

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: P585254

Luminaire Tested: **HCC8S80D010BZ-HM86080840-81WWWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585254  
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-HM86080840-81WWWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

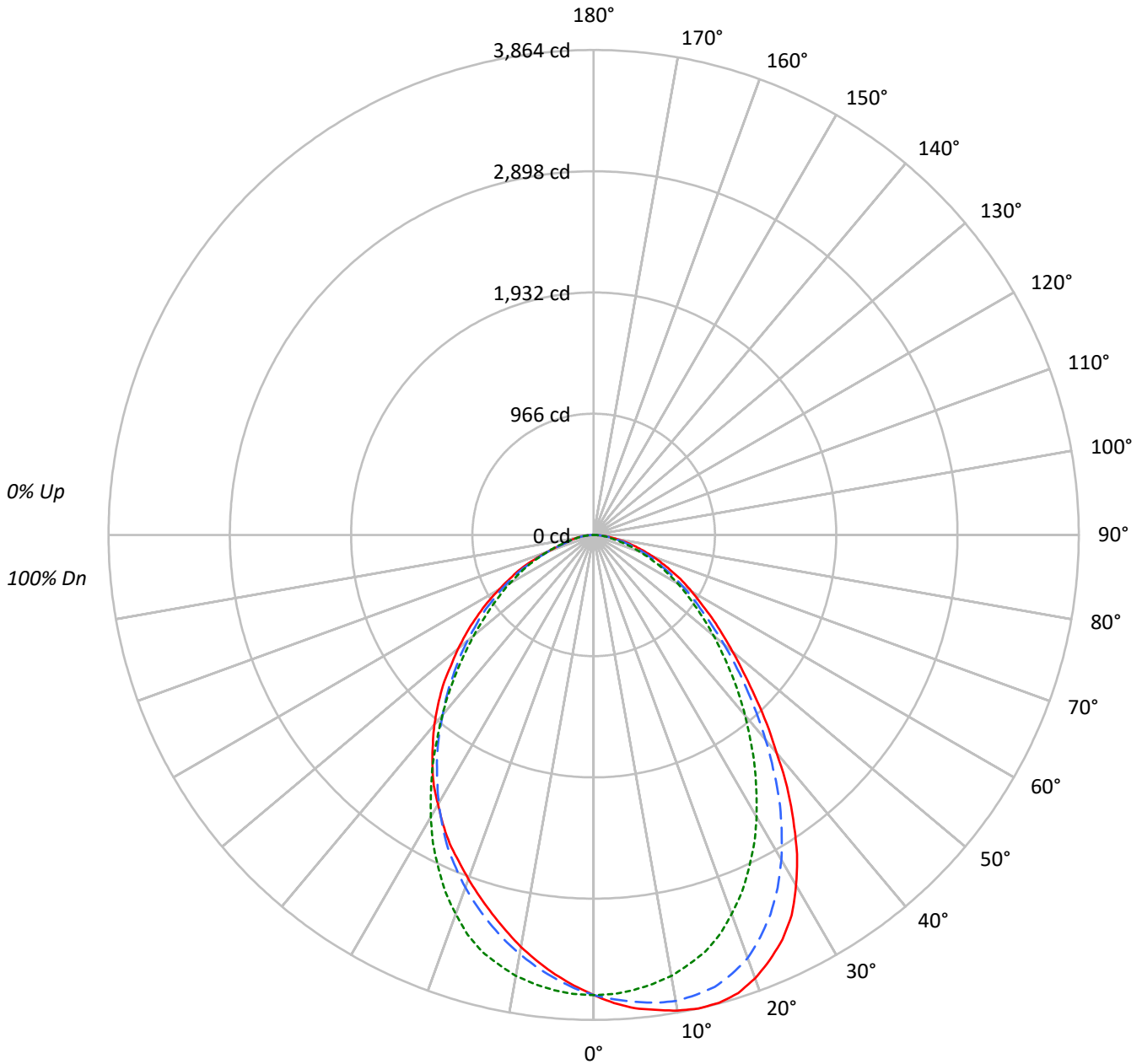
Lumens per Lamp: N/A  
Luminaire Lumens: 7374.0 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): 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	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°	113058	113058	113058
5°	117195	112685	108816
10°	120511	111706	104366
15°	123195	109733	99756
20°	123389	105445	95706
25°	121024	99582	92318
30°	114785	92350	88265
35°	104297	84105	84300
40°	91191	75468	79457
45°	79037	67223	74040
50°	69206	59707	67455
55°	61595	52917	61041
60°	55567	47537	53643
65°	50163	41802	46741
70°	45080	35216	34747
75°	39710	27927	26068
80°	33296	23121	24985
85°	25793	20273	22113



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.9	4.7
10°-20°	974.2	13.2
20°-30°	1392.3	18.9
30°-40°	1479.4	20.1
40°-50°	1273.7	17.3
50°-60°	952.3	12.9
60°-70°	607.4	8.2
70°-80°	276.4	3.7
80°-90°	72.5	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°	2712.3	36.8
0°-40°	4191.7	56.8
0°-60°	6417.6	87.0
0°-90°	7374.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7374.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3666	3666	3666	3666	3666	
5°	3786	3734	3640	3546	3515	363
15°	3859	3729	3437	3203	3125	1087
25°	3557	3333	2927	2750	2713	1628
35°	2771	2578	2234	2177	2239	1725
45°	1812	1714	1542	1583	1698	1409
55°	1146	1052	984	1068	1135	1030
65°	688	609	573	599	641	686
75°	333	286	234	214	219	354
85°	73	62	57	62	62	88
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°	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4
2.5°	3734.1	3723.7	3728.8	3723.7	3728.8	3728.8	3718.5	3718.5	3718.5	3718.5	3702.8
5°	3786.1	3780.9	3780.9	3775.8	3770.6	3775.8	3770.6	3765.3	3754.9	3749.7	3734.1
7.5°	3817.4	3817.4	3817.4	3817.4	3812.2	3806.9	3801.8	3791.4	3780.9	3770.6	3760.1
10°	3848.7	3853.9	3848.7	3843.4	3838.2	3827.9	3822.6	3812.2	3796.6	3780.9	3770.6
12.5°	3864.2	3864.2	3859.0	3859.0	3848.7	3843.4	3827.9	3812.2	3796.6	3780.9	3754.9
15°	3859.0	3859.0	3853.9	3848.7	3833.0	3827.9	3817.4	3801.8	3775.8	3754.9	3728.8
17.5°	3827.9	3822.6	3812.2	3812.2	3791.4	3786.1	3775.8	3754.9	3728.8	3697.7	3666.4
20°	3760.1	3760.1	3754.9	3749.7	3728.8	3713.2	3702.8	3676.7	3655.9	3619.6	3588.3
22.5°	3666.4	3676.7	3666.4	3655.9	3629.9	3624.7	3609.1	3577.8	3546.5	3504.9	3468.4
25°	3557.0	3551.8	3546.5	3536.2	3515.4	3504.9	3484.1	3452.9	3421.6	3374.7	3333.1
27.5°	3416.4	3395.5	3395.5	3374.7	3359.2	3343.5	3333.1	3301.9	3260.1	3223.7	3171.7
30°	3223.7	3229.0	3202.9	3197.7	3171.7	3161.2	3140.4	3109.1	3072.7	3031.0	2989.4
32.5°	3015.4	2999.7	2999.7	2978.9	2958.1	2942.5	2937.3	2900.8	2869.5	2827.9	2786.3
35°	2770.6	2770.6	2755.0	2749.8	2729.0	2718.5	2703.0	2682.0	2645.6	2609.1	2577.9
37.5°	2531.0	2520.7	2515.4	2505.0	2489.4	2473.7	2473.7	2437.3	2432.1	2390.5	2348.8
40°	2265.4	2275.9	2265.4	2249.8	2244.6	2234.2	2229.0	2208.2	2192.5	2156.1	2130.1
42.5°	2041.5	2031.0	2031.0	2025.9	2005.0	2005.0	1994.7	1984.2	1958.2	1947.8	1916.5
45°	1812.4	1822.7	1807.2	1812.4	1791.6	1791.6	1791.6	1770.7	1749.9	1734.3	1713.5
47.5°	1614.4	1619.7	1619.7	1604.1	1598.8	1598.8	1588.4	1578.0	1562.3	1541.5	1526.0
50°	1442.6	1447.8	1437.4	1432.2	1421.8	1416.6	1416.6	1395.8	1385.3	1364.5	1354.0
52.5°	1286.4	1286.4	1281.1	1281.1	1265.6	1265.6	1255.1	1239.5	1229.1	1218.6	1192.6
55°	1145.7	1145.7	1140.5	1135.4	1135.4	1119.7	1114.4	1098.9	1088.4	1067.6	1052.0
57.5°	1010.3	1015.5	1010.3	1005.2	999.9	994.7	984.3	968.7	958.2	942.6	932.2
60°	901.0	901.0	895.8	890.6	880.1	875.0	869.8	859.3	843.7	833.3	817.7
62.5°	796.9	791.6	786.4	781.2	770.8	770.8	760.4	749.9	734.3	723.9	713.5
65°	687.5	687.5	682.2	682.2	677.0	666.7	661.4	656.2	635.4	630.2	609.4
67.5°	588.6	593.7	583.3	583.3	572.9	572.9	567.6	552.1	546.8	536.4	526.0
70°	500.0	500.0	500.0	494.7	484.3	479.2	473.9	463.5	458.2	447.9	437.4
72.5°	411.4	411.4	406.2	406.2	401.0	395.8	390.6	380.1	380.1	369.8	359.3
75°	333.3	333.3	328.0	322.9	317.7	317.7	312.5	307.2	296.9	291.7	286.4
77.5°	255.2	255.2	255.2	249.9	244.8	244.8	244.8	234.4	223.9	223.9	218.8
80°	187.5	187.5	182.3	182.3	177.0	177.0	177.0	171.8	166.7	161.5	156.2
82.5°	125.0	125.0	125.0	125.0	119.7	119.7	119.7	114.6	109.4	109.4	109.4
85°	72.9	72.9	72.9	72.9	67.7	67.7	67.7	67.7	67.7	62.5	62.5
87.5°	31.3	26.0	31.3	26.0	31.3	26.0	31.3	26.0	26.0	26.0	26.0
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°	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4
2.5°	3708.0	3702.8	3697.7	3692.4	3692.4	3687.2	3676.7	3671.6	3666.4	3661.2	3661.2
5°	3728.8	3723.7	3713.2	3702.8	3697.7	3687.2	3676.7	3666.4	3655.9	3640.4	3635.1
7.5°	3744.5	3728.8	3718.5	3697.7	3692.4	3682.0	3666.4	3650.7	3629.9	3609.1	3593.5
10°	3744.5	3723.7	3708.0	3682.0	3671.6	3661.2	3640.4	3614.3	3588.3	3567.5	3541.4
12.5°	3734.1	3708.0	3682.0	3655.9	3640.4	3624.7	3593.5	3567.5	3536.2	3504.9	3484.1
15°	3697.7	3666.4	3635.1	3603.9	3588.3	3567.5	3536.2	3499.7	3468.4	3437.3	3400.8
17.5°	3629.9	3598.6	3562.2	3525.7	3504.9	3489.4	3442.4	3416.4	3369.5	3338.2	3307.1
20°	3541.4	3504.9	3458.1	3421.6	3395.5	3380.0	3343.5	3296.6	3260.1	3213.3	3182.0
22.5°	3426.8	3380.0	3333.1	3296.6	3270.6	3249.8	3202.9	3156.0	3124.8	3083.1	3046.7
25°	3291.4	3244.5	3197.7	3145.6	3119.6	3098.8	3057.0	3015.4	2973.7	2926.8	2895.6
27.5°	3129.9	3077.8	3036.2	2989.4	2963.3	2932.1	2885.2	2843.5	2801.9	2770.6	2729.0
30°	2952.9	2895.6	2854.0	2807.1	2781.1	2755.0	2708.1	2666.5	2629.9	2593.6	2572.8
32.5°	2739.3	2697.7	2656.0	2609.1	2588.3	2572.8	2525.8	2484.2	2442.6	2411.3	2395.6
35°	2536.3	2489.4	2452.9	2411.3	2385.3	2369.6	2327.9	2291.4	2270.6	2234.2	2213.3
37.5°	2322.7	2286.3	2244.6	2203.0	2187.3	2171.7	2140.4	2104.1	2072.8	2046.7	2036.3
40°	2098.8	2067.6	2031.0	2005.0	1989.4	1973.9	1947.8	1921.8	1900.9	1874.8	1864.5
42.5°	1885.3	1864.5	1833.2	1801.9	1786.4	1781.1	1749.9	1729.0	1718.6	1708.2	1697.8
45°	1692.5	1661.3	1640.5	1619.7	1604.1	1593.6	1578.0	1562.3	1552.0	1541.5	1531.1
47.5°	1505.0	1479.0	1458.2	1442.6	1426.9	1421.8	1411.3	1395.8	1385.3	1385.3	1385.3
50°	1333.2	1312.4	1291.6	1281.1	1275.9	1265.6	1255.1	1249.9	1244.6	1244.6	1244.6
52.5°	1182.2	1161.4	1145.7	1135.4	1135.4	1124.9	1114.4	1109.3	1109.3	1109.3	1109.3
55°	1041.6	1026.0	1015.5	1005.2	994.7	989.5	989.5	989.5	984.3	984.3	989.5
57.5°	916.6	906.1	890.6	880.1	875.0	875.0	869.8	864.5	869.8	875.0	880.1
60°	802.0	791.6	786.4	770.8	770.8	770.8	765.6	765.6	765.6	770.8	775.9
62.5°	697.8	692.7	682.2	677.0	671.8	671.8	666.7	666.7	666.7	666.7	671.8
65°	604.1	593.7	583.3	583.3	583.3	578.1	578.1	567.6	572.9	572.9	567.6
67.5°	515.6	505.2	500.0	494.7	489.5	489.5	484.3	479.2	473.9	473.9	473.9
70°	432.2	421.9	421.9	411.4	411.4	406.2	401.0	401.0	395.8	390.6	385.4
72.5°	349.0	343.7	338.5	333.3	333.3	333.3	328.0	322.9	317.7	312.5	302.0
75°	276.0	276.0	265.6	260.4	260.4	255.2	249.9	244.8	239.6	234.4	229.1
77.5°	213.5	208.3	197.8	192.7	192.7	192.7	187.5	182.3	177.0	171.8	166.7
80°	156.2	151.0	145.8	140.7	140.7	140.7	135.4	135.4	130.2	130.2	130.2
82.5°	104.2	104.2	98.9	98.9	98.9	98.9	93.7	93.7	93.7	93.7	93.7
85°	62.5	62.5	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
87.5°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
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°	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4
2.5°	3650.7	3650.7	3640.4	3635.1	3629.9	3635.1	3624.7	3619.6	3614.3	3614.3	3609.1
5°	3619.6	3614.3	3593.5	3588.3	3583.1	3577.8	3567.5	3557.0	3546.5	3541.4	3536.2
7.5°	3577.8	3562.2	3541.4	3536.2	3531.0	3515.4	3499.7	3489.4	3473.7	3468.4	3458.1
10°	3520.5	3499.7	3484.1	3468.4	3458.1	3442.4	3426.8	3411.2	3390.3	3385.2	3369.5
12.5°	3452.9	3426.8	3395.5	3390.3	3374.7	3353.9	3333.1	3317.4	3301.9	3291.4	3275.8
15°	3369.5	3343.5	3312.2	3296.6	3281.0	3265.4	3239.3	3218.5	3202.9	3187.2	3171.7
17.5°	3270.6	3239.3	3213.3	3197.7	3187.2	3161.2	3140.4	3114.3	3098.8	3083.1	3067.5
20°	3150.9	3124.8	3088.3	3072.7	3067.5	3046.7	3020.7	3010.2	2989.4	2973.7	2963.3
22.5°	3015.4	2989.4	2958.1	2947.6	2926.8	2916.5	2890.5	2880.0	2869.5	2854.0	2848.7
25°	2864.4	2838.4	2812.3	2807.1	2791.4	2781.1	2765.4	2749.8	2749.8	2734.1	2734.1
27.5°	2708.1	2682.0	2661.2	2650.9	2645.6	2635.2	2619.6	2614.4	2609.1	2603.9	2603.9
30°	2541.5	2510.2	2499.8	2494.6	2489.4	2478.9	2473.7	2463.4	2468.6	2473.7	2468.6
32.5°	2364.4	2354.0	2333.2	2322.7	2327.9	2322.7	2312.4	2322.7	2317.5	2327.9	2333.2
35°	2192.5	2182.2	2171.7	2171.7	2161.2	2161.2	2161.2	2166.5	2176.9	2182.2	2192.5
37.5°	2025.9	2010.2	2005.0	1999.9	2005.0	2005.0	2005.0	2015.5	2025.9	2036.3	2052.0
40°	1848.8	1838.4	1838.4	1838.4	1838.4	1854.0	1848.8	1859.2	1869.7	1885.3	1900.9
42.5°	1682.2	1682.2	1687.4	1687.4	1687.4	1687.4	1697.8	1713.5	1729.0	1744.6	1760.3
45°	1526.0	1526.0	1526.0	1536.3	1536.3	1541.5	1562.3	1572.8	1583.2	1598.8	1614.4
47.5°	1380.1	1380.1	1385.3	1390.5	1395.8	1406.1	1416.6	1432.2	1447.8	1458.2	1473.9
50°	1244.6	1249.9	1260.3	1270.7	1270.7	1275.9	1291.6	1302.0	1312.4	1328.0	1333.2
52.5°	1114.4	1124.9	1135.4	1140.5	1145.7	1156.2	1161.4	1177.0	1182.2	1197.8	1203.0
55°	994.7	999.9	1015.5	1020.8	1020.8	1031.2	1041.6	1052.0	1067.6	1067.6	1078.1
57.5°	885.3	890.6	901.0	906.1	901.0	916.6	921.8	932.2	937.4	947.9	953.1
60°	775.9	786.4	791.6	791.6	796.9	802.0	812.4	812.4	822.9	833.3	833.3
62.5°	671.8	677.0	682.2	687.5	692.7	687.5	703.1	703.1	713.5	718.8	729.1
65°	572.9	578.1	578.1	583.3	583.3	588.6	588.6	593.7	598.9	609.4	614.6
67.5°	473.9	473.9	473.9	479.2	473.9	479.2	479.2	484.3	484.3	494.7	500.0
70°	385.4	380.1	375.0	375.0	375.0	375.0	369.8	375.0	375.0	380.1	380.1
72.5°	296.9	291.7	286.4	281.2	281.2	276.0	270.9	276.0	276.0	281.2	281.2
75°	223.9	213.5	213.5	213.5	208.3	208.3	208.3	213.5	213.5	213.5	218.8
77.5°	166.7	166.7	161.5	161.5	161.5	166.7	166.7	171.8	171.8	171.8	171.8
80°	125.0	130.2	130.2	130.2	130.2	135.4	135.4	135.4	135.4	140.7	140.7
82.5°	93.7	93.7	93.7	93.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9
85°	57.3	62.5	62.5	57.3	62.5	62.5	62.5	62.5	62.5	62.5	62.5
87.5°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P585254

CATALOG NUMBER: HCC8S80D010BZ-HM86080840-81WWWB

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4	3666.4
2.5°	3603.9	3603.9	3603.9	3603.9	3598.6	3598.6	3598.6	3593.5
5°	3525.7	3525.7	3525.7	3515.4	3520.5	3520.5	3510.2	3515.4
7.5°	3447.6	3442.4	3437.3	3437.3	3432.0	3426.8	3421.6	3426.8
10°	3359.2	3343.5	3343.5	3338.2	3338.2	3327.9	3327.9	3333.1
12.5°	3260.1	3249.8	3249.8	3244.5	3239.3	3234.1	3229.0	3229.0
15°	3161.2	3150.9	3145.6	3140.4	3135.2	3124.8	3129.9	3124.8
17.5°	3062.3	3046.7	3046.7	3041.5	3036.2	3025.8	3025.8	3020.7
20°	2947.6	2942.5	2932.1	2937.3	2932.1	2921.6	2916.5	2916.5
22.5°	2833.1	2833.1	2827.9	2827.9	2822.7	2817.5	2812.3	2812.3
25°	2723.8	2718.5	2723.8	2723.8	2708.1	2708.1	2708.1	2713.3
27.5°	2598.8	2603.9	2598.8	2598.8	2598.8	2598.8	2603.9	2598.8
30°	2473.7	2473.7	2473.7	2478.9	2489.4	2484.2	2484.2	2478.9
32.5°	2338.4	2343.5	2343.5	2348.8	2354.0	2364.4	2364.4	2369.6
35°	2203.0	2213.3	2218.6	2213.3	2229.0	2229.0	2239.4	2239.4
37.5°	2062.3	2067.6	2078.0	2083.1	2093.6	2098.8	2104.1	2104.1
40°	1911.3	1932.1	1937.4	1942.6	1958.2	1958.2	1963.4	1973.9
42.5°	1770.7	1791.6	1796.7	1801.9	1812.4	1828.0	1822.7	1833.2
45°	1635.2	1650.9	1656.2	1661.3	1677.0	1682.2	1682.2	1697.8
47.5°	1489.5	1499.9	1505.0	1515.5	1526.0	1536.3	1546.8	1541.5
50°	1343.7	1359.3	1369.7	1374.8	1390.5	1395.8	1400.9	1406.1
52.5°	1213.5	1223.8	1229.1	1234.3	1249.9	1255.1	1260.3	1270.7
55°	1088.4	1093.6	1104.1	1098.9	1114.4	1119.7	1124.9	1135.4
57.5°	963.4	968.7	973.9	973.9	984.3	994.7	999.9	1005.2
60°	843.7	854.1	859.3	859.3	859.3	869.8	869.8	869.8
62.5°	734.3	734.3	739.6	739.6	749.9	749.9	749.9	749.9
65°	619.7	624.9	630.2	630.2	640.6	635.4	645.7	640.6
67.5°	500.0	500.0	510.3	510.3	505.2	510.3	510.3	510.3
70°	380.1	380.1	385.4	385.4	385.4	385.4	385.4	385.4
72.5°	281.2	281.2	281.2	286.4	281.2	281.2	286.4	281.2
75°	218.8	218.8	218.8	218.8	218.8	218.8	218.8	218.8
77.5°	171.8	171.8	177.0	177.0	177.0	177.0	177.0	177.0
80°	140.7	140.7	140.7	140.7	145.8	140.7	140.7	140.7
82.5°	104.2	98.9	104.2	98.9	104.2	104.2	104.2	104.2
85°	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
87.5°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



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Scaled Data Report



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

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(END OF REPORT)