.50	1853.98	1871.26	1680.97
59	1465.87	1442.19	1405.90	1363.06	1223.92
60	1072.00	1056.18	1026.38	985.59	882.92
61	849.68	748.41	815.21	690.01	714.43
62	629.10	537.96	607.15	500.29	547.20
63	408.51	410.66	399.08	393.10	379.97
64	340.32	345.23	343.14	341.07	331.29
65	304.80	309.73	312.43	309.90	302.18
66	282.90	287.16	291.39	287.51	281.26
67	266.37	270.04	274.37	269.95	264.10
68	252.72	255.40	259.84	255.27	250.05
69	240.11	242.46	247.11	242.56	237.51
70	228.75	230.46	235.19	230.81	225.63
71	218.29	219.58	223.81	219.99	214.74
72	207.53	207.45	211.83	208.06	203.16
73	196.26	195.32	199.43	196.13	191.62
74	184.05	183.24	186.85	183.92	179.41
75	171.61	170.42	173.90	171.37	166.87

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED200DHV40.IES

CANDELA TABULATION - (Cont.)

76	159.36	157.76	161.02	158.26	154.55
77	146.98	145.50	148.67	145.25	142.27
78	134.47	132.87	136.12	132.67	129.70
79	122.72	120.96	124.27	120.39	118.22
80	110.15	109.17	112.09	108.55	106.07
81	98.03	97.78	100.15	96.89	94.62
82	87.36	86.51	87.94	85.79	83.00
83	73.25	74.59	75.97	74.12	71.37
84	59.12	61.63	64.01	61.76	59.74
85	44.39	48.55	52.05	50.20	48.41
86	29.24	35.39	38.96	38.06	35.74
87	16.56	22.23	25.11	25.38	23.03
88	11.04	9.23	10.02	12.70	15.42
89	5.58	0.82	4.98	0.19	7.85
90	0.11	0.07	0.18	0.08	0.29
91	0.08	0.07	0.08	0.08	0.08
92	0.08	0.08	0.09	0.09	0.09
93	0.09	0.09	0.10	0.10	0.10
94	0.09	0.10	0.11	0.11	0.11
95	0.11	0.11	0.12	0.12	0.12
96	0.12	0.12	0.13	0.13	0.14
97	0.14	0.14	0.15	0.15	0.16
98	0.15	0.16	0.17	0.17	0.18
99	0.18	0.18	0.20	0.20	0.20
100	0.20	0.20	0.22	0.23	0.23
101	0.23	0.23	0.26	0.26	0.26
102	0.26	0.26	0.29	0.29	0.30
103	0.29	0.30	0.33	0.33	0.34
104	0.33	0.33	0.36	0.37	0.37
105	0.37	0.37	0.41	0.41	0.42
106	0.41	0.41	0.45	0.46	0.47
107	0.46	0.46	0.51	0.51	0.52
108	0.51	0.52	0.57	0.57	0.59
109	0.57	0.57	0.63	0.64	0.66
110	0.63	0.64	0.70	0.72	0.74
111	0.70	0.71	0.77	0.80	0.83
112	0.78	0.79	0.84	0.89	0.92
113	0.86	0.87	0.92	0.98	1.02
114	0.94	0.97	1.02	1.08	1.12
115	1.04	1.07	1.13	1.19	1.23
116	1.14	1.17	1.26	1.29	1.34
117	1.25	1.28	1.39	1.41	1.46
118	1.36	1.39	1.52	1.53	1.58
119	1.49	1.51	1.66	1.64	1.71
120	1.62	1.64	1.80	1.74	1.84
121	1.75	1.77	1.94	1.85	1.98
122	1.88	1.91	2.09	1.96	2.12
123	2.01	2.04	2.24	2.08	2.27
124	2.15	2.17	2.39	2.22	2.41
125	2.30	2.31	2.55	2.39	2.55
126	2.45	2.45	2.71	2.58	2.69
127	2.61	2.58	2.88	2.77	2.84
128	2.77	2.71	3.05	2.96	3.00
129	2.95	2.85	3.22	3.16	3.15
130	3.12	2.99	3.39	3.36	3.32
131	3.28	3.13	3.55	3.56	3.49

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED200DHV40.IES

CANDELA TABULATION - (Cont.)

132	3.43	3.27	3.69	3.76	3.68
133	3.58	3.41	3.83	3.96	3.87
134	3.75	3.56	3.97	4.14	4.04
135	3.93	3.74	4.12	4.30	4.19
136	4.11	3.96	4.30	4.46	4.36
137	4.28	4.22	4.49	4.66	4.55
138	4.45	4.47	4.71	4.86	4.75
139	4.64	4.66	4.92	5.06	4.94
140	4.85	4.80	5.14	5.25	5.15
141	5.06	4.95	5.35	5.44	5.34
142	5.25	5.09	5.56	5.61	5.50
143	5.44	5.27	5.77	5.77	5.67
144	5.66	5.47	5.93	5.93	5.83
145	5.86	5.67	6.04	6.07	6.02
146	6.04	5.84	6.12	6.24	6.17
147	6.20	6.02	6.20	6.39	6.29
148	6.37	6.19	6.26	6.53	6.36
149	6.55	6.33	6.34	6.65	6.43
150	6.76	6.45	6.45	6.75	6.53
151	6.98	6.58	6.58	6.85	6.63
152	7.19	6.71	6.73	6.95	6.74
153	7.37	6.81	6.88	7.08	6.81
154	7.52	6.92	7.03	7.20	6.84
155	7.66	7.02	7.15	7.29	6.85
156	7.79	7.14	7.22	7.35	6.90
157	7.89	7.25	7.29	7.38	6.94
158	7.93	7.39	7.37	7.40	7.00
159	7.96	7.53	7.45	7.42	7.07
160	7.99	7.66	7.55	7.44	7.13
161	8.01	7.78	7.66	7.49	7.18
162	8.07	7.90	7.77	7.59	7.28
163	8.20	8.05	7.91	7.77	7.46
164	8.34	8.24	8.08	7.98	7.70
165	8.53	8.43	8.29	8.22	7.98
166	8.70	8.66	8.54	8.47	8.21
167	8.87	8.86	8.71	8.64	8.39
168	9.04	8.97	8.78	8.69	8.52
169	9.16	9.10	8.77	8.77	8.67
170	9.17	9.14	8.74	8.79	8.73
171	9.16	9.14	8.78	8.86	8.76
172	9.27	9.27	8.97	8.99	8.85
173	9.49	9.50	9.21	9.20	8.98
174	9.91	9.90	9.67	9.57	9.27
175	10.29	10.27	10.08	9.93	9.55
176	10.55	10.51	10.37	10.26	9.80
177	10.75	10.72	10.59	10.53	10.03
178	10.86	10.82	10.76	10.67	10.24
179	10.97	10.93	10.93	10.79	10.54
180	10.82	10.82	10.82	10.82	10.82

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED200DHV40.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4835.76	16.10	16.10
0-30	10819.21	36.00	36.00
0-40	18695.63	62.30	62.30
0-60	29354.34	97.80	97.80
0-80	29944.07	99.80	99.80
0-90	29993.51	99.90	99.90
10-90	28782.51	95.90	95.90
20-40	13859.87	46.20	46.20
20-50	21296.26	70.90	70.90
40-70	11068.53	36.90	36.90
60-80	589.73	2.00	2.00
70-80	179.91	0.60	0.60
80-90	49.45	0.20	0.20
90-110	1.16	0.00	0.00
90-120	2.96	0.00	0.00
90-130	5.95	0.00	0.00
90-150	14.64	0.00	0.00
90-180	22.70	0.10	0.10
110-180	21.55	0.10	0.10
0-180	30016.22	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1211.00
10-20	3624.76
20-30	5983.44
30-40	7876.42
40-50	7436.39
50-60	3222.32
60-70	409.82
70-80	179.91
80-90	49.45
90-100	0.28
100-110	0.88
110-120	1.80
120-130	3.00
130-140	4.10
140-150	4.58
150-160	4.20
160-170	2.86
170-180	1.01

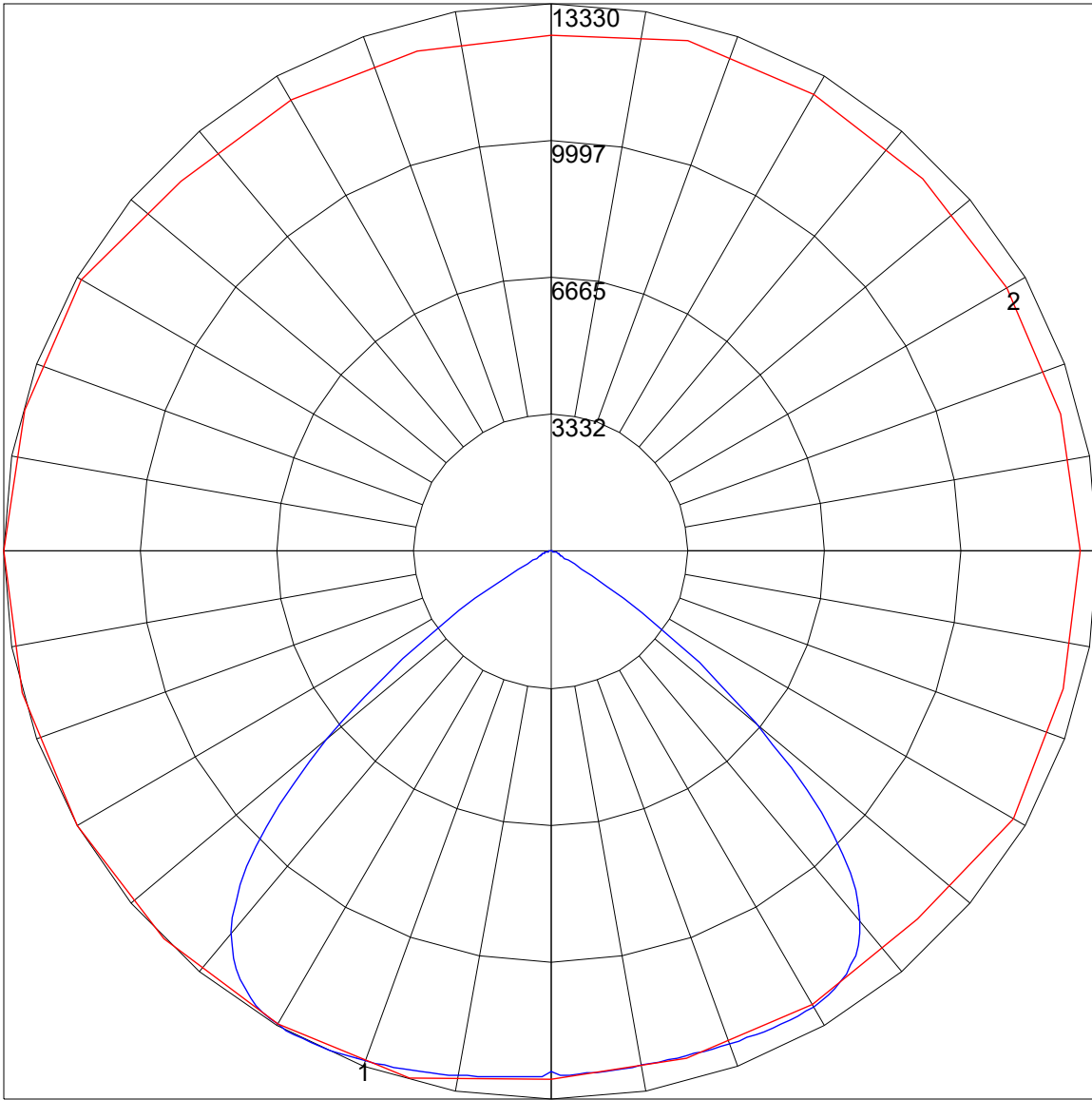
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED200DHV40.IES

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
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	96	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	77	65	58	52	75	65	57	52	63	56	51	61	56	51	60	55	51	49
7	72	60	52	47	70	59	52	46	57	51	46	56	50	46	55	50	45	44
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

POLAR GRAPH



Maximum Candela = 13329.58 Located At Horizontal Angle = 210, Vertical Angle = 28
1 - Vertical Plane Through Horizontal Angles (210 - 30) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (28) (Through Max. Cd.)