



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HBRMSR-LED175DHV50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] Dongguan New Testing Centre Co., Ltd

[TESTDATE] 20 May 2019

[ISSUEDATE] 2019-05-20 09:35:57

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000_V2 SYSTEM

[MANUFAC] Mobern Lighting Co.

[LUMCAT] HBRMSR-LED175DHV50

[MORE] MHB04

[LUMINAIRE] LED

[BALLAST] 347-480Vac,50/60Hz

[OTHER]

[OTHER] Gamma(deg) Fz(lm) Ft(lm) %Lum %Lamp

[OTHER] 0- 10 985.42 985.42 3.93 3.93

[OTHER] 10- 20 2973.17 3958.59 15.77 15.77

[OTHER] 20- 30 4956.29 8914.88 35.52 35.52

[OTHER] 30- 40 6567.15 15482.02 61.68 61.68

[OTHER] 40- 50 6203.89 21685.91 86.40 86.40

[OTHER] 50- 60 2685.45 24371.36 97.10 97.10

[OTHER] 60- 70 434.23 24805.59 98.82 98.82

[OTHER] 70- 80 212.36 25017.95 99.67 99.67

[OTHER] 80- 90 63.65 25081.59 99.92 99.92

[OTHER] 90-100 0.25 25081.84 99.93 99.93

[OTHER] 100-110 0.73 25082.58 99.93 99.93

[OTHER] 110-120 1.50 25084.08 99.93 99.93

[OTHER] 120-130 2.51 25086.59 99.94 99.94

[OTHER] 130-140 3.43 25090.02 99.96 99.96

[OTHER] 140-150 3.81 25093.83 99.97 99.97

[OTHER] 150-160 3.49 25097.31 99.99 99.99

[OTHER] 160-170 2.37 25099.69 100.00 100.00

[OTHER] 170-180 0.83 25100.52 100.00 100.00

[OTHER]

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CHARACTERISTICS

Lumens Per Lamp	25101 (1 lamp)
Total Lamp Lumens	25101
Luminaire Lumens	25101
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	174.234
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.54
Spacing Criterion (90-270)	1.54
Spacing Criterion (Diagonal)	1.48
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	120675	120518	121103
55	51920	50401	50538
65	8769	8483	8615
75	7758	7671	7735
85	6842	6174	4971

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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	10266.12	10266.12	10266.12	10266.12	10266.12	10266.12	10266.12	10266.12	10266.12	10266.12
1	10267.87	10267.95	10264.80	10257.38	10256.72	10253.47	10256.03	10254.31	10252.66	10255.47
2	10265.16	10271.74	10260.66	10255.92	10249.48	10248.19	10244.97	10243.66	10249.50	10250.96
3	10293.05	10275.05	10261.63	10253.15	10246.64	10241.24	10237.05	10240.31	10242.10	10248.07
4	10306.95	10281.64	10263.71	10251.45	10241.40	10235.60	10229.72	10233.50	10236.15	10240.53
5	10314.84	10286.92	10272.39	10251.85	10238.56	10232.76	10226.84	10228.84	10232.65	10238.28
6	10323.16	10298.68	10275.59	10254.28	10238.21	10229.31	10220.26	10223.18	10229.19	10243.67
7	10337.66	10311.51	10283.01	10256.74	10240.60	10227.23	10215.34	10221.76	10226.62	10241.45
8	10351.65	10320.56	10288.24	10257.87	10240.32	10227.13	10211.95	10218.27	10221.37	10244.18
9	10368.32	10337.64	10295.10	10264.23	10240.99	10224.09	10214.00	10218.23	10229.34	10247.62
10	10384.51	10349.64	10308.55	10270.89	10243.73	10225.19	10212.71	10218.92	10233.82	10250.48
11	10408.06	10360.80	10318.11	10279.40	10245.86	10228.70	10215.86	10228.38	10237.13	10258.35
12	10428.36	10377.18	10329.74	10288.99	10252.83	10232.36	10221.80	10230.09	10244.35	10265.50
13	10452.06	10396.11	10343.94	10302.15	10262.19	10242.63	10225.73	10235.32	10251.64	10279.82
14	10470.31	10414.89	10363.55	10312.65	10273.37	10251.00	10232.17	10247.68	10254.49	10287.53
15	10496.73	10437.55	10378.77	10328.37	10287.84	10264.88	10243.36	10255.88	10266.36	10303.38
16	10526.67	10463.82	10401.14	10347.19	10300.52	10279.16	10255.75	10271.25	10279.29	10320.19
17	10549.86	10486.03	10421.10	10365.42	10317.58	10288.51	10268.01	10282.06	10298.51	10334.07
18	10575.74	10508.54	10445.06	10385.75	10333.85	10303.38	10286.14	10300.76	10315.64	10351.70
19	10606.92	10533.93	10466.34	10406.14	10354.19	10320.50	10302.20	10315.89	10333.80	10371.34
20	10631.77	10562.59	10488.05	10429.30	10373.50	10338.99	10320.44	10333.28	10352.07	10392.85
21	10656.45	10588.05	10512.83	10451.59	10395.82	10361.20	10338.66	10355.58	10373.69	10413.21
22	10683.10	10609.78	10539.09	10472.53	10421.41	10383.63	10361.90	10373.05	10388.96	10432.18
23	10709.93	10635.89	10563.26	10498.87	10441.80	10409.87	10382.28	10395.77	10408.41	10456.62
24	10734.61	10657.62	10590.91	10520.12	10463.11	10427.36	10401.43	10418.08	10430.42	10480.37
25	10751.25	10679.22	10607.22	10545.59	10487.57	10448.54	10426.35	10440.13	10448.95	10502.52
26	10767.20	10699.70	10629.94	10568.70	10507.39	10470.61	10451.45	10456.73	10472.57	10523.63
27	10782.33	10713.35	10645.60	10587.96	10526.39	10490.99	10470.37	10473.02	10490.15	10542.50
28	10786.03	10723.39	10655.12	10598.74	10540.81	10504.85	10485.51	10491.66	10505.04	10556.24
29	10791.37	10724.72	10661.68	10609.31	10551.33	10519.68	10500.53	10504.16	10517.47	10565.61
30	10784.81	10723.34	10662.77	10611.30	10557.73	10524.26	10504.65	10505.93	10521.96	10569.66
31	10766.59	10710.18	10652.62	10606.19	10552.84	10524.24	10501.11	10503.91	10522.79	10565.90
32	10739.73	10688.78	10631.60	10591.66	10541.34	10512.90	10492.69	10491.43	10514.23	10554.30
33	10702.88	10653.72	10599.30	10564.44	10517.73	10493.89	10471.72	10469.28	10492.03	10534.52
34	10644.14	10603.95	10558.12	10522.80	10482.20	10459.04	10437.37	10430.66	10455.50	10497.14
35	10569.15	10536.93	10497.72	10468.49	10424.85	10404.36	10388.28	10379.99	10408.40	10448.52
36	10475.86	10447.64	10407.81	10388.48	10351.31	10330.63	10318.29	10305.18	10341.44	10375.11
37	10355.95	10337.73	10296.25	10284.98	10249.34	10237.00	10223.71	10208.99	10248.39	10278.91
38	10212.72	10193.75	10163.85	10156.07	10123.06	10112.43	10111.49	10082.63	10128.38	10153.31
39	10034.34	10024.42	9995.50	9996.72	9965.38	9964.34	9962.56	9931.00	9978.12	9996.18
40	9829.23	9821.10	9803.66	9799.64	9773.08	9778.84	9781.49	9741.37	9786.51	9807.67
41	9585.73	9591.11	9569.92	9575.68	9542.07	9560.45	9570.92	9520.13	9558.13	9582.65
42	9306.42	9312.83	9297.72	9297.08	9272.27	9292.97	9313.36	9250.66	9297.43	9310.42
43	8982.00	9000.72	8978.57	8983.77	8955.01	8979.69	9000.30	8929.08	8976.28	8989.76
44	8617.25	8635.05	8618.83	8614.67	8584.07	8618.73	8654.26	8556.38	8612.03	8619.34
45	8213.23	8227.40	8210.87	8202.53	8170.43	8206.16	8242.32	8135.23	8197.62	8200.22
46	7757.06	7776.11	7754.17	7743.33	7714.72	7745.66	7787.42	7662.33	7731.12	7738.62
47	7259.48	7269.71	7259.27	7241.33	7210.59	7233.83	7288.40	7151.11	7226.57	7231.64
48	6728.43	6747.16	6724.95	6714.94	6668.99	6692.80	6751.96	6609.88	6686.95	6690.12
49	6180.50	6182.13	6159.81	6151.40	6103.04	6127.30	6191.66	6048.98	6132.25	6151.41
50	5604.56	5614.25	5568.05	5581.66	5529.61	5546.80	5610.54	5470.94	5568.92	5586.28
51	5036.73	5034.76	4994.57	5001.94	4958.64	4959.76	5027.67	4904.05	4999.28	5020.24
52	4470.04	4458.33	4406.93	4431.31	4380.55	4389.14	4444.84	4334.23	4444.59	4461.84
53	3919.99	3897.64	3839.45	3860.94	3817.25	3827.75	3876.78	3781.06	3897.63	3913.81

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54	3382.51	3354.78	3288.98	3309.16	3267.16	3282.87	3328.38	3238.29	3358.11	3374.36
55	2866.39	2840.87	2766.40	2782.51	2733.15	2744.85	2790.10	2702.77	2822.83	2842.43
56	2361.32	2389.88	2271.95	2329.20	2220.68	2294.64	2334.88	2199.15	2361.54	2336.47
57	1900.47	1938.89	1825.34	1875.88	1761.68	1844.44	1879.67	1734.19	1900.25	1861.05
58	1496.47	1487.95	1427.91	1423.92	1364.09	1394.57	1427.55	1333.73	1439.62	1441.89
59	1158.70	1144.18	1091.66	1089.78	1039.18	1055.95	1073.43	1000.65	1091.64	1096.57
60	890.20	865.78	887.93	819.95	851.69	792.56	806.83	760.50	829.12	903.93
61	707.02	654.85	687.45	622.20	667.52	607.25	619.92	646.98	646.91	714.59
62	524.45	513.47	486.97	491.59	483.36	487.61	500.89	535.07	527.26	525.25
63	436.74	426.34	410.09	414.54	413.21	415.95	429.18	423.16	450.38	445.08
64	388.10	376.97	368.67	372.49	373.54	374.45	383.15	377.26	398.74	393.35
65	356.69	347.82	341.74	345.07	346.36	345.69	350.44	346.19	362.46	355.14
66	332.70	325.92	320.83	323.85	324.29	323.39	326.04	323.15	335.87	328.77
67	312.60	307.96	302.63	305.47	305.51	305.00	306.01	304.21	314.46	308.50
68	295.14	291.98	286.74	289.68	289.23	289.42	289.87	287.80	296.55	291.48
69	278.88	276.92	272.49	274.83	274.38	275.51	275.15	272.82	280.28	276.23
70	264.52	263.50	259.18	260.99	260.52	262.24	261.68	258.97	265.72	262.68
71	249.99	250.33	246.22	247.65	246.91	249.28	248.86	245.22	251.78	249.78
72	236.25	237.20	233.31	233.78	233.03	235.59	236.04	231.40	237.74	237.04
73	222.05	222.95	220.36	219.46	219.38	221.03	221.59	217.86	223.24	224.10
74	207.76	208.70	206.20	205.15	205.21	206.48	207.15	203.73	208.74	210.27
75	193.27	194.45	191.85	191.10	190.42	191.92	192.70	189.62	194.24	196.47
76	178.70	180.21	176.81	177.58	176.38	178.16	178.04	175.71	179.82	182.58
77	165.23	166.26	162.64	163.58	161.86	163.86	163.42	161.70	165.70	168.46
78	151.01	152.30	148.67	149.86	147.76	149.45	148.11	147.21	151.70	154.57
79	137.90	138.99	135.20	136.71	133.91	135.15	133.68	133.03	138.11	140.74
80	124.56	125.86	122.11	123.25	119.99	120.61	119.45	118.32	124.16	127.03
81	111.64	112.54	109.20	110.02	106.16	106.40	105.27	103.98	110.25	113.38
82	98.87	99.59	96.36	96.85	91.56	92.09	91.15	88.48	96.08	99.96
83	85.05	86.48	82.66	83.37	75.82	77.66	76.03	72.95	80.74	84.74
84	71.23	73.35	68.96	68.14	60.05	60.95	59.04	57.41	64.38	69.48
85	57.40	59.61	55.25	51.79	42.83	45.85	41.70	39.57	47.45	54.23
86	44.04	46.33	39.85	35.88	25.91	30.75	24.35	22.32	32.34	36.90
87	30.11	30.81	23.75	19.97	10.21	15.65	7.18	14.83	17.23	17.75
88	10.99	15.30	5.03	4.18	5.07	0.78	0.93	7.62	2.47	11.86
89	5.38	0.17	2.55	0.09	0.21	0.09	0.25	0.41	0.29	6.04
90	0.16	0.05	0.12	0.05	0.05	0.05	0.19	0.20	0.20	0.23
91	0.06	0.05	0.06	0.05	0.06	0.05	0.21	0.22	0.21	0.21
92	0.06	0.06	0.06	0.06	0.06	0.06	0.23	0.24	0.23	0.23
93	0.07	0.07	0.07	0.07	0.07	0.07	0.26	0.26	0.26	0.26
94	0.08	0.08	0.08	0.08	0.08	0.08	0.29	0.30	0.29	0.29
95	0.09	0.09	0.09	0.09	0.09	0.09	0.33	0.34	0.32	0.33
96	0.10	0.10	0.11	0.11	0.11	0.10	0.38	0.38	0.37	0.38
97	0.12	0.12	0.12	0.13	0.13	0.12	0.43	0.44	0.43	0.44
98	0.13	0.14	0.14	0.14	0.14	0.14	0.49	0.50	0.48	0.50
99	0.15	0.16	0.16	0.16	0.17	0.16	0.55	0.56	0.55	0.56
100	0.18	0.18	0.19	0.19	0.19	0.18	0.63	0.64	0.62	0.63
101	0.21	0.21	0.22	0.22	0.22	0.21	0.71	0.72	0.70	0.71
102	0.24	0.24	0.25	0.25	0.25	0.24	0.80	0.81	0.79	0.80
103	0.27	0.27	0.28	0.28	0.28	0.27	0.90	0.91	0.88	0.90
104	0.30	0.30	0.31	0.31	0.32	0.31	1.00	1.01	0.99	1.00
105	0.34	0.34	0.35	0.35	0.35	0.34	1.10	1.11	1.09	1.10
106	0.38	0.38	0.39	0.39	0.40	0.38	1.19	1.20	1.18	1.19
107	0.43	0.43	0.44	0.44	0.44	0.42	1.27	1.28	1.26	1.28
108	0.48	0.48	0.49	0.49	0.49	0.47	1.36	1.36	1.35	1.36
109	0.54	0.54	0.55	0.55	0.55	0.53	1.44	1.45	1.44	1.46

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110	0.61	0.60	0.62	0.61	0.61	0.59	1.52	1.53	1.53	1.55
111	0.68	0.67	0.69	0.68	0.68	0.65	1.60	1.61	1.62	1.65
112	0.75	0.75	0.76	0.75	0.74	0.72	1.68	1.70	1.71	1.75
113	0.84	0.84	0.84	0.83	0.82	0.79	1.76	1.79	1.81	1.86
114	0.92	0.92	0.93	0.91	0.89	0.87	1.86	1.89	1.91	1.96
115	1.02	1.02	1.02	1.00	0.98	0.95	1.95	1.99	2.01	2.08
116	1.11	1.11	1.12	1.09	1.07	1.04	2.05	2.10	2.12	2.20
117	1.21	1.22	1.22	1.19	1.17	1.13	2.18	2.25	2.27	2.34
118	1.31	1.32	1.33	1.29	1.27	1.24	2.39	2.42	2.42	2.48
119	1.42	1.43	1.44	1.40	1.38	1.34	2.53	2.56	2.57	2.64
120	1.53	1.55	1.55	1.51	1.50	1.44	2.66	2.71	2.71	2.79
121	1.64	1.67	1.66	1.62	1.61	1.55	2.80	2.86	2.86	2.95
122	1.76	1.78	1.77	1.73	1.73	1.66	2.94	3.00	3.00	3.11
123	1.87	1.89	1.89	1.85	1.85	1.77	3.09	3.16	3.15	3.28
124	1.99	2.01	2.00	1.96	1.97	1.89	3.25	3.34	3.32	3.45
125	2.11	2.12	2.11	2.07	2.09	2.00	3.42	3.51	3.49	3.64
126	2.23	2.24	2.23	2.19	2.21	2.11	3.59	3.67	3.68	3.83
127	2.35	2.36	2.35	2.30	2.34	2.24	3.77	3.86	3.87	4.02
128	2.47	2.48	2.47	2.42	2.46	2.39	3.96	4.06	4.09	4.22
129	2.60	2.61	2.61	2.54	2.60	2.54	4.15	4.28	4.31	4.42
130	2.74	2.74	2.75	2.67	2.74	2.70	4.36	4.49	4.54	4.64
131	2.88	2.89	2.88	2.79	2.86	2.85	4.58	4.70	4.77	4.87
132	3.02	3.04	3.01	2.93	2.99	3.01	4.77	4.90	4.98	5.09
133	3.18	3.20	3.15	3.07	3.13	3.18	4.94	5.10	5.19	5.32
134	3.33	3.34	3.29	3.23	3.26	3.33	5.10	5.29	5.38	5.53
135	3.45	3.48	3.41	3.39	3.38	3.48	5.27	5.47	5.57	5.73
136	3.57	3.60	3.54	3.55	3.51	3.64	5.45	5.64	5.75	5.92
137	3.72	3.73	3.68	3.72	3.66	3.80	5.61	5.83	5.92	6.12
138	3.88	3.87	3.82	3.89	3.80	3.96	5.77	6.01	6.10	6.32
139	4.03	4.01	3.97	4.04	3.95	4.12	5.97	6.18	6.27	6.50
140	4.17	4.15	4.13	4.18	4.10	4.27	6.13	6.34	6.42	6.68
141	4.35	4.30	4.29	4.32	4.25	4.42	6.30	6.53	6.61	6.86
142	4.50	4.46	4.48	4.46	4.41	4.57	6.49	6.73	6.80	7.04
143	4.65	4.64	4.67	4.60	4.57	4.71	6.67	6.93	7.01	7.21
144	4.78	4.81	4.83	4.73	4.73	4.87	6.86	7.16	7.20	7.39
145	4.94	4.98	4.96	4.89	4.87	5.01	7.11	7.38	7.39	7.58
146	5.08	5.13	5.07	5.05	5.02	5.15	7.32	7.60	7.56	7.78
147	5.18	5.24	5.17	5.20	5.16	5.29	7.53	7.78	7.73	7.99
148	5.24	5.33	5.25	5.34	5.29	5.42	7.73	7.94	7.90	8.19
149	5.29	5.40	5.35	5.48	5.44	5.53	7.91	8.10	8.07	8.40
150	5.35	5.47	5.48	5.62	5.61	5.65	8.09	8.25	8.27	8.60
151	5.42	5.57	5.62	5.76	5.79	5.76	8.26	8.40	8.49	8.76
152	5.51	5.70	5.76	5.90	6.00	5.87	8.44	8.55	8.72	8.91
153	5.60	5.81	5.89	6.03	6.19	5.97	8.59	8.69	8.98	9.07
154	5.66	5.92	6.01	6.13	6.37	6.09	8.74	8.84	9.20	9.22
155	5.67	6.01	6.12	6.24	6.53	6.24	8.91	9.04	9.41	9.37
156	5.68	6.10	6.22	6.35	6.64	6.41	9.10	9.27	9.58	9.51
157	5.71	6.19	6.32	6.48	6.73	6.58	9.32	9.47	9.71	9.67
158	5.74	6.29	6.43	6.62	6.80	6.72	9.54	9.66	9.83	9.84
159	5.79	6.37	6.51	6.74	6.84	6.79	9.74	9.79	9.94	9.99
160	5.84	6.43	6.61	6.85	6.87	6.84	9.86	9.87	10.02	10.13
161	5.87	6.49	6.69	6.93	6.89	6.88	9.89	9.91	10.05	10.21
162	5.93	6.55	6.75	6.98	6.90	6.91	9.88	9.91	10.06	10.25
163	6.07	6.64	6.87	7.05	6.94	6.97	9.87	9.91	10.06	10.27
164	6.26	6.76	6.99	7.13	7.00	7.07	9.86	9.94	10.08	10.31
165	6.49	6.89	7.13	7.22	7.12	7.18	9.88	10.00	10.13	10.35

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED175DHV50.IES

CANDELA TABULATION - (Cont.)

166	6.70	7.05	7.29	7.35	7.28	7.33	9.85	10.05	10.19	10.38
167	6.84	7.20	7.39	7.42	7.40	7.46	9.85	10.07	10.22	10.39
168	6.95	7.30	7.47	7.46	7.48	7.56	9.85	10.05	10.22	10.33
169	7.07	7.29	7.49	7.49	7.53	7.62	9.80	9.97	10.14	10.20
170	7.14	7.17	7.42	7.46	7.51	7.60	9.76	9.90	10.04	10.12
171	7.16	7.06	7.39	7.43	7.47	7.57	9.77	9.89	10.02	10.07
172	7.22	7.16	7.49	7.49	7.54	7.64	9.78	9.89	10.01	10.00
173	7.33	7.35	7.65	7.64	7.70	7.82	9.71	9.84	9.94	9.89
174	7.55	7.62	7.89	7.96	8.00	8.15	9.70	9.84	9.90	9.83
175	7.78	7.93	8.22	8.29	8.36	8.51	9.67	9.80	9.87	9.77
176	7.98	8.13	8.44	8.43	8.58	8.74	9.56	9.71	9.77	9.67
177	8.20	8.25	8.58	8.56	8.70	8.86	9.46	9.62	9.68	9.60
178	8.35	8.29	8.61	8.63	8.71	8.89	9.27	9.44	9.49	9.43
179	8.58	8.37	8.56	8.69	8.73	8.93	9.18	9.36	9.40	9.35
180	8.82	8.82	8.82	8.82	8.82	8.82	8.82	8.82	8.82	8.82

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	10266.12	10266.12	10266.12	10266.12	10266.12	10266.12	10266.12	10266.12	10266.12	10266.12
1	10259.17	10261.45	10264.10	10269.21	10274.36	10275.40	10275.11	10282.07	10282.65	10283.69
2	10254.03	10259.69	10270.49	10275.15	10281.68	10290.47	10291.64	10299.20	10298.71	10298.31
3	10252.99	10261.74	10275.16	10283.93	10293.27	10303.74	10313.79	10317.91	10321.27	10317.89
4	10253.40	10266.52	10282.65	10298.38	10309.02	10324.14	10335.87	10340.56	10344.88	10344.68
5	10258.57	10271.41	10294.24	10313.28	10330.10	10351.21	10357.43	10368.09	10375.60	10368.70
6	10257.95	10277.33	10304.01	10327.71	10350.57	10368.75	10382.68	10393.84	10401.40	10394.03
7	10262.95	10286.41	10317.58	10342.27	10370.66	10392.68	10410.80	10423.97	10431.23	10424.08
8	10273.37	10297.67	10331.87	10364.19	10390.39	10417.36	10436.17	10453.72	10461.33	10454.56
9	10278.00	10306.46	10345.96	10379.41	10413.60	10443.55	10465.42	10485.76	10491.34	10486.15
10	10282.56	10318.20	10362.13	10398.68	10438.83	10471.19	10494.97	10515.12	10523.98	10524.36
11	10292.34	10332.12	10376.67	10421.90	10461.68	10497.80	10524.89	10547.41	10556.02	10554.02
12	10308.61	10340.06	10398.70	10442.04	10484.76	10527.08	10556.37	10581.25	10590.97	10587.52
13	10318.26	10361.70	10414.26	10465.07	10511.78	10553.40	10588.56	10611.64	10620.62	10622.75
14	10329.66	10377.62	10435.04	10486.34	10539.57	10582.41	10618.10	10642.65	10657.12	10658.16
15	10348.58	10393.51	10454.84	10512.03	10566.19	10612.76	10650.65	10678.42	10690.42	10692.12
16	10364.76	10415.02	10480.21	10537.96	10594.38	10647.10	10686.21	10715.48	10729.52	10720.99
17	10380.15	10433.26	10500.88	10566.27	10624.59	10678.96	10719.34	10748.32	10760.88	10754.68
18	10398.57	10457.18	10525.55	10592.07	10654.53	10708.38	10751.28	10780.15	10792.89	10785.28
19	10420.65	10478.09	10550.02	10624.51	10684.28	10742.57	10784.61	10813.02	10827.46	10821.61
20	10440.96	10500.32	10573.09	10649.84	10713.31	10769.10	10815.17	10846.33	10853.62	10856.47
21	10460.22	10521.47	10605.13	10677.81	10740.78	10797.37	10847.95	10876.54	10886.88	10886.43
22	10486.91	10550.99	10630.53	10703.73	10769.29	10828.40	10880.82	10912.19	10912.69	10910.02
23	10509.93	10575.95	10657.08	10728.90	10792.83	10852.70	10905.92	10935.60	10939.34	10935.85
24	10532.65	10599.41	10677.58	10752.50	10818.33	10873.64	10929.32	10963.34	10955.32	10959.94
25	10553.36	10624.51	10698.09	10774.58	10841.20	10898.48	10947.49	10979.30	10977.85	10982.03
26	10575.72	10642.51	10718.92	10794.55	10858.21	10916.14	10962.29	10989.82	10987.95	10997.12
27	10593.78	10651.98	10731.87	10806.79	10872.70	10925.58	10972.68	10997.32	10995.32	11003.00
28	10606.58	10664.13	10740.72	10812.34	10877.07	10929.13	10972.67	10997.35	10995.11	11003.42
29	10617.63	10668.68	10749.01	10813.73	10872.01	10925.41	10971.68	10991.13	10992.00	10993.29
30	10619.95	10672.26	10747.57	10808.24	10863.55	10915.86	10958.66	10976.03	10965.90	10979.58
31	10614.25	10664.63	10726.69	10796.64	10848.08	10897.60	10936.05	10948.34	10943.21	10948.16
32	10599.90	10648.16	10709.42	10768.00	10819.61	10861.16	10900.06	10913.32	10905.78	10913.15
33	10577.19	10614.71	10683.13	10732.84	10784.22	10820.69	10848.42	10861.78	10851.40	10858.33
34	10531.39	10571.63	10634.43	10680.63	10725.13	10759.02	10786.98	10794.57	10776.60	10788.41
35	10481.67	10511.97	10571.22	10608.45	10654.98	10677.70	10708.91	10708.84	10684.11	10699.62
36	10404.80	10437.44	10486.28	10519.63	10559.86	10579.03	10608.39	10601.53	10577.28	10589.86

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED175DHV50.IES

CANDELA TABULATION - (Cont.)

37	10310.06	10333.35	10379.95	10406.71	10442.98	10457.64	10482.80	10472.29	10435.79	10459.36
38	10187.53	10202.16	10252.69	10268.18	10303.65	10306.90	10323.05	10311.74	10274.45	10299.79
39	10032.03	10053.63	10096.89	10107.55	10134.12	10133.13	10145.69	10126.99	10083.12	10109.60
40	9846.42	9864.25	9907.38	9910.76	9933.73	9926.58	9928.60	9906.78	9865.92	9888.97
41	9616.38	9642.00	9686.30	9685.05	9698.79	9687.23	9683.66	9662.25	9604.31	9642.42
42	9355.60	9372.21	9420.74	9409.88	9423.92	9405.77	9400.16	9367.85	9310.92	9349.60
43	9046.47	9070.47	9106.53	9099.20	9113.42	9085.85	9074.99	9041.66	8973.99	9016.83
44	8693.34	8698.68	8742.78	8746.19	8758.71	8726.12	8717.38	8668.29	8593.50	8652.50
45	8283.18	8292.34	8338.75	8344.31	8362.95	8317.44	8307.60	8264.25	8189.04	8237.64
46	7832.68	7834.96	7887.05	7904.18	7926.88	7879.58	7872.88	7828.18	7743.00	7792.00
47	7321.98	7337.08	7399.85	7414.56	7447.44	7393.72	7387.71	7349.10	7272.83	7312.09
48	6787.18	6807.13	6866.11	6890.68	6932.41	6888.07	6882.16	6847.47	6754.36	6805.53
49	6235.06	6257.28	6321.02	6352.29	6394.59	6351.81	6359.59	6314.31	6215.97	6275.05
50	5670.30	5691.25	5756.89	5781.55	5830.88	5808.37	5806.91	5775.26	5678.34	5733.88
51	5089.58	5109.58	5173.51	5220.07	5266.12	5245.82	5256.93	5222.80	5119.17	5182.42
52	4518.27	4543.72	4603.38	4641.55	4694.23	4694.73	4701.72	4667.07	4574.83	4637.23
53	3961.54	3989.41	4034.06	4071.57	4139.67	4142.90	4157.61	4124.16	4025.12	4095.62
54	3418.19	3447.95	3496.82	3522.47	3581.42	3602.53	3617.91	3594.68	3510.26	3578.38
55	2895.44	2924.22	2973.02	2998.53	3060.46	3070.65	3089.66	3081.67	3002.06	3073.88
56	2440.34	2418.88	2514.26	2496.17	2558.45	2560.42	2593.27	2598.10	2535.10	2597.09
57	1985.23	1951.23	2055.50	2028.55	2150.17	2092.57	2182.97	2136.52	2098.64	2196.11
58	1532.84	1531.71	1599.59	1615.63	1741.90	1667.03	1772.67	1720.89	1697.74	1795.12
59	1167.59	1185.39	1244.16	1266.21	1335.59	1319.99	1363.09	1360.80	1343.32	1395.50
60	882.91	913.42	967.71	986.12	1043.29	1033.52	1070.34	1061.51	1042.28	1089.37
61	683.19	741.63	758.38	826.88	812.93	861.34	836.52	878.63	862.55	844.01
62	549.95	570.86	611.29	669.52	647.99	692.90	660.67	699.24	685.06	657.13
63	462.64	476.93	510.20	512.16	530.57	524.46	534.16	519.86	507.57	526.70
64	405.61	416.10	441.55	437.11	449.48	439.92	446.22	431.50	426.01	440.85
65	365.58	373.58	391.86	385.21	392.20	384.49	392.38	378.12	375.03	385.70
66	336.24	343.52	357.44	349.04	353.67	350.68	357.84	345.67	343.75	352.76
67	315.13	321.93	331.81	325.41	327.83	327.77	333.47	323.86	322.11	331.02
68	298.19	304.74	311.79	307.06	308.10	309.41	314.43	306.26	304.90	313.76
69	283.29	290.40	294.32	291.89	292.02	293.56	297.87	290.91	290.70	299.41
70	270.45	276.46	278.69	277.88	278.12	279.37	282.90	277.06	277.18	286.12
71	257.35	262.62	264.59	264.45	265.25	265.62	268.69	263.79	264.42	272.88
72	245.17	249.13	251.60	251.88	252.51	252.87	255.04	250.55	251.80	259.61
73	230.74	234.44	236.82	237.50	240.03	240.31	241.55	236.94	238.12	245.56
74	216.31	219.50	221.28	223.49	225.46	226.71	227.04	223.57	224.52	230.11
75	201.85	204.49	205.76	208.02	210.89	211.57	212.52	209.48	209.79	214.65
76	186.06	189.13	191.35	193.37	196.29	196.68	198.00	195.10	194.44	199.21
77	170.69	174.29	176.26	178.65	180.76	182.64	182.84	181.31	179.20	184.43
78	155.90	159.63	161.34	163.96	166.08	168.37	167.77	166.11	163.48	169.52
79	142.30	145.53	147.01	150.41	151.80	154.28	152.97	151.96	148.68	154.76
80	128.80	131.61	133.26	136.81	137.88	139.91	138.19	137.10	133.94	140.35
81	115.60	118.40	119.81	123.50	124.36	125.68	123.96	122.35	119.88	125.62
82	102.49	105.20	106.43	110.14	110.96	111.66	109.86	108.14	105.76	111.47
83	89.04	91.78	93.16	97.04	97.46	97.33	94.93	93.76	90.82	96.79
84	74.82	78.08	78.87	82.62	83.29	80.75	79.27	76.41	73.87	82.53
85	60.91	64.38	65.45	68.18	68.40	64.15	61.20	59.04	56.91	64.38
86	45.50	49.52	50.70	53.73	52.48	47.54	44.12	41.67	38.36	45.91
87	30.36	34.35	33.81	37.23	35.34	27.91	29.38	20.56	19.23	31.00
88	15.22	11.65	16.93	11.61	18.19	10.82	14.63	13.81	12.78	16.09
89	0.53	5.75	0.27	5.84	1.43	5.46	0.37	7.06	6.44	1.51
90	0.19	0.34	0.18	0.30	0.17	0.30	0.18	0.32	0.10	0.08
91	0.20	0.20	0.19	0.19	0.19	0.19	0.18	0.19	0.05	0.05
92	0.22	0.22	0.21	0.21	0.20	0.21	0.20	0.20	0.05	0.05

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED175DHV50.IES

CANDELA TABULATION - (Cont.)

93	0.25	0.24	0.23	0.23	0.23	0.23	0.22	0.22	0.06	0.06
94	0.28	0.27	0.26	0.26	0.25	0.25	0.25	0.25	0.07	0.06
95	0.31	0.31	0.30	0.30	0.29	0.29	0.28	0.28	0.08	0.07
96	0.36	0.35	0.34	0.34	0.33	0.33	0.32	0.32	0.09	0.09
97	0.42	0.40	0.39	0.39	0.38	0.38	0.37	0.37	0.11	0.10
98	0.48	0.46	0.45	0.44	0.43	0.43	0.42	0.42	0.12	0.12
99	0.54	0.53	0.51	0.51	0.49	0.50	0.48	0.49	0.14	0.14
100	0.61	0.60	0.58	0.58	0.56	0.56	0.55	0.55	0.17	0.16
101	0.69	0.68	0.66	0.65	0.64	0.64	0.63	0.63	0.19	0.18
102	0.78	0.77	0.75	0.74	0.73	0.72	0.72	0.71	0.22	0.21
103	0.88	0.87	0.84	0.84	0.82	0.82	0.81	0.81	0.25	0.24
104	0.98	0.97	0.95	0.94	0.92	0.92	0.91	0.91	0.28	0.27
105	1.08	1.07	1.05	1.04	1.02	1.02	1.01	1.01	0.31	0.30
106	1.18	1.16	1.14	1.13	1.11	1.11	1.09	1.09	0.35	0.34
107	1.26	1.25	1.22	1.22	1.20	1.19	1.18	1.17	0.39	0.38
108	1.35	1.34	1.32	1.31	1.29	1.28	1.26	1.26	0.44	0.43
109	1.45	1.44	1.42	1.41	1.39	1.38	1.35	1.34	0.49	0.47
110	1.55	1.54	1.52	1.51	1.49	1.48	1.44	1.43	0.54	0.53
111	1.65	1.65	1.63	1.62	1.59	1.58	1.53	1.51	0.60	0.58
112	1.76	1.76	1.74	1.73	1.70	1.68	1.63	1.60	0.67	0.64
113	1.87	1.88	1.86	1.85	1.82	1.79	1.73	1.70	0.74	0.69
114	1.98	2.00	1.98	1.97	1.93	1.90	1.83	1.79	0.82	0.75
115	2.10	2.12	2.11	2.10	2.06	2.01	1.93	1.89	0.90	0.82
116	2.22	2.24	2.24	2.23	2.18	2.13	2.05	2.00	0.99	0.90
117	2.35	2.37	2.37	2.36	2.31	2.25	2.18	2.15	1.09	1.00
118	2.48	2.51	2.51	2.50	2.45	2.39	2.31	2.31	1.18	1.10
119	2.63	2.66	2.65	2.64	2.59	2.54	2.46	2.45	1.29	1.20
120	2.80	2.80	2.80	2.79	2.74	2.68	2.61	2.60	1.39	1.31
121	2.96	2.94	2.95	2.93	2.90	2.82	2.75	2.74	1.50	1.42
122	3.13	3.12	3.11	3.09	3.06	2.96	2.90	2.88	1.62	1.53
123	3.32	3.32	3.28	3.29	3.21	3.11	3.04	3.02	1.73	1.64
124	3.52	3.53	3.46	3.47	3.37	3.27	3.19	3.17	1.84	1.76
125	3.71	3.75	3.71	3.67	3.54	3.44	3.35	3.33	1.96	1.89
126	3.90	3.96	3.97	3.88	3.73	3.62	3.52	3.49	2.09	2.01
127	4.11	4.17	4.19	4.09	3.92	3.80	3.70	3.65	2.21	2.13
128	4.33	4.40	4.41	4.30	4.13	3.99	3.89	3.82	2.32	2.25
129	4.55	4.62	4.62	4.52	4.33	4.18	4.07	4.01	2.46	2.38
130	4.78	4.84	4.83	4.72	4.54	4.37	4.27	4.22	2.61	2.53
131	5.00	5.06	5.03	4.92	4.73	4.56	4.48	4.44	2.77	2.69
132	5.20	5.28	5.22	5.10	4.91	4.75	4.67	4.63	2.94	2.86
133	5.41	5.49	5.42	5.29	5.08	4.92	4.85	4.80	3.12	3.04
134	5.62	5.68	5.60	5.47	5.23	5.10	5.02	4.96	3.29	3.22
135	5.81	5.84	5.76	5.63	5.39	5.26	5.17	5.12	3.45	3.39
136	6.00	5.98	5.90	5.79	5.56	5.44	5.32	5.30	3.61	3.55
137	6.20	6.16	6.05	5.94	5.74	5.64	5.46	5.47	3.76	3.73
138	6.37	6.34	6.19	6.08	5.92	5.82	5.64	5.65	3.93	3.91
139	6.53	6.49	6.36	6.21	6.10	6.01	5.83	5.86	4.08	4.08
140	6.68	6.66	6.53	6.35	6.25	6.17	6.00	6.05	4.23	4.24
141	6.87	6.83	6.71	6.52	6.44	6.36	6.18	6.23	4.37	4.41
142	7.07	7.00	6.89	6.66	6.64	6.53	6.37	6.42	4.52	4.59
143	7.27	7.18	7.08	6.79	6.84	6.70	6.56	6.63	4.69	4.77
144	7.47	7.36	7.28	6.93	7.01	6.87	6.74	6.82	4.85	4.94
145	7.66	7.57	7.47	7.12	7.17	7.06	6.92	7.06	4.99	5.10
146	7.85	7.76	7.66	7.37	7.35	7.24	7.12	7.27	5.12	5.24
147	8.03	7.95	7.86	7.65	7.51	7.45	7.32	7.43	5.26	5.38
148	8.19	8.13	8.05	7.88	7.67	7.66	7.50	7.60	5.39	5.50

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED175DHV50.IES

CANDELA TABULATION - (Cont.)

149	8.36	8.31	8.22	8.06	7.81	7.88	7.76	7.79	5.51	5.63
150	8.52	8.47	8.30	8.23	7.96	8.10	8.02	7.98	5.65	5.77
151	8.69	8.60	8.37	8.35	8.10	8.29	8.28	8.17	5.81	5.92
152	8.82	8.75	8.52	8.48	8.26	8.43	8.52	8.35	5.96	6.07
153	8.97	8.91	8.64	8.63	8.49	8.57	8.75	8.50	6.08	6.21
154	9.13	9.04	8.74	8.79	8.70	8.71	8.99	8.64	6.18	6.33
155	9.27	9.16	8.82	8.93	8.87	8.86	9.21	8.80	6.27	6.45
156	9.40	9.25	8.89	9.02	9.00	8.97	9.39	9.00	6.38	6.57
157	9.53	9.36	8.96	9.07	9.10	9.07	9.55	9.21	6.51	6.68
158	9.64	9.49	9.05	9.14	9.17	9.17	9.67	9.40	6.63	6.79
159	9.75	9.62	9.15	9.25	9.25	9.30	9.73	9.58	6.74	6.89
160	9.84	9.72	9.24	9.34	9.34	9.45	9.77	9.69	6.80	6.93
161	9.89	9.76	9.29	9.36	9.39	9.57	9.79	9.74	6.82	6.96
162	9.94	9.76	9.32	9.33	9.42	9.59	9.78	9.75	6.83	6.98
163	9.98	9.77	9.39	9.32	9.42	9.58	9.77	9.76	6.88	7.05
164	10.05	9.80	9.49	9.37	9.44	9.59	9.77	9.78	6.97	7.17
165	10.13	9.86	9.57	9.48	9.46	9.59	9.79	9.81	7.08	7.30
166	10.19	9.90	9.63	9.57	9.48	9.64	9.81	9.79	7.23	7.44
167	10.20	9.88	9.63	9.53	9.44	9.59	9.80	9.77	7.38	7.58
168	10.16	9.80	9.62	9.48	9.34	9.54	9.80	9.74	7.49	7.67
169	10.07	9.65	9.53	9.47	9.24	9.53	9.72	9.64	7.59	7.75
170	9.98	9.54	9.45	9.44	9.06	9.41	9.63	9.55	7.58	7.76
171	9.93	9.48	9.37	9.47	9.03	9.42	9.62	9.59	7.56	7.75
172	9.90	9.48	9.23	9.49	9.08	9.46	9.63	9.63	7.65	7.84
173	9.83	9.42	9.06	9.43	9.04	9.42	9.57	9.60	7.84	8.01
174	9.76	9.37	8.97	9.34	9.00	9.40	9.53	9.60	8.19	8.33
175	9.71	9.29	8.98	9.21	8.96	9.36	9.47	9.59	8.58	8.71
176	9.64	9.22	9.01	9.07	8.90	9.24	9.31	9.46	8.79	8.97
177	9.49	9.14	8.98	8.91	8.84	9.13	9.15	9.32	8.96	9.20
178	9.27	9.01	8.84	8.66	8.72	8.95	8.93	9.12	9.02	9.26
179	9.17	8.95	8.83	8.55	8.68	8.83	8.85	9.05	9.05	9.27
180	8.82	8.82	8.82	8.82	8.82	8.82	8.82	8.82	8.82	8.82

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	10266.12	10266.12	10266.12	10266.12	10266.12
1	10279.33	10277.96	10272.17	10272.03	10267.87
2	10299.23	10293.46	10290.90	10277.34	10265.16
3	10322.85	10311.85	10303.54	10292.09	10293.05
4	10344.21	10333.84	10320.77	10306.76	10306.95
5	10364.66	10356.55	10338.57	10325.79	10314.84
6	10391.95	10375.28	10361.81	10344.83	10323.16
7	10421.69	10402.67	10382.96	10360.61	10337.66
8	10448.04	10432.05	10406.34	10378.66	10351.65
9	10477.93	10460.53	10430.13	10399.57	10368.32
10	10510.53	10489.70	10453.72	10420.67	10384.51
11	10537.92	10518.97	10479.80	10443.84	10408.06
12	10570.75	10550.88	10508.65	10470.02	10428.36
13	10603.00	10580.53	10541.24	10495.00	10452.06
14	10635.47	10611.44	10568.77	10521.74	10470.31
15	10670.64	10646.93	10599.44	10547.90	10496.73
16	10700.68	10676.82	10629.22	10577.33	10526.67
17	10737.21	10707.93	10660.89	10605.19	10549.86
18	10771.79	10739.59	10694.58	10635.51	10575.74
19	10798.41	10772.38	10719.42	10664.81	10606.92

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED175DHV50.IES

CANDELA TABULATION - (Cont.)

20	10831.41	10799.64	10748.69	10690.00	10631.77
21	10863.47	10827.61	10778.01	10720.74	10656.45
22	10890.52	10859.39	10805.01	10746.64	10683.10
23	10914.58	10883.34	10830.94	10771.26	10709.93
24	10936.14	10906.32	10856.04	10796.76	10734.61
25	10959.00	10924.66	10875.81	10819.04	10751.25
26	10967.38	10943.51	10892.10	10832.03	10767.20
27	10977.40	10949.82	10902.04	10844.68	10782.33
28	10978.84	10950.17	10906.10	10848.78	10786.03
29	10968.95	10950.27	10901.70	10845.26	10791.37
30	10952.36	10931.33	10891.70	10842.45	10784.81
31	10927.12	10905.39	10870.82	10819.51	10766.59
32	10889.85	10871.20	10837.49	10783.76	10739.73
33	10835.81	10818.68	10787.32	10744.97	10702.88
34	10755.23	10751.06	10723.70	10683.01	10644.14
35	10672.45	10666.75	10643.11	10604.37	10569.15
36	10559.84	10563.99	10538.24	10506.57	10475.86
37	10426.37	10431.47	10413.57	10387.00	10355.95
38	10263.77	10274.59	10261.72	10241.96	10212.72
39	10071.28	10091.43	10081.05	10065.30	10034.34
40	9851.06	9879.16	9870.06	9855.99	9829.23
41	9594.07	9630.40	9627.52	9618.44	9585.73
42	9302.68	9347.15	9344.12	9336.36	9306.42
43	8966.15	9017.53	9021.41	9014.41	8982.00
44	8587.16	8647.25	8659.38	8648.53	8617.25
45	8174.69	8244.02	8254.69	8240.35	8213.23
46	7720.38	7789.14	7805.81	7789.86	7757.06
47	7237.66	7311.21	7323.02	7302.04	7259.48
48	6724.24	6801.88	6804.33	6787.73	6728.43
49	6186.41	6271.16	6264.54	6231.95	6180.50
50	5642.25	5723.91	5696.82	5663.47	5604.56
51	5082.33	5164.84	5130.55	5098.64	5036.73
52	4542.08	4611.40	4564.42	4538.15	4470.04
53	4008.14	4059.15	4007.72	3983.17	3919.99
54	3483.06	3523.82	3470.84	3445.51	3382.51
55	2975.83	3004.84	2955.58	2937.55	2866.39
56	2491.71	2517.36	2462.89	2481.20	2361.32
57	2041.22	2084.41	1997.30	2024.86	1900.47
58	1629.03	1652.80	1587.62	1571.45	1496.47
59	1288.70	1299.34	1231.73	1222.18	1158.70
60	998.73	1002.27	948.28	933.82	890.20
61	831.28	774.52	785.70	715.39	707.02
62	664.04	608.10	625.00	557.01	524.45
63	496.80	491.01	464.31	455.33	436.74
64	424.68	418.49	403.13	396.05	388.10
65	381.86	374.92	365.12	359.51	356.69
66	354.39	348.05	338.87	334.89	332.70
67	333.20	328.60	319.12	315.74	312.60
68	314.71	312.45	301.50	297.94	295.14
69	298.22	297.65	286.31	281.98	278.88
70	282.94	284.14	273.20	267.61	264.52
71	269.12	270.95	260.64	254.23	249.99
72	255.41	256.63	248.15	240.47	236.25
73	240.60	242.29	234.47	226.02	222.05
74	225.19	226.53	220.31	211.57	207.76
75	210.32	210.77	205.14	197.13	193.27

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED175DHV50.IES

CANDELA TABULATION - (Cont.)

76	194.50	195.01	189.42	183.50	178.70
77	179.02	180.12	174.23	169.66	165.23
78	164.02	165.56	159.74	155.98	151.01
79	149.70	151.45	145.53	142.63	137.90
80	135.71	137.84	132.04	129.35	124.56
81	121.58	124.29	118.94	115.91	111.64
82	107.70	110.48	105.90	102.88	98.87
83	93.22	97.23	92.29	89.97	85.05
84	76.28	83.21	78.38	76.93	71.23
85	59.26	67.68	64.47	63.23	57.40
86	42.25	51.98	50.53	49.83	44.04
87	25.88	36.02	35.49	33.81	30.11
88	11.47	20.06	18.90	17.80	10.99
89	5.73	4.26	12.58	1.82	5.38
90	0.24	0.07	6.32	0.05	0.16
91	0.05	0.05	0.07	0.05	0.06
92	0.05	0.05	0.06	0.06	0.06
93	0.06	0.06	0.06	0.06	0.07
94	0.07	0.07	0.07	0.07	0.08
95	0.08	0.08	0.08	0.08	0.09
96	0.09	0.09	0.10	0.09	0.10
97	0.11	0.11	0.11	0.11	0.12
98	0.12	0.13	0.13	0.13	0.13
99	0.14	0.14	0.15	0.15	0.15
100	0.16	0.16	0.17	0.17	0.18
101	0.19	0.19	0.20	0.20	0.21
102	0.22	0.22	0.23	0.23	0.24
103	0.24	0.25	0.26	0.26	0.27
104	0.27	0.28	0.29	0.29	0.30
105	0.31	0.31	0.33	0.33	0.34
106	0.35	0.35	0.37	0.37	0.38
107	0.39	0.39	0.41	0.42	0.43
108	0.44	0.44	0.46	0.47	0.48
109	0.49	0.49	0.52	0.53	0.54
110	0.54	0.55	0.58	0.59	0.61
111	0.60	0.60	0.65	0.66	0.68
112	0.67	0.67	0.71	0.73	0.75
113	0.74	0.74	0.77	0.81	0.84
114	0.82	0.82	0.84	0.90	0.92
115	0.90	0.91	0.92	0.98	1.02
116	0.99	1.00	1.01	1.08	1.11
117	1.08	1.10	1.13	1.17	1.21
118	1.18	1.20	1.24	1.27	1.31
119	1.28	1.30	1.36	1.37	1.42
120	1.39	1.40	1.48	1.48	1.53
121	1.51	1.52	1.60	1.58	1.64
122	1.62	1.63	1.72	1.67	1.76
123	1.73	1.74	1.84	1.76	1.87
124	1.84	1.85	1.97	1.85	1.99
125	1.95	1.97	2.10	1.95	2.11
126	2.08	2.08	2.23	2.08	2.23
127	2.21	2.19	2.37	2.21	2.35
128	2.36	2.31	2.51	2.37	2.47
129	2.50	2.43	2.66	2.53	2.60
130	2.65	2.55	2.80	2.70	2.74
131	2.80	2.66	2.94	2.88	2.88

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED175DHV50.IES

CANDELA TABULATION - (Cont.)

132	2.94	2.79	3.06	3.06	3.02
133	3.07	2.91	3.18	3.23	3.18
134	3.20	3.03	3.29	3.39	3.33
135	3.34	3.15	3.39	3.52	3.45
136	3.50	3.32	3.52	3.65	3.57
137	3.65	3.52	3.67	3.80	3.72
138	3.79	3.74	3.84	3.97	3.88
139	3.93	3.92	4.02	4.14	4.03
140	4.10	4.05	4.19	4.29	4.17
141	4.28	4.17	4.36	4.45	4.35
142	4.45	4.29	4.54	4.60	4.50
143	4.61	4.41	4.71	4.73	4.65
144	4.78	4.57	4.85	4.85	4.78
145	4.96	4.75	4.95	4.97	4.94
146	5.13	4.91	5.03	5.09	5.08
147	5.28	5.06	5.09	5.20	5.18
148	5.42	5.21	5.15	5.32	5.24
149	5.57	5.34	5.21	5.42	5.29
150	5.74	5.45	5.27	5.52	5.35
151	5.92	5.57	5.36	5.60	5.42
152	6.11	5.68	5.47	5.69	5.51
153	6.27	5.77	5.61	5.80	5.60
154	6.40	5.85	5.73	5.90	5.66
155	6.52	5.93	5.85	5.99	5.67
156	6.63	6.03	5.91	6.05	5.68
157	6.71	6.13	5.97	6.07	5.71
158	6.76	6.24	6.03	6.09	5.74
159	6.78	6.36	6.09	6.11	5.79
160	6.80	6.48	6.17	6.12	5.84
161	6.82	6.58	6.26	6.15	5.87
162	6.85	6.67	6.35	6.21	5.93
163	6.97	6.79	6.46	6.34	6.07
164	7.08	6.94	6.59	6.52	6.26
165	7.23	7.11	6.76	6.71	6.49
166	7.38	7.29	6.96	6.90	6.70
167	7.52	7.48	7.10	7.05	6.84
168	7.67	7.59	7.18	7.10	6.95
169	7.76	7.70	7.18	7.14	7.07
170	7.78	7.74	7.16	7.17	7.14
171	7.77	7.74	7.18	7.22	7.16
172	7.85	7.83	7.32	7.33	7.22
173	8.02	8.01	7.50	7.48	7.33
174	8.37	8.34	7.87	7.77	7.55
175	8.70	8.67	8.23	8.07	7.78
176	8.92	8.87	8.46	8.34	7.98
177	9.09	9.04	8.64	8.57	8.20
178	9.18	9.13	8.77	8.69	8.35
179	9.27	9.22	8.91	8.80	8.58
180	8.82	8.82	8.82	8.82	8.82

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED175DHV50.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3958.59	15.80	15.80
0-30	8914.88	35.50	35.50
0-40	15482.04	61.70	61.70
0-60	24371.38	97.10	97.10
0-80	25017.96	99.70	99.70
0-90	25081.62	99.90	99.90
10-90	24096.19	96.00	96.00
20-40	11523.44	45.90	45.90
20-50	17727.34	70.60	70.60
40-70	9323.58	37.10	37.10
60-80	646.59	2.60	2.60
70-80	212.36	0.80	0.80
80-90	63.65	0.30	0.30
90-110	0.99	0.00	0.00
90-120	2.49	0.00	0.00
90-130	4.99	0.00	0.00
90-150	12.24	0.00	0.00
90-180	18.93	0.10	0.10
110-180	17.94	0.10	0.10
0-180	25100.54	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	985.42
10-20	2973.17
20-30	4956.29
30-40	6567.15
40-50	6203.9
50-60	2685.45
60-70	434.23
70-80	212.36
80-90	63.65
90-100	0.25
100-110	0.73
110-120	1.50
120-130	2.51
130-140	3.43
140-150	3.81
150-160	3.49
160-170	2.37
170-180	0.83

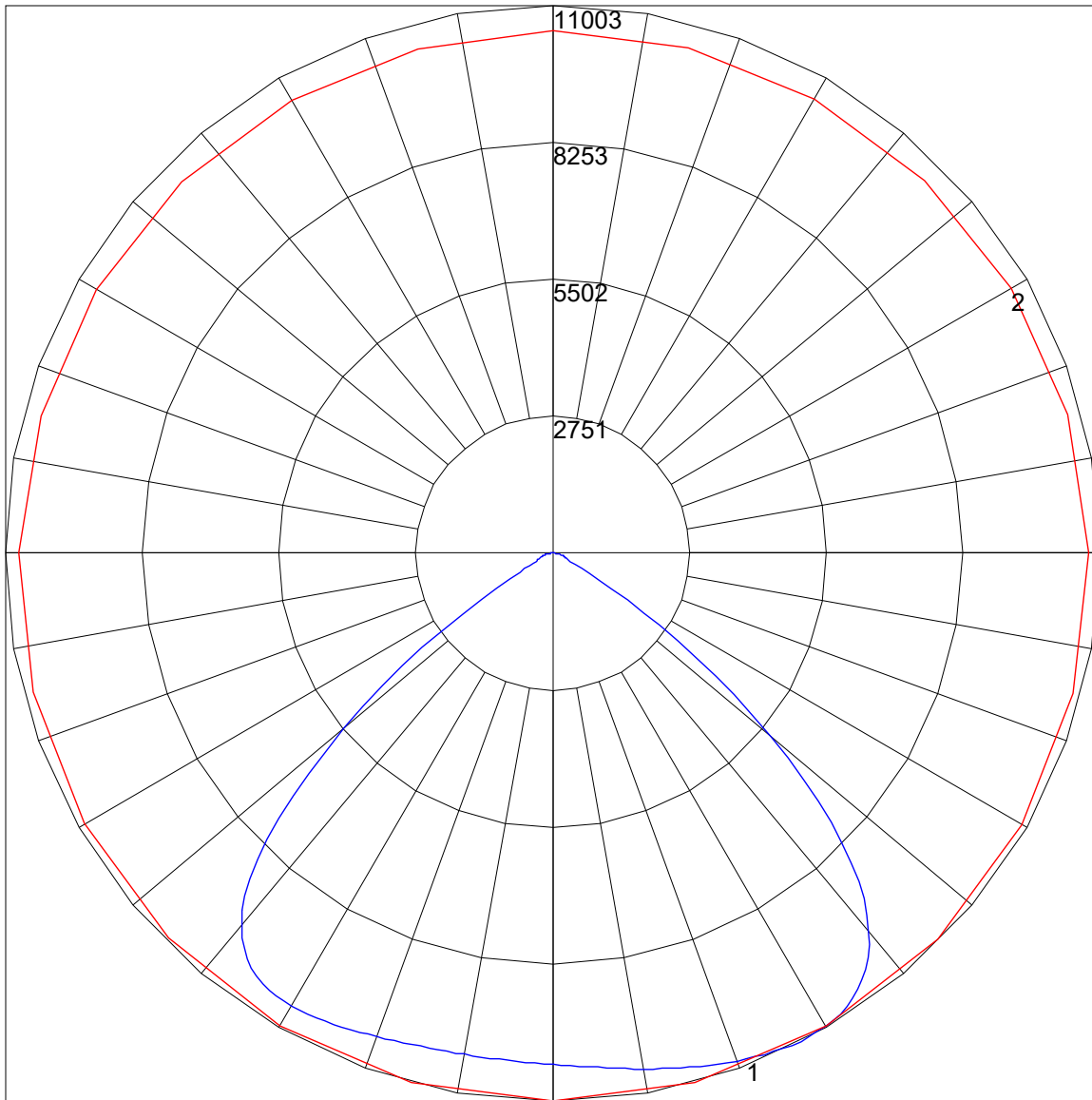
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBRMSR-LED175DHV50.IES

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	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48
7	71	59	52	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	37	33	32

POLAR GRAPH



Maximum Candela = 11003.42 Located At Horizontal Angle = 285, Vertical Angle = 28
1 - Vertical Plane Through Horizontal Angles (285 - 105) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (28) (Through Max. Cd.)