

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HCB02-4-BS35-ND-R-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-R-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	2628
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	35.7269
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	10005	9935	9831
55	9427	9387	9288
65	8762	8756	8675
75	7959	7939	7886
85	7250	7194	7128

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

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	979.776	979.776	979.776	979.776	979.776
<b>0.5</b>	982.260	976.536	980.100	980.964	980.532
<b>1.0</b>	982.044	976.320	979.884	980.748	980.316
<b>1.5</b>	981.936	976.104	979.452	980.208	979.884
<b>2.0</b>	981.504	975.888	979.020	979.776	979.452
<b>2.5</b>	981.072	975.348	978.372	979.020	978.804
<b>3.0</b>	980.532	974.808	977.724	978.264	978.156
<b>3.5</b>	980.100	974.268	976.860	977.292	977.400
<b>4.0</b>	979.344	973.404	975.888	976.212	976.320
<b>4.5</b>	978.588	972.648	974.916	975.024	975.024
<b>5.0</b>	977.724	971.676	973.836	973.620	973.836
<b>5.5</b>	976.644	970.596	972.540	972.324	972.432
<b>6.0</b>	975.564	969.408	971.244	970.920	970.812
<b>6.5</b>	974.484	968.004	969.732	969.300	969.192
<b>7.0</b>	973.188	966.600	968.220	967.788	967.572
<b>7.5</b>	971.568	965.088	966.600	966.276	965.736
<b>8.0</b>	970.056	963.468	964.872	964.656	964.008
<b>8.5</b>	968.220	961.740	963.144	962.928	962.172
<b>9.0</b>	966.384	959.796	961.308	961.200	960.228
<b>9.5</b>	964.332	957.744	959.472	959.256	958.284
<b>10.0</b>	962.280	955.800	957.420	957.096	956.124
<b>10.5</b>	960.012	953.532	955.368	954.936	953.964
<b>11.0</b>	957.744	951.372	953.208	952.776	951.912
<b>11.5</b>	955.152	948.780	950.940	950.400	949.644
<b>12.0</b>	952.452	946.296	948.456	948.024	947.268
<b>12.5</b>	949.644	943.596	945.972	945.432	944.892
<b>13.0</b>	946.728	940.788	943.272	942.732	942.408
<b>13.5</b>	943.704	937.872	940.464	940.032	939.816
<b>14.0</b>	940.788	934.956	937.548	937.116	937.116
<b>14.5</b>	937.440	931.824	934.524	934.092	934.200
<b>15.0</b>	934.308	928.584	931.392	930.960	931.068
<b>15.5</b>	930.852	925.344	928.260	927.936	927.936
<b>16.0</b>	927.396	921.996	924.804	924.588	924.588
<b>16.5</b>	923.940	918.540	921.348	921.132	921.024
<b>17.0</b>	920.376	914.976	917.892	917.676	917.352
<b>17.5</b>	916.704	911.304	914.328	914.004	913.464
<b>18.0</b>	912.924	907.632	910.440	910.116	909.576
<b>18.5</b>	909.144	903.960	906.552	906.120	905.688
<b>19.0</b>	905.148	900.072	902.664	902.016	901.476
<b>19.5</b>	901.368	896.184	898.452	897.696	897.048
<b>20.0</b>	897.156	892.188	894.348	893.160	892.512
<b>20.5</b>	893.052	888.192	889.920	888.624	888.084
<b>21.0</b>	889.056	884.088	885.492	883.980	883.440
<b>21.5</b>	884.520	879.768	880.956	879.228	878.688
<b>22.0</b>	880.308	875.448	876.312	874.260	873.828
<b>22.5</b>	875.772	871.020	871.452	869.292	868.860
<b>23.0</b>	871.236	866.376	866.700	864.108	863.676
<b>23.5</b>	866.592	861.732	861.624	859.032	858.384
<b>24.0</b>	861.840	856.872	856.656	853.740	852.876
<b>24.5</b>	856.872	851.904	851.472	848.556	847.584
<b>25.0</b>	852.012	847.044	846.288	843.156	842.076
<b>25.5</b>	846.936	841.968	840.888	837.756	836.568
<b>26.0</b>	841.644	836.784	835.596	832.464	830.952
<b>26.5</b>	836.460	831.492	830.304	826.956	825.444

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27.0	830.844	826.092	824.688	821.448	819.936
27.5	825.552	820.692	819.180	815.832	814.320
28.0	820.044	815.076	813.672	810.108	808.704
28.5	814.320	809.568	807.840	804.600	803.196
29.0	808.596	803.736	802.224	798.876	797.580
29.5	802.764	798.120	796.392	793.260	791.964
30.0	796.824	792.288	790.560	787.536	786.348
30.5	790.992	786.456	784.728	781.704	780.732
31.0	784.944	780.624	778.896	775.980	775.008
31.5	779.112	774.684	772.956	770.040	769.176
32.0	772.956	768.636	767.124	764.100	763.128
32.5	766.800	762.588	761.076	758.052	757.296
33.0	760.752	756.540	755.136	752.112	751.140
33.5	754.488	750.276	749.196	745.956	744.984
34.0	748.332	744.228	743.040	739.692	738.504
34.5	742.176	738.072	736.884	733.428	732.240
35.0	735.804	731.808	730.728	727.164	725.868
35.5	729.432	725.652	724.464	720.792	719.496
36.0	723.168	719.388	718.092	714.312	713.016
36.5	716.904	713.124	711.828	707.724	706.428
37.0	710.424	706.752	705.348	701.136	699.732
37.5	703.944	700.380	698.976	694.548	693.144
38.0	697.572	694.008	692.496	687.852	686.556
38.5	690.984	687.528	685.908	681.156	679.860
39.0	684.504	681.048	679.428	674.568	673.164
39.5	677.916	674.460	672.732	667.764	666.468
40.0	671.328	667.980	666.144	661.176	659.664
40.5	664.740	661.500	659.448	654.480	653.076
41.0	658.044	654.696	652.752	647.784	646.164
41.5	651.240	648.108	646.056	640.980	639.576
42.0	644.544	641.412	639.252	634.176	632.988
42.5	637.740	634.716	632.556	627.480	626.076
43.0	630.828	628.020	625.752	620.676	619.272
43.5	624.024	621.324	619.056	613.980	612.684
44.0	617.112	614.520	612.360	607.176	605.988
44.5	610.092	607.608	605.664	600.480	599.184
45.0	603.072	600.912	598.860	593.784	592.596
45.5	596.052	594.108	592.164	587.088	585.792
46.0	589.140	587.088	585.360	580.284	578.988
46.5	582.120	580.392	578.556	573.588	572.400
47.0	575.208	573.372	571.752	566.784	565.596
47.5	568.080	566.352	564.732	559.980	558.684
48.0	561.168	559.548	557.928	553.176	551.880
48.5	554.040	552.528	551.016	546.264	545.292
49.0	546.912	545.616	544.104	539.460	538.380
49.5	539.892	538.704	537.192	532.548	531.684
50.0	532.656	531.684	530.172	525.744	524.880
50.5	525.528	524.556	523.260	518.832	517.968
51.0	518.508	517.644	516.024	511.920	511.056
51.5	511.272	510.516	509.112	504.792	503.928
52.0	504.144	503.496	502.092	497.772	496.800
52.5	496.908	496.476	494.856	490.752	489.888
53.0	489.780	489.348	487.728	483.516	482.868
53.5	482.544	482.220	480.708	476.496	475.632
54.0	475.416	475.200	473.364	469.368	468.504
54.5	468.180	467.964	466.236	462.240	461.268

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55.0	460.944	460.944	459.000	455.112	454.140
55.5	453.384	453.816	451.764	447.876	446.904
56.0	445.716	446.580	444.636	440.748	439.776
56.5	438.588	439.344	437.508	433.620	432.540
57.0	431.028	432.108	430.272	426.384	425.304
57.5	423.576	424.872	423.144	419.256	418.176
58.0	416.232	417.636	415.908	412.128	411.156
58.5	408.996	410.400	408.780	405.000	403.920
59.0	401.544	403.056	401.544	397.872	396.900
59.5	394.308	395.820	394.416	390.744	389.664
60.0	387.396	388.584	387.180	383.616	382.752
60.5	380.052	381.132	380.052	376.596	375.624
61.0	372.816	373.896	372.816	369.468	368.712
61.5	365.904	366.552	365.688	362.448	361.692
62.0	358.668	359.316	358.452	355.428	354.780
62.5	351.540	352.080	351.324	348.408	347.760
63.0	344.520	344.736	344.196	341.388	340.740
63.5	337.284	337.608	336.960	334.260	333.720
64.0	330.156	330.372	329.832	327.348	326.700
64.5	322.920	323.136	322.704	320.112	319.788
65.0	315.684	315.900	315.468	313.092	312.552
65.5	308.556	308.772	308.448	305.964	305.640
66.0	301.104	301.644	301.212	298.836	298.512
66.5	293.760	294.408	293.976	291.816	291.384
67.0	286.416	287.388	286.956	284.796	284.472
67.5	279.180	280.260	279.612	277.668	277.344
68.0	272.052	273.348	272.592	270.540	270.216
68.5	264.816	266.112	265.464	263.412	262.980
69.0	257.580	259.092	258.336	256.500	256.068
69.5	250.452	252.072	251.208	249.480	249.048
70.0	243.432	245.052	244.188	242.568	242.136
70.5	236.412	238.032	237.168	235.656	235.224
71.0	229.392	231.120	230.148	228.528	228.204
71.5	222.588	224.100	223.128	221.724	221.292
72.0	215.784	217.080	216.216	215.136	214.488
72.5	209.196	210.276	209.412	208.224	207.792
73.0	202.608	203.256	202.500	201.420	200.988
73.5	195.588	196.452	195.588	194.400	194.076
74.0	188.784	189.648	188.676	187.704	187.272
74.5	182.196	182.736	181.872	180.900	180.468
75.0	175.608	176.040	175.176	174.312	173.988
75.5	169.128	169.560	168.696	167.832	167.400
76.0	162.648	162.972	162.216	161.352	161.028
76.5	156.276	156.492	155.736	155.088	154.656
77.0	149.904	150.012	149.364	148.608	148.284
77.5	143.532	143.748	142.992	142.344	142.020
78.0	137.268	137.484	136.620	136.080	135.756
78.5	131.004	131.220	130.464	129.924	129.276
79.0	124.524	124.956	124.200	123.768	123.228
79.5	118.260	118.800	118.044	117.612	117.288
80.0	112.212	112.752	111.888	111.672	111.240
80.5	106.153	106.650	105.894	105.602	105.203
81.0	100.051	100.656	99.965	99.565	99.220
81.5	94.025	94.662	93.874	93.604	93.355
82.0	88.085	88.668	88.031	87.707	87.372
82.5	82.134	82.782	82.069	81.875	81.583

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

83.0	76.356	76.864	76.216	75.978	75.859
83.5	70.643	71.032	70.567	70.211	70.049
84.0	65.005	65.200	64.735	64.390	64.325
84.5	59.432	59.530	59.065	58.687	58.655
85.0	53.870	53.816	53.449	53.093	52.963
85.5	48.384	48.200	47.909	47.401	47.412
86.0	42.984	42.671	42.390	41.764	41.850
86.5	37.444	37.152	36.925	36.223	36.353
87.0	31.936	31.730	31.504	30.661	30.791
87.5	26.698	26.374	26.050	25.196	25.348
88.0	21.276	21.049	20.714	19.699	19.904
88.5	15.736	15.779	15.347	14.342	14.537
89.0	10.487	10.757	10.130	9.115	9.266
89.5	5.864	6.696	5.832	4.784	4.784
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-R-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-R-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-R-SM-SN-AW-GEN2.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	354.83	N.A.	13.50
0-30	744.28	N.A.	28.30
0-40	1200.82	N.A.	45.70
0-60	2071.63	N.A.	78.80
0-80	2568.84	N.A.	97.80
0-90	2627.91	N.A.	100.00
10-90	2535.49	N.A.	96.50
20-40	846.00	N.A.	32.20
20-50	1307.28	N.A.	49.70
40-70	1182.23	N.A.	45.00
60-80	497.21	N.A.	18.90
70-80	185.79	N.A.	7.10
80-90	59.07	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	2627.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	92.42
10-20	262.40
20-30	389.45
30-40	456.55
40-50	461.29
50-60	409.52
60-70	311.42
70-80	185.79
80-90	59.07
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

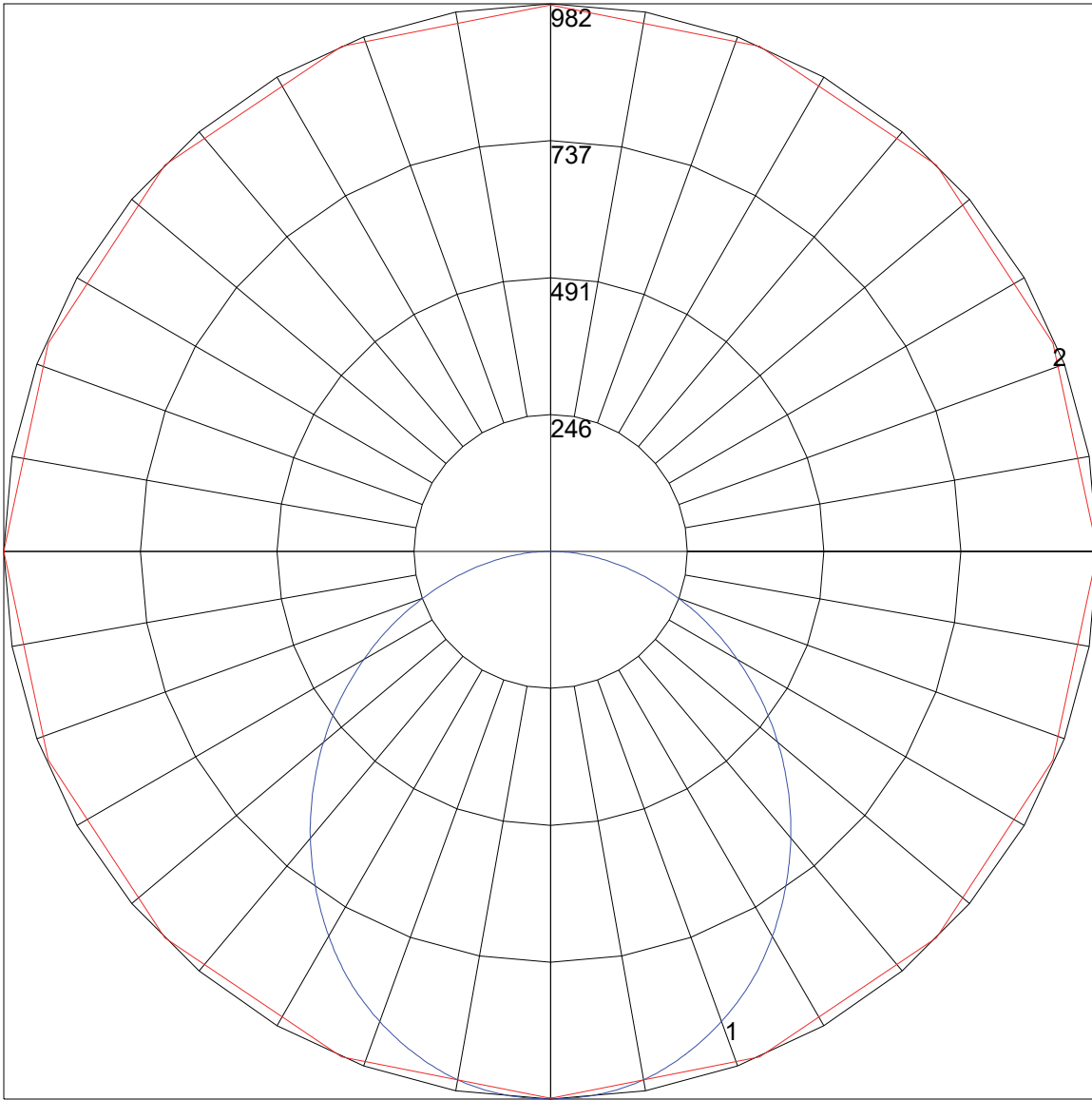
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HCB02-4-BS35-ND-R-SM-SN-AW-GEN2.IES**

**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 = 982.26 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.)