

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P585203

Luminaire Tested: **HCC8S80D010BZ-HM86080827-81WWWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585203  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S80D010BZ-HM86080827-81WWWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

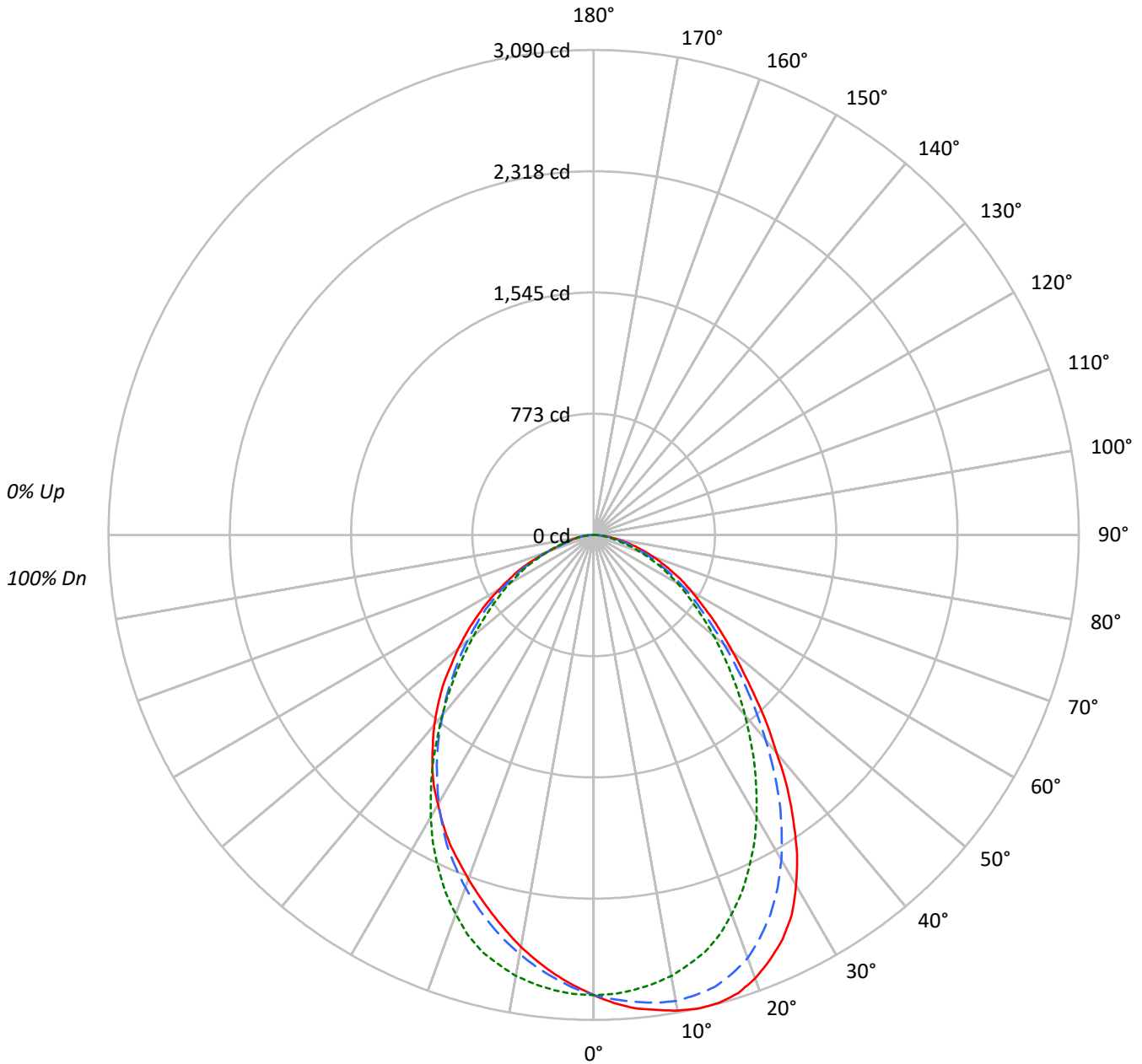
Lumens per Lamp: N/A  
Luminaire Lumens: 5897.2 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87								
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75								
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65								
4	87	76	68	62	84	75	67	61	72	66	61	70	64	60	68	63	59	57								
5	80	69	60	54	78	67	60	54	65	59	54	64	58	53	62	57	52	50								
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45								
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40								
8	65	52	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37								
9	61	48	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33								
10	57	45	38	33	56	44	37	33	44	37	32	43	37	32	42	36	32	30								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	90415	90415	90415
5°	93726	90117	87021
10°	96372	89333	83462
15°	98524	87753	79775
20°	98679	84329	76535
25°	96788	79640	73829
30°	91798	73852	70590
35°	83408	67259	67417
40°	72928	60353	63541
45°	63207	53766	59208
50°	55346	47752	53950
55°	49256	42316	48810
60°	44435	38015	42899
65°	40116	33425	37380
70°	36055	28166	27787
75°	31763	22327	20838
80°	26619	18504	19978
85°	20627	16204	17655



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.6	4.7
10°-20°	779.1	13.2
20°-30°	1113.4	18.9
30°-40°	1183.1	20.1
40°-50°	1018.6	17.3
50°-60°	761.5	12.9
60°-70°	485.7	8.2
70°-80°	221.1	3.7
80°-90°	58.0	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2169.1	36.8
0°-40°	3352.2	56.8
0°-60°	5132.3	87.0
0°-90°	5897.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5897.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2932	2932	2932	2932	2932	
5°	3028	2986	2911	2836	2811	290
15°	3086	2982	2749	2562	2499	869
25°	2845	2666	2341	2199	2170	1302
35°	2216	2062	1787	1741	1791	1380
45°	1449	1370	1233	1266	1358	1127
55°	916	841	787	854	908	824
65°	550	487	458	479	512	548
75°	267	229	187	171	175	283
85°	58	50	46	50	50	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1
2.5°	2986.3	2978.0	2982.1	2978.0	2982.1	2982.1	2973.8	2973.8	2973.8	2973.8	2961.2
5°	3027.9	3023.7	3023.7	3019.6	3015.4	3019.6	3015.4	3011.3	3002.9	2998.8	2986.3
7.5°	3052.9	3052.9	3052.9	3052.9	3048.7	3044.6	3040.4	3032.1	3023.7	3015.4	3007.1
10°	3077.8	3082.0	3077.8	3073.7	3069.5	3061.2	3057.0	3048.7	3036.2	3023.7	3015.4
12.5°	3090.3	3090.3	3086.2	3086.2	3077.8	3073.7	3061.2	3048.7	3036.2	3023.7	3002.9
15°	3086.2	3086.2	3082.0	3077.8	3065.4	3061.2	3052.9	3040.4	3019.6	3002.9	2982.1
17.5°	3061.2	3057.0	3048.7	3048.7	3032.1	3027.9	3019.6	3002.9	2982.1	2957.0	2932.1
20°	3007.1	3007.1	3002.9	2998.8	2982.1	2969.5	2961.2	2940.4	2923.8	2894.6	2869.7
22.5°	2932.1	2940.4	2932.1	2923.8	2902.9	2898.8	2886.3	2861.3	2836.4	2802.9	2773.8
25°	2844.7	2840.5	2836.4	2828.0	2811.3	2802.9	2786.3	2761.3	2736.4	2698.9	2665.5
27.5°	2732.2	2715.6	2715.6	2698.9	2686.4	2673.8	2665.5	2640.5	2607.2	2578.1	2536.4
30°	2578.1	2582.3	2561.5	2557.3	2536.4	2528.1	2511.4	2486.4	2457.3	2424.0	2390.6
32.5°	2411.5	2399.0	2399.0	2382.3	2365.6	2353.1	2349.0	2319.9	2294.9	2261.6	2228.2
35°	2215.7	2215.7	2203.2	2199.1	2182.4	2174.1	2161.6	2145.0	2115.8	2086.6	2061.6
37.5°	2024.2	2015.8	2011.7	2003.3	1990.9	1978.4	1978.4	1949.1	1945.0	1911.7	1878.4
40°	1811.7	1820.1	1811.7	1799.2	1795.0	1786.7	1782.5	1765.9	1753.4	1724.3	1703.5
42.5°	1632.6	1624.3	1624.3	1620.1	1603.5	1603.5	1595.2	1586.8	1566.0	1557.7	1532.7
45°	1449.4	1457.7	1445.2	1449.4	1432.7	1432.7	1432.7	1416.1	1399.5	1387.0	1370.2
47.5°	1291.1	1295.3	1295.3	1282.8	1278.7	1278.7	1270.3	1262.0	1249.5	1232.9	1220.3
50°	1153.7	1157.8	1149.5	1145.4	1137.0	1132.9	1132.9	1116.2	1107.9	1091.3	1082.8
52.5°	1028.7	1028.7	1024.6	1024.6	1012.1	1012.1	1003.8	991.3	982.9	974.6	953.8
55°	916.2	916.2	912.1	907.9	907.9	895.4	891.3	878.8	870.5	853.8	841.3
57.5°	808.0	812.2	808.0	803.9	799.7	795.4	787.1	774.6	766.3	753.8	745.5
60°	720.5	720.5	716.4	712.2	703.9	699.7	695.6	687.2	674.8	666.4	654.0
62.5°	637.2	633.0	628.9	624.7	616.4	616.4	608.1	599.7	587.2	578.9	570.6
65°	549.8	549.8	545.6	545.6	541.5	533.1	529.0	524.8	508.2	503.9	487.3
67.5°	470.6	474.8	466.4	466.4	458.1	458.1	454.0	441.5	437.3	429.0	420.7
70°	399.9	399.9	399.9	395.7	387.4	383.2	379.1	370.7	366.6	358.1	349.8
72.5°	329.0	329.0	324.8	324.8	320.7	316.5	312.4	304.0	304.0	295.7	287.4
75°	266.6	266.6	262.4	258.3	254.1	254.1	249.9	245.8	237.4	233.3	229.1
77.5°	204.0	204.0	204.0	199.9	195.7	195.7	195.7	187.4	179.1	179.1	174.9
80°	149.9	149.9	145.8	145.8	141.6	141.6	141.6	137.4	133.3	129.1	125.0
82.5°	100.0	100.0	100.0	100.0	95.8	95.8	95.8	91.7	87.5	87.5	87.5
85°	58.3	58.3	58.3	58.3	54.1	54.1	54.1	54.1	54.1	49.9	49.9
87.5°	25.0	20.8	25.0	20.8	25.0	20.8	25.0	20.8	20.8	20.8	20.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1
2.5°	2965.4	2961.2	2957.0	2952.9	2952.9	2948.7	2940.4	2936.2	2932.1	2927.9	2927.9
5°	2982.1	2978.0	2969.5	2961.2	2957.0	2948.7	2940.4	2932.1	2923.8	2911.3	2907.1
7.5°	2994.6	2982.1	2973.8	2957.0	2952.9	2944.6	2932.1	2919.6	2902.9	2886.3	2873.8
10°	2994.6	2978.0	2965.4	2944.6	2936.2	2927.9	2911.3	2890.5	2869.7	2853.0	2832.2
12.5°	2986.3	2965.4	2944.6	2923.8	2911.3	2898.8	2873.8	2853.0	2828.0	2802.9	2786.3
15°	2957.0	2932.1	2907.1	2882.1	2869.7	2853.0	2828.0	2798.8	2773.8	2748.8	2719.7
17.5°	2902.9	2878.0	2848.8	2819.6	2802.9	2790.5	2753.0	2732.2	2694.7	2669.7	2644.7
20°	2832.2	2802.9	2765.5	2736.4	2715.6	2703.1	2673.8	2636.4	2607.2	2569.8	2544.8
22.5°	2740.5	2703.1	2665.5	2636.4	2615.6	2598.9	2561.5	2523.9	2498.9	2465.6	2436.5
25°	2632.2	2594.8	2557.3	2515.6	2494.8	2478.1	2444.8	2411.5	2378.1	2340.7	2315.7
27.5°	2503.1	2461.5	2428.2	2390.6	2369.8	2344.8	2307.4	2274.1	2240.7	2215.7	2182.4
30°	2361.5	2315.7	2282.4	2244.8	2224.0	2203.2	2165.8	2132.5	2103.3	2074.1	2057.4
32.5°	2190.7	2157.4	2124.1	2086.6	2069.9	2057.4	2020.0	1986.7	1953.3	1928.3	1915.8
35°	2028.3	1990.9	1961.7	1928.3	1907.5	1895.0	1861.7	1832.6	1816.0	1786.7	1770.1
37.5°	1857.6	1828.4	1795.0	1761.7	1749.3	1736.8	1711.8	1682.7	1657.6	1636.8	1628.5
40°	1678.5	1653.4	1624.3	1603.5	1591.0	1578.5	1557.7	1536.9	1520.1	1499.3	1491.0
42.5°	1507.7	1491.0	1466.0	1441.1	1428.6	1424.4	1399.5	1382.8	1374.4	1366.0	1357.7
45°	1353.6	1328.6	1311.9	1295.3	1282.8	1274.5	1262.0	1249.5	1241.2	1232.9	1224.4
47.5°	1203.6	1182.8	1166.2	1153.7	1141.2	1137.0	1128.7	1116.2	1107.9	1107.9	1107.9
50°	1066.2	1049.5	1032.9	1024.6	1020.4	1012.1	1003.8	999.6	995.4	995.4	995.4
52.5°	945.5	928.7	916.2	907.9	907.9	899.6	891.3	887.1	887.1	887.1	887.1
55°	833.0	820.5	812.2	803.9	795.4	791.3	791.3	791.3	787.1	787.1	791.3
57.5°	733.0	724.7	712.2	703.9	699.7	699.7	695.6	691.4	695.6	699.7	703.9
60°	641.3	633.0	628.9	616.4	616.4	616.4	612.2	612.2	612.2	616.4	620.5
62.5°	558.1	554.0	545.6	541.5	537.3	537.3	533.1	533.1	533.1	533.1	537.3
65°	483.1	474.8	466.4	466.4	466.4	462.3	462.3	454.0	458.1	458.1	454.0
67.5°	412.3	404.0	399.9	395.7	391.5	391.5	387.4	383.2	379.1	379.1	379.1
70°	345.6	337.3	337.3	329.0	329.0	324.8	320.7	320.7	316.5	312.4	308.2
72.5°	279.1	274.9	270.7	266.6	266.6	266.6	262.4	258.3	254.1	249.9	241.6
75°	220.8	220.8	212.4	208.2	208.2	204.0	199.9	195.7	191.5	187.4	183.2
77.5°	170.7	166.6	158.3	154.1	154.1	154.1	149.9	145.8	141.6	137.4	133.3
80°	125.0	120.8	116.6	112.5	112.5	112.5	108.3	108.3	104.2	104.2	104.2
82.5°	83.3	83.3	79.2	79.2	79.2	79.2	75.0	75.0	75.0	75.0	75.0
85°	49.9	49.9	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
87.5°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1
2.5°	2919.6	2919.6	2911.3	2907.1	2902.9	2907.1	2898.8	2894.6	2890.5	2890.5	2886.3
5°	2894.6	2890.5	2873.8	2869.7	2865.5	2861.3	2853.0	2844.7	2836.4	2832.2	2828.0
7.5°	2861.3	2848.8	2832.2	2828.0	2823.8	2811.3	2798.8	2790.5	2778.0	2773.8	2765.5
10°	2815.4	2798.8	2786.3	2773.8	2765.5	2753.0	2740.5	2728.0	2711.4	2707.2	2694.7
12.5°	2761.3	2740.5	2715.6	2711.4	2698.9	2682.3	2665.5	2653.0	2640.5	2632.2	2619.7
15°	2694.7	2673.8	2648.9	2636.4	2623.9	2611.4	2590.6	2573.9	2561.5	2549.0	2536.4
17.5°	2615.6	2590.6	2569.8	2557.3	2549.0	2528.1	2511.4	2490.6	2478.1	2465.6	2453.1
20°	2519.7	2498.9	2469.8	2457.3	2453.1	2436.5	2415.7	2407.4	2390.6	2378.1	2369.8
22.5°	2411.5	2390.6	2365.6	2357.3	2340.7	2332.3	2311.5	2303.2	2294.9	2282.4	2278.2
25°	2290.7	2269.9	2249.1	2244.8	2232.3	2224.0	2211.5	2199.1	2199.1	2186.6	2186.6
27.5°	2165.8	2145.0	2128.3	2120.0	2115.8	2107.5	2094.9	2090.7	2086.6	2082.4	2082.4
30°	2032.5	2007.5	1999.2	1995.0	1990.9	1982.5	1978.4	1970.1	1974.2	1978.4	1974.2
32.5°	1890.9	1882.5	1865.9	1857.6	1861.7	1857.6	1849.3	1857.6	1853.4	1861.7	1865.9
35°	1753.4	1745.1	1736.8	1736.8	1728.4	1728.4	1728.4	1732.6	1740.9	1745.1	1753.4
37.5°	1620.1	1607.6	1603.5	1599.3	1603.5	1603.5	1603.5	1611.8	1620.1	1628.5	1640.9
40°	1478.5	1470.2	1470.2	1470.2	1470.2	1482.7	1478.5	1486.8	1495.2	1507.7	1520.1
42.5°	1345.2	1345.2	1349.4	1349.4	1349.4	1349.4	1357.7	1370.2	1382.8	1395.3	1407.8
45°	1220.3	1220.3	1220.3	1228.6	1228.6	1232.9	1249.5	1257.8	1266.2	1278.7	1291.1
47.5°	1103.7	1103.7	1107.9	1112.1	1116.2	1124.6	1132.9	1145.4	1157.8	1166.2	1178.7
50°	995.4	999.6	1007.9	1016.2	1016.2	1020.4	1032.9	1041.2	1049.5	1062.0	1066.2
52.5°	891.3	899.6	907.9	912.1	916.2	924.6	928.7	941.2	945.5	958.0	962.1
55°	795.4	799.7	812.2	816.4	816.4	824.7	833.0	841.3	853.8	853.8	862.1
57.5°	708.0	712.2	720.5	724.7	720.5	733.0	737.2	745.5	749.7	758.0	762.1
60°	620.5	628.9	633.0	633.0	637.2	641.3	649.7	649.7	658.1	666.4	666.4
62.5°	537.3	541.5	545.6	549.8	554.0	549.8	562.3	562.3	570.6	574.8	583.1
65°	458.1	462.3	462.3	466.4	466.4	470.6	470.6	474.8	478.9	487.3	491.4
67.5°	379.1	379.1	379.1	383.2	379.1	383.2	383.2	387.4	387.4	395.7	399.9
70°	308.2	304.0	299.9	299.9	299.9	299.9	295.7	299.9	299.9	304.0	304.0
72.5°	237.4	233.3	229.1	225.0	225.0	220.8	216.5	220.8	220.8	225.0	225.0
75°	179.1	170.7	170.7	170.7	166.6	166.6	166.6	170.7	170.7	170.7	174.9
77.5°	133.3	133.3	129.1	129.1	129.1	133.3	133.3	137.4	137.4	137.4	137.4
80°	100.0	104.2	104.2	104.2	104.2	108.3	108.3	108.3	108.3	112.5	112.5
82.5°	75.0	75.0	75.0	75.0	79.2	79.2	79.2	79.2	79.2	79.2	79.2
85°	45.8	49.9	49.9	45.8	49.9	49.9	49.9	49.9	49.9	49.9	49.9
87.5°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Cooper Lighting Solutions Photometric Lab  
 1121 Highway 74 South  
 Peachtree City, GA 30269



TEST NUMBER: P585203

CATALOG NUMBER: HCC8S80D010BZ-HM86080827-81WWWB

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1
2.5°	2882.1	2882.1	2882.1	2882.1	2878.0	2878.0	2878.0	2873.8
5°	2819.6	2819.6	2819.6	2811.3	2815.4	2815.4	2807.1	2811.3
7.5°	2757.2	2753.0	2748.8	2748.8	2744.7	2740.5	2736.4	2740.5
10°	2686.4	2673.8	2673.8	2669.7	2669.7	2661.3	2661.3	2665.5
12.5°	2607.2	2598.9	2598.9	2594.8	2590.6	2586.4	2582.3	2582.3
15°	2528.1	2519.7	2515.6	2511.4	2507.2	2498.9	2503.1	2498.9
17.5°	2449.0	2436.5	2436.5	2432.3	2428.2	2419.9	2419.9	2415.7
20°	2357.3	2353.1	2344.8	2349.0	2344.8	2336.5	2332.3	2332.3
22.5°	2265.8	2265.8	2261.6	2261.6	2257.4	2253.3	2249.1	2249.1
25°	2178.2	2174.1	2178.2	2178.2	2165.8	2165.8	2165.8	2169.9
27.5°	2078.3	2082.4	2078.3	2078.3	2078.3	2078.3	2082.4	2078.3
30°	1978.4	1978.4	1978.4	1982.5	1990.9	1986.7	1986.7	1982.5
32.5°	1870.1	1874.2	1874.2	1878.4	1882.5	1890.9	1890.9	1895.0
35°	1761.7	1770.1	1774.2	1770.1	1782.5	1782.5	1790.9	1790.9
37.5°	1649.3	1653.4	1661.7	1665.9	1674.3	1678.5	1682.7	1682.7
40°	1528.6	1545.2	1549.4	1553.5	1566.0	1566.0	1570.2	1578.5
42.5°	1416.1	1432.7	1436.9	1441.1	1449.4	1461.9	1457.7	1466.0
45°	1307.8	1320.3	1324.4	1328.6	1341.1	1345.2	1345.2	1357.7
47.5°	1191.1	1199.5	1203.6	1211.9	1220.3	1228.6	1237.0	1232.9
50°	1074.5	1087.0	1095.4	1099.6	1112.1	1116.2	1120.4	1124.6
52.5°	970.5	978.8	982.9	987.1	999.6	1003.8	1007.9	1016.2
55°	870.5	874.6	883.0	878.8	891.3	895.4	899.6	907.9
57.5°	770.5	774.6	778.8	778.8	787.1	795.4	799.7	803.9
60°	674.8	683.1	687.2	687.2	687.2	695.6	695.6	695.6
62.5°	587.2	587.2	591.4	591.4	599.7	599.7	599.7	599.7
65°	495.6	499.7	503.9	503.9	512.3	508.2	516.5	512.3
67.5°	399.9	399.9	408.2	408.2	404.0	408.2	408.2	408.2
70°	304.0	304.0	308.2	308.2	308.2	308.2	308.2	308.2
72.5°	225.0	225.0	225.0	229.1	225.0	225.0	229.1	225.0
75°	174.9	174.9	174.9	174.9	174.9	174.9	174.9	174.9
77.5°	137.4	137.4	141.6	141.6	141.6	141.6	141.6	141.6
80°	112.5	112.5	112.5	112.5	116.6	112.5	112.5	112.5
82.5°	83.3	79.2	83.3	79.2	83.3	83.3	83.3	83.3
85°	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
87.5°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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Scaled Data Report



— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)