

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HCB02-4-BS35-ND-H-SM-SN-AW-GEN2.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 13142110.02 mod to gen2  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 12/3/2019  
 [MANUFAC] BARTCO LIGHTING INC  
 [LUMCAT] HCB02-4-BS35-ND-H-SM-SN-AW  
 [LUMINAIRE] White rectangular metal housing with diffuse plastic lens  
 [LAMP] White LED array  
 [BALLAST] One (1) Philips Advance XI040C110V054BST1  
 [OTHER] 24.5 C, 120.091 V, 0.298527 A, 35.7269 W, 0.996552 PF, 59.9892  
 [MORE] Hz  
 [OTHER] This test was performed using the calibrated photodetector met  
 [MORE] hod of absolute photometry.

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3504
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	49.11
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.67 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13339	13246	13108
55	12569	12516	12384
65	11683	11675	11567
75	10612	10586	10514
85	9667	9592	9505

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1306.368	1306.368	1306.368	1306.368	1306.368
0.5	1309.680	1302.048	1306.800	1307.952	1307.376
1.0	1309.392	1301.760	1306.512	1307.664	1307.088
1.5	1309.248	1301.472	1305.936	1306.944	1306.512
2.0	1308.672	1301.184	1305.360	1306.368	1305.936
2.5	1308.096	1300.464	1304.496	1305.360	1305.072
3.0	1307.376	1299.744	1303.632	1304.352	1304.208
3.5	1306.800	1299.024	1302.480	1303.056	1303.200
4.0	1305.792	1297.872	1301.184	1301.616	1301.760
4.5	1304.784	1296.864	1299.888	1300.032	1300.032
5.0	1303.632	1295.568	1298.448	1298.160	1298.448
5.5	1302.192	1294.128	1296.720	1296.432	1296.576
6.0	1300.752	1292.544	1294.992	1294.560	1294.416
6.5	1299.312	1290.672	1292.976	1292.400	1292.256
7.0	1297.584	1288.800	1290.960	1290.384	1290.096
7.5	1295.424	1286.784	1288.800	1288.368	1287.648
8.0	1293.408	1284.624	1286.496	1286.208	1285.344
8.5	1290.960	1282.320	1284.192	1283.904	1282.896
9.0	1288.512	1279.728	1281.744	1281.600	1280.304
9.5	1285.776	1276.992	1279.296	1279.008	1277.712
10.0	1283.040	1274.400	1276.560	1276.128	1274.832
10.5	1280.016	1271.376	1273.824	1273.248	1271.952
11.0	1276.992	1268.496	1270.944	1270.368	1269.216
11.5	1273.536	1265.040	1267.920	1267.200	1266.192
12.0	1269.936	1261.728	1264.608	1264.032	1263.024
12.5	1266.192	1258.128	1261.296	1260.576	1259.856
13.0	1262.304	1254.384	1257.696	1256.976	1256.544
13.5	1258.272	1250.496	1253.952	1253.376	1253.088
14.0	1254.384	1246.608	1250.064	1249.488	1249.488
14.5	1249.920	1242.432	1246.032	1245.456	1245.600
15.0	1245.744	1238.112	1241.856	1241.280	1241.424
15.5	1241.136	1233.792	1237.680	1237.248	1237.248
16.0	1236.528	1229.328	1233.072	1232.784	1232.784
16.5	1231.920	1224.720	1228.464	1228.176	1228.032
17.0	1227.168	1219.968	1223.856	1223.568	1223.136
17.5	1222.272	1215.072	1219.104	1218.672	1217.952
18.0	1217.232	1210.176	1213.920	1213.488	1212.768
18.5	1212.192	1205.280	1208.736	1208.160	1207.584
19.0	1206.864	1200.096	1203.552	1202.688	1201.968
19.5	1201.824	1194.912	1197.936	1196.928	1196.064
20.0	1196.208	1189.584	1192.464	1190.880	1190.016
20.5	1190.736	1184.256	1186.560	1184.832	1184.112
21.0	1185.408	1178.784	1180.656	1178.640	1177.920
21.5	1179.360	1173.024	1174.608	1172.304	1171.584
22.0	1173.744	1167.264	1168.416	1165.680	1165.104
22.5	1167.696	1161.360	1161.936	1159.056	1158.480
23.0	1161.648	1155.168	1155.600	1152.144	1151.568
23.5	1155.456	1148.976	1148.832	1145.376	1144.512
24.0	1149.120	1142.496	1142.208	1138.320	1137.168
24.5	1142.496	1135.872	1135.296	1131.408	1130.112
25.0	1136.016	1129.392	1128.384	1124.208	1122.768
25.5	1129.248	1122.624	1121.184	1117.008	1115.424
26.0	1122.192	1115.712	1114.128	1109.952	1107.936
26.5	1115.280	1108.656	1107.072	1102.608	1100.592

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<b>27.0</b>	1107.792	1101.456	1099.584	1095.264	1093.248
<b>27.5</b>	1100.736	1094.256	1092.240	1087.776	1085.760
<b>28.0</b>	1093.392	1086.768	1084.896	1080.144	1078.272
<b>28.5</b>	1085.760	1079.424	1077.120	1072.800	1070.928
<b>29.0</b>	1078.128	1071.648	1069.632	1065.168	1063.440
<b>29.5</b>	1070.352	1064.160	1061.856	1057.680	1055.952
<b>30.0</b>	1062.432	1056.384	1054.080	1050.048	1048.464
<b>30.5</b>	1054.656	1048.608	1046.304	1042.272	1040.976
<b>31.0</b>	1046.592	1040.832	1038.528	1034.640	1033.344
<b>31.5</b>	1038.816	1032.912	1030.608	1026.720	1025.568
<b>32.0</b>	1030.608	1024.848	1022.832	1018.800	1017.504
<b>32.5</b>	1022.400	1016.784	1014.768	1010.736	1009.728
<b>33.0</b>	1014.336	1008.720	1006.848	1002.816	1001.520
<b>33.5</b>	1005.984	1000.368	998.928	994.608	993.312
<b>34.0</b>	997.776	992.304	990.720	986.256	984.672
<b>34.5</b>	989.568	984.096	982.512	977.904	976.320
<b>35.0</b>	981.072	975.744	974.304	969.552	967.824
<b>35.5</b>	972.576	967.536	965.952	961.056	959.328
<b>36.0</b>	964.224	959.184	957.456	952.416	950.688
<b>36.5</b>	955.872	950.832	949.104	943.632	941.904
<b>37.0</b>	947.232	942.336	940.464	934.848	932.976
<b>37.5</b>	938.592	933.840	931.968	926.064	924.192
<b>38.0</b>	930.096	925.344	923.328	917.136	915.408
<b>38.5</b>	921.312	916.704	914.544	908.208	906.480
<b>39.0</b>	912.672	908.064	905.904	899.424	897.552
<b>39.5</b>	903.888	899.280	896.976	890.352	888.624
<b>40.0</b>	895.104	890.640	888.192	881.568	879.552
<b>40.5</b>	886.320	882.000	879.264	872.640	870.768
<b>41.0</b>	877.392	872.928	870.336	863.712	861.552
<b>41.5</b>	868.320	864.144	861.408	854.640	852.768
<b>42.0</b>	859.392	855.216	852.336	845.568	843.984
<b>42.5</b>	850.320	846.288	843.408	836.640	834.768
<b>43.0</b>	841.104	837.360	834.336	827.568	825.696
<b>43.5</b>	832.032	828.432	825.408	818.640	816.912
<b>44.0</b>	822.816	819.360	816.480	809.568	807.984
<b>44.5</b>	813.456	810.144	807.552	800.640	798.912
<b>45.0</b>	804.096	801.216	798.480	791.712	790.128
<b>45.5</b>	794.736	792.144	789.552	782.784	781.056
<b>46.0</b>	785.520	782.784	780.480	773.712	771.984
<b>46.5</b>	776.160	773.856	771.408	764.784	763.200
<b>47.0</b>	766.944	764.496	762.336	755.712	754.128
<b>47.5</b>	757.440	755.136	752.976	746.640	744.912
<b>48.0</b>	748.224	746.064	743.904	737.568	735.840
<b>48.5</b>	738.720	736.704	734.688	728.352	727.056
<b>49.0</b>	729.216	727.488	725.472	719.280	717.840
<b>49.5</b>	719.856	718.272	716.256	710.064	708.912
<b>50.0</b>	710.208	708.912	706.896	700.992	699.840
<b>50.5</b>	700.704	699.408	697.680	691.776	690.624
<b>51.0</b>	691.344	690.192	688.032	682.560	681.408
<b>51.5</b>	681.696	680.688	678.816	673.056	671.904
<b>52.0</b>	672.192	671.328	669.456	663.696	662.400
<b>52.5</b>	662.544	661.968	659.808	654.336	653.184
<b>53.0</b>	653.040	652.464	650.304	644.688	643.824
<b>53.5</b>	643.392	642.960	640.944	635.328	634.176
<b>54.0</b>	633.888	633.600	631.152	625.824	624.672
<b>54.5</b>	624.240	623.952	621.648	616.320	615.024

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<b>55.0</b>	614.592	614.592	612.000	606.816	605.520
<b>55.5</b>	604.512	605.088	602.352	597.168	595.872
<b>56.0</b>	594.288	595.440	592.848	587.664	586.368
<b>56.5</b>	584.784	585.792	583.344	578.160	576.720
<b>57.0</b>	574.704	576.144	573.696	568.512	567.072
<b>57.5</b>	564.768	566.496	564.192	559.008	557.568
<b>58.0</b>	554.976	556.848	554.544	549.504	548.208
<b>58.5</b>	545.328	547.200	545.040	540.000	538.560
<b>59.0</b>	535.392	537.408	535.392	530.496	529.200
<b>59.5</b>	525.744	527.760	525.888	520.992	519.552
<b>60.0</b>	516.528	518.112	516.240	511.488	510.336
<b>60.5</b>	506.736	508.176	506.736	502.128	500.832
<b>61.0</b>	497.088	498.528	497.088	492.624	491.616
<b>61.5</b>	487.872	488.736	487.584	483.264	482.256
<b>62.0</b>	478.224	479.088	477.936	473.904	473.040
<b>62.5</b>	468.720	469.440	468.432	464.544	463.680
<b>63.0</b>	459.360	459.648	458.928	455.184	454.320
<b>63.5</b>	449.712	450.144	449.280	445.680	444.960
<b>64.0</b>	440.208	440.496	439.776	436.464	435.600
<b>64.5</b>	430.560	430.848	430.272	426.816	426.384
<b>65.0</b>	420.912	421.200	420.624	417.456	416.736
<b>65.5</b>	411.408	411.696	411.264	407.952	407.520
<b>66.0</b>	401.472	402.192	401.616	398.448	398.016
<b>66.5</b>	391.680	392.544	391.968	389.088	388.512
<b>67.0</b>	381.888	383.184	382.608	379.728	379.296
<b>67.5</b>	372.240	373.680	372.816	370.224	369.792
<b>68.0</b>	362.736	364.464	363.456	360.720	360.288
<b>68.5</b>	353.088	354.816	353.952	351.216	350.640
<b>69.0</b>	343.440	345.456	344.448	342.000	341.424
<b>69.5</b>	333.936	336.096	334.944	332.640	332.064
<b>70.0</b>	324.576	326.736	325.584	323.424	322.848
<b>70.5</b>	315.216	317.376	316.224	314.208	313.632
<b>71.0</b>	305.856	308.160	306.864	304.704	304.272
<b>71.5</b>	296.784	298.800	297.504	295.632	295.056
<b>72.0</b>	287.712	289.440	288.288	286.848	285.984
<b>72.5</b>	278.928	280.368	279.216	277.632	277.056
<b>73.0</b>	270.144	271.008	270.000	268.560	267.984
<b>73.5</b>	260.784	261.936	260.784	259.200	258.768
<b>74.0</b>	251.712	252.864	251.568	250.272	249.696
<b>74.5</b>	242.928	243.648	242.496	241.200	240.624
<b>75.0</b>	234.144	234.720	233.568	232.416	231.984
<b>75.5</b>	225.504	226.080	224.928	223.776	223.200
<b>76.0</b>	216.864	217.296	216.288	215.136	214.704
<b>76.5</b>	208.368	208.656	207.648	206.784	206.208
<b>77.0</b>	199.872	200.016	199.152	198.144	197.712
<b>77.5</b>	191.376	191.664	190.656	189.792	189.360
<b>78.0</b>	183.024	183.312	182.160	181.440	181.008
<b>78.5</b>	174.672	174.960	173.952	173.232	172.368
<b>79.0</b>	166.032	166.608	165.600	165.024	164.304
<b>79.5</b>	157.680	158.400	157.392	156.816	156.384
<b>80.0</b>	149.616	150.336	149.184	148.896	148.320
<b>80.5</b>	141.538	142.200	141.192	140.803	140.270
<b>81.0</b>	133.402	134.208	133.286	132.754	132.293
<b>81.5</b>	125.366	126.216	125.165	124.805	124.474
<b>82.0</b>	117.446	118.224	117.374	116.942	116.496
<b>82.5</b>	109.512	110.376	109.426	109.166	108.778

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**CANDELA TABULATION - (Cont.)**

83.0	101.808	102.485	101.621	101.304	101.146
83.5	94.190	94.709	94.090	93.614	93.398
84.0	86.674	86.933	86.314	85.853	85.766
84.5	79.243	79.373	78.754	78.250	78.206
85.0	71.827	71.755	71.266	70.790	70.618
85.5	64.512	64.267	63.878	63.202	63.216
86.0	57.312	56.894	56.520	55.685	55.800
86.5	49.925	49.536	49.234	48.298	48.470
87.0	42.581	42.307	42.005	40.882	41.054
87.5	35.597	35.165	34.733	33.595	33.797
88.0	28.368	28.066	27.619	26.266	26.539
88.5	20.981	21.038	20.462	19.123	19.382
89.0	13.982	14.342	13.507	12.154	12.355
89.5	7.819	8.928	7.776	6.379	6.379
90.0	0.000	0.000	0.000	0.000	0.000
90.5	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : HCB02-4-BS35-ND-H-SM-SN-AW-GEN2.IES

CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HCB02-4-BS35-ND-H-SM-SN-AW-GEN2.IES**

**CANDELA TABULATION - (Cont.)**

<b>167.0</b>	0.000	0.000	0.000	0.000	0.000
<b>167.5</b>	0.000	0.000	0.000	0.000	0.000
<b>168.0</b>	0.000	0.000	0.000	0.000	0.000
<b>168.5</b>	0.000	0.000	0.000	0.000	0.000
<b>169.0</b>	0.000	0.000	0.000	0.000	0.000
<b>169.5</b>	0.000	0.000	0.000	0.000	0.000
<b>170.0</b>	0.000	0.000	0.000	0.000	0.000
<b>170.5</b>	0.000	0.000	0.000	0.000	0.000
<b>171.0</b>	0.000	0.000	0.000	0.000	0.000
<b>171.5</b>	0.000	0.000	0.000	0.000	0.000
<b>172.0</b>	0.000	0.000	0.000	0.000	0.000
<b>172.5</b>	0.000	0.000	0.000	0.000	0.000
<b>173.0</b>	0.000	0.000	0.000	0.000	0.000
<b>173.5</b>	0.000	0.000	0.000	0.000	0.000
<b>174.0</b>	0.000	0.000	0.000	0.000	0.000
<b>174.5</b>	0.000	0.000	0.000	0.000	0.000
<b>175.0</b>	0.000	0.000	0.000	0.000	0.000
<b>175.5</b>	0.000	0.000	0.000	0.000	0.000
<b>176.0</b>	0.000	0.000	0.000	0.000	0.000
<b>176.5</b>	0.000	0.000	0.000	0.000	0.000
<b>177.0</b>	0.000	0.000	0.000	0.000	0.000
<b>177.5</b>	0.000	0.000	0.000	0.000	0.000
<b>178.0</b>	0.000	0.000	0.000	0.000	0.000
<b>178.5</b>	0.000	0.000	0.000	0.000	0.000
<b>179.0</b>	0.000	0.000	0.000	0.000	0.000
<b>179.5</b>	0.000	0.000	0.000	0.000	0.000
<b>180.0</b>	0.000	0.000	0.000	0.000	0.000



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HCB02-4-BS35-ND-H-SM-SN-AW-GEN2.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	473.10	N.A.	13.50
0-30	992.37	N.A.	28.30
0-40	1601.1	N.A.	45.70
0-60	2762.18	N.A.	78.80
0-80	3425.12	N.A.	97.80
0-90	3503.88	N.A.	100.00
10-90	3380.65	N.A.	96.50
20-40	1127.99	N.A.	32.20
20-50	1743.05	N.A.	49.70
40-70	1576.3	N.A.	45.00
60-80	662.94	N.A.	18.90
70-80	247.72	N.A.	7.10
80-90	78.76	N.A.	2.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3503.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	123.23
10-20	349.87
20-30	519.27
30-40	608.73
40-50	615.05
50-60	546.03
60-70	415.22
70-80	247.72
80-90	78.76
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

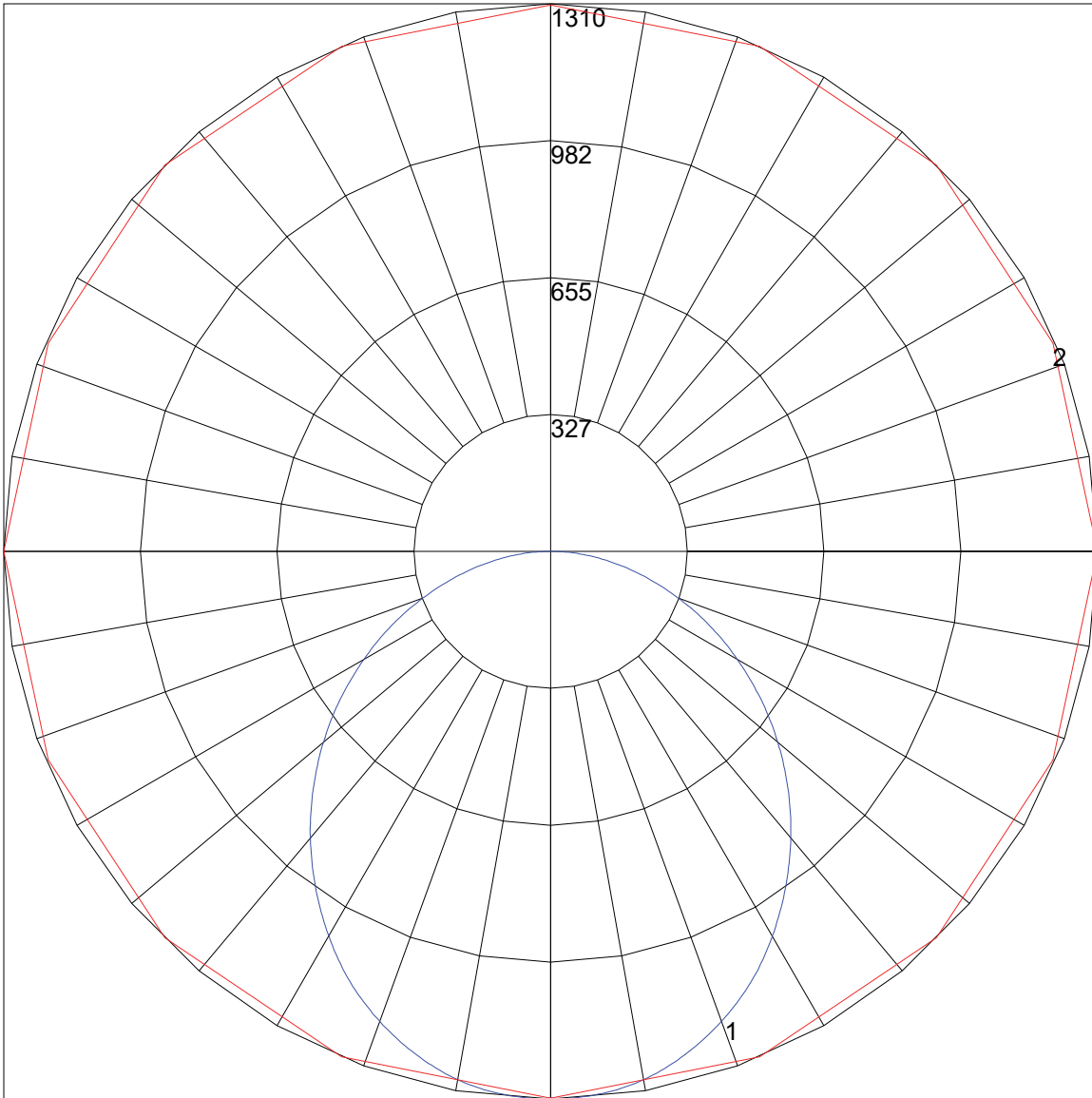
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HCB02-4-BS35-ND-H-SM-SN-AW-GEN2.IES**

**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	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	83
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

POLAR GRAPH



Maximum Candela = 1309.68 Located At Horizontal Angle = 0, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)