

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: P585303

Luminaire Tested: **HCC8S80D010BZ-HM86080935-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S80D010BZ-HM86080935-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

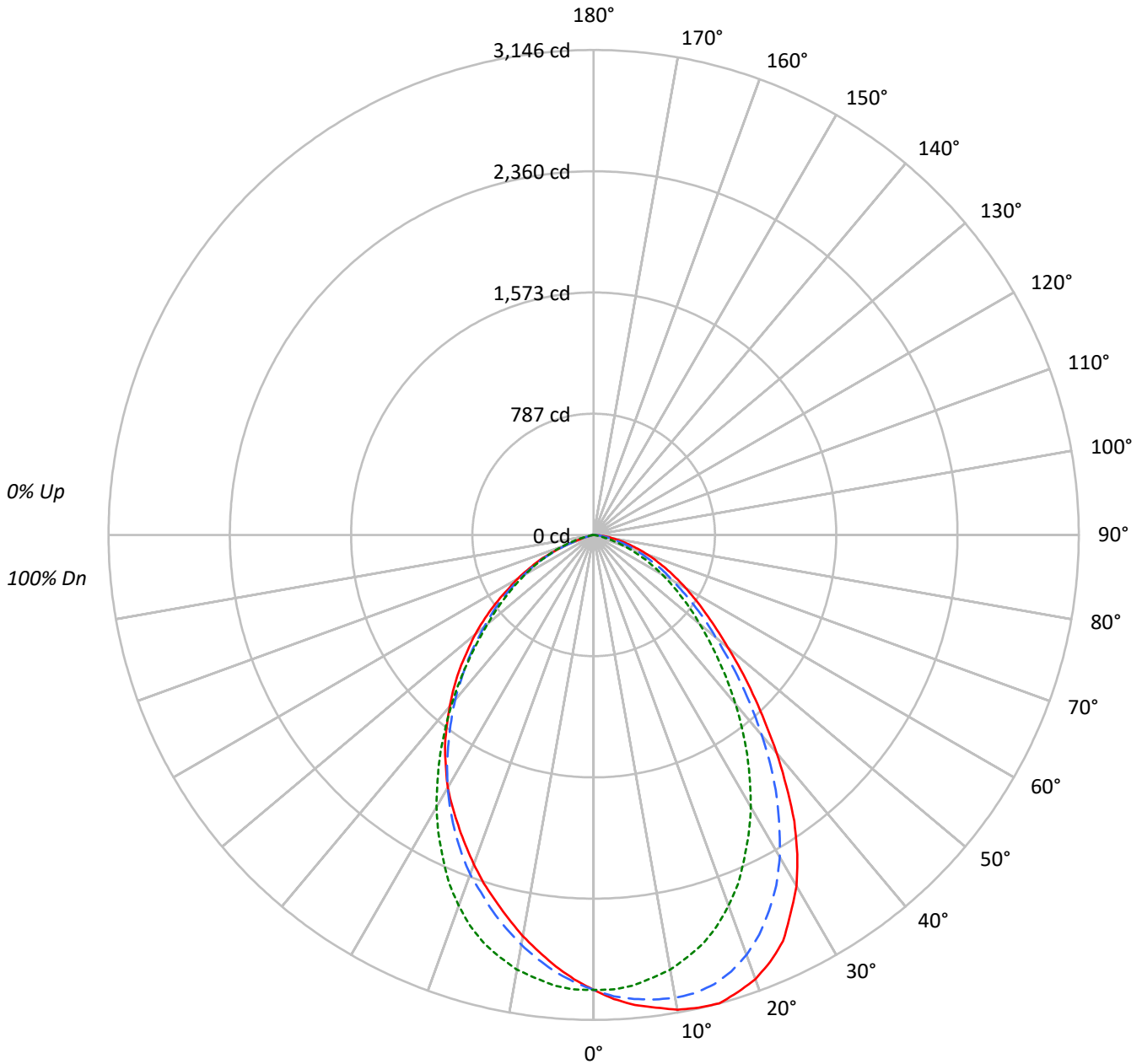
Lumens per Lamp: N/A
Luminaire Lumens: 5497.7 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67								
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59								
5	82	70	63	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53								
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	58	53	49	47								
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43								
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39								
9	62	50	43	37	61	50	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	47	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	91013	91013	91013
5°	94775	90816	86990
10°	97944	89653	82748
15°	100420	87606	78450
20°	100618	83968	74560
25°	98918	78657	70702
30°	93628	72577	67393
35°	85366	65267	63276
40°	74232	57539	58429
45°	63682	49828	53487
50°	54392	42964	48045
55°	47676	36999	41746
60°	42443	31558	35104
65°	37657	25749	28004
70°	33413	19096	15904
75°	27867	9984	4730
80°	21931	3125	781
85°	15603	1557	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.1	5.1
10°-20°	779.5	14.2
20°-30°	1103.3	20.1
30°-40°	1154.3	21.0
40°-50°	962.7	17.5
50°-60°	682.7	12.4
60°-70°	393.2	7.2
70°-80°	126.5	2.3
80°-90°	17.4	0.3
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°	2160.9	39.3
0°-40°	3315.1	60.3
0°-60°	4960.6	90.2
0°-90°	5497.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5497.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2952	2952	2952	2952	2952	
5°	3062	3022	2934	2846	2810	294
15°	3146	3018	2744	2528	2457	885
25°	2907	2691	2312	2126	2078	1327
35°	2268	2069	1734	1641	1681	1406
45°	1460	1341	1143	1156	1226	1132
55°	887	794	688	724	776	801
65°	516	432	353	353	384	516
75°	234	172	84	40	40	253
85°	44	22	4	0	0	55
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°	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5
2.5°	3013.3	3008.9	3004.5	3008.9	3004.5	3008.9	3004.5	3004.5	3000.1	2995.7	2995.7
5°	3061.8	3057.4	3057.4	3057.4	3053.0	3048.6	3048.6	3044.2	3035.3	3030.9	3022.1
7.5°	3092.7	3097.1	3097.1	3097.1	3088.3	3088.3	3079.5	3070.6	3061.8	3053.0	3039.8
10°	3128.0	3128.0	3123.6	3119.1	3110.3	3105.9	3101.5	3092.7	3079.5	3061.8	3048.6
12.5°	3141.2	3141.2	3136.8	3128.0	3123.6	3119.1	3114.7	3101.5	3083.9	3061.8	3044.2
15°	3145.6	3136.8	3132.4	3128.0	3119.1	3105.9	3105.9	3088.3	3066.2	3039.8	3017.7
17.5°	3110.3	3114.7	3105.9	3097.1	3083.9	3075.0	3061.8	3048.6	3022.1	2991.2	2969.2
20°	3066.2	3061.8	3057.4	3044.2	3026.5	3022.1	3008.9	2986.8	2964.8	2929.5	2898.5
22.5°	2995.7	2991.2	2982.4	2973.6	2956.0	2947.1	2933.9	2907.3	2876.5	2841.2	2805.9
25°	2907.3	2898.5	2885.3	2867.6	2854.4	2845.6	2828.0	2801.5	2766.2	2726.5	2691.2
27.5°	2766.2	2779.4	2770.6	2744.2	2730.9	2713.3	2708.9	2673.6	2642.7	2603.0	2563.2
30°	2629.5	2629.5	2616.2	2603.0	2581.0	2567.6	2550.0	2523.5	2492.7	2444.1	2413.3
32.5°	2457.4	2453.0	2435.3	2430.9	2413.3	2386.8	2382.4	2347.1	2316.2	2280.9	2241.1
35°	2267.7	2258.9	2241.1	2227.9	2219.1	2206.0	2192.6	2161.8	2130.9	2095.6	2069.1
37.5°	2051.5	2051.5	2047.1	2025.0	2016.2	2007.4	1994.2	1963.3	1945.6	1910.4	1883.9
40°	1844.1	1839.7	1826.5	1822.0	1813.2	1800.0	1791.2	1773.5	1747.1	1720.6	1694.1
42.5°	1641.2	1645.6	1628.0	1632.4	1614.8	1605.9	1601.5	1575.1	1561.8	1535.4	1513.2
45°	1460.3	1455.9	1447.1	1442.6	1433.8	1425.0	1416.2	1402.9	1380.9	1354.4	1341.2
47.5°	1292.7	1279.5	1279.5	1275.0	1270.6	1253.0	1248.6	1235.3	1222.1	1195.7	1177.9
50°	1133.8	1133.8	1133.8	1129.4	1116.2	1111.8	1102.9	1089.7	1076.5	1058.8	1032.4
52.5°	1005.9	1005.9	1005.9	1001.5	983.8	979.4	975.0	957.4	939.7	926.5	908.9
55°	886.8	891.2	886.8	878.0	864.8	864.8	851.4	842.6	825.0	811.7	794.1
57.5°	785.3	785.3	776.5	772.0	763.2	758.8	750.0	741.2	719.1	705.9	683.8
60°	688.2	683.8	683.8	675.0	666.2	657.4	653.0	639.7	630.9	608.9	591.2
62.5°	600.0	600.0	591.2	591.2	573.6	573.6	569.2	555.9	542.7	520.5	511.7
65°	516.1	516.1	511.7	507.3	494.1	489.7	485.3	472.0	458.8	445.6	432.3
67.5°	441.2	441.2	432.3	427.9	419.1	414.7	405.9	397.0	383.8	370.6	357.4
70°	370.6	366.2	361.8	357.4	348.5	344.1	335.3	326.5	313.2	304.4	291.2
72.5°	300.0	300.0	295.6	286.8	282.4	278.0	273.6	264.7	251.5	238.3	229.4
75°	233.9	233.9	233.9	225.0	216.2	211.8	211.8	203.0	194.2	180.8	172.0
77.5°	180.8	176.4	172.0	172.0	163.2	158.9	154.5	150.1	136.7	132.3	123.5
80°	123.5	127.9	123.5	119.1	114.7	110.3	110.3	101.4	97.0	88.2	79.4
82.5°	83.8	79.4	79.4	75.0	75.0	70.6	70.6	61.7	57.3	52.9	48.5
85°	44.1	44.1	39.7	39.7	39.7	35.3	35.3	30.9	30.9	26.5	22.1
87.5°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	8.8	8.8	8.8
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°	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5
2.5°	2991.2	2982.4	2978.0	2978.0	2973.6	2969.2	2964.8	2960.4	2951.5	2951.5	2942.7
5°	3013.3	3004.5	3000.1	2986.8	2978.0	2978.0	2960.4	2956.0	2942.7	2933.9	2925.1
7.5°	3030.9	3013.3	3000.1	2986.8	2978.0	2969.2	2951.5	2933.9	2916.3	2898.5	2889.7
10°	3030.9	3013.3	2991.2	2969.2	2960.4	2951.5	2929.5	2902.9	2880.9	2863.2	2841.2
12.5°	3022.1	2995.7	2969.2	2951.5	2933.9	2920.7	2894.1	2867.6	2841.2	2805.9	2788.3
15°	2995.7	2960.4	2933.9	2902.9	2889.7	2867.6	2845.6	2805.9	2775.0	2744.2	2722.1
17.5°	2942.7	2898.5	2867.6	2836.8	2814.7	2801.5	2766.2	2730.9	2695.6	2660.4	2633.9
20°	2863.2	2823.5	2788.3	2748.6	2730.9	2713.3	2669.2	2633.9	2598.6	2558.8	2532.3
22.5°	2766.2	2726.5	2678.0	2647.1	2620.7	2598.6	2558.8	2519.1	2483.8	2448.5	2413.3
25°	2647.1	2607.4	2563.2	2514.7	2497.1	2475.0	2430.9	2391.2	2351.5	2311.8	2280.9
27.5°	2519.1	2466.2	2430.9	2378.0	2360.3	2338.3	2289.8	2245.7	2210.4	2179.4	2144.1
30°	2364.7	2325.0	2276.5	2227.9	2210.4	2188.2	2148.5	2108.8	2073.5	2038.3	2003.0
32.5°	2197.0	2157.3	2108.8	2073.5	2047.1	2029.4	1989.7	1954.5	1919.2	1883.9	1852.9
35°	2020.6	1976.5	1941.2	1905.8	1883.9	1861.7	1822.0	1791.2	1764.7	1733.8	1703.0
37.5°	1839.7	1808.8	1773.5	1733.8	1711.8	1694.1	1663.3	1628.0	1605.9	1579.5	1557.4
40°	1663.3	1628.0	1597.1	1561.8	1544.2	1531.0	1500.0	1473.5	1451.5	1429.4	1416.2
42.5°	1482.3	1451.5	1420.6	1398.5	1385.3	1372.1	1350.0	1319.1	1305.9	1283.9	1270.6
45°	1314.7	1288.3	1266.2	1235.3	1226.5	1217.7	1191.1	1169.1	1155.9	1142.6	1133.8
47.5°	1155.9	1138.2	1111.8	1094.1	1080.9	1072.1	1054.4	1036.8	1023.5	1014.7	1005.9
50°	1019.1	997.1	979.4	961.8	953.0	939.7	922.1	913.3	904.5	895.6	895.6
52.5°	891.2	869.2	851.4	838.2	829.4	820.6	807.3	802.9	794.1	794.1	789.7
55°	772.0	758.8	741.2	723.5	719.1	714.7	705.9	697.1	692.7	688.2	692.7
57.5°	670.6	657.4	639.7	626.5	622.1	617.7	613.3	604.4	600.0	600.0	600.0
60°	578.0	564.7	551.5	538.3	538.3	529.5	525.1	520.5	516.1	511.7	511.7
62.5°	494.1	480.8	467.6	458.8	454.4	450.0	441.2	436.7	432.3	432.3	427.9
65°	419.1	401.5	397.0	383.8	379.4	375.0	370.6	361.8	357.4	352.9	348.5
67.5°	344.1	335.3	322.1	313.2	308.8	304.4	300.0	291.2	286.8	282.4	273.6
70°	278.0	269.1	260.3	251.5	247.1	242.7	233.9	225.0	220.6	211.8	198.6
72.5°	216.2	207.4	198.6	189.8	185.2	180.8	172.0	163.2	154.5	145.5	136.7
75°	163.2	154.5	141.1	132.3	127.9	127.9	114.7	105.9	97.0	83.8	75.0
77.5°	114.7	101.4	97.0	88.2	83.8	75.0	66.2	57.3	48.5	44.1	35.3
80°	75.0	66.2	57.3	52.9	48.5	44.1	39.7	30.9	22.1	17.6	13.2
82.5°	44.1	39.7	35.3	30.9	26.5	22.1	17.6	17.6	13.2	8.8	4.4
85°	22.1	17.6	13.2	13.2	8.8	8.8	8.8	4.4	4.4	4.4	4.4
87.5°	8.8	4.4	4.4	4.4	4.4	4.4	4.4	0.0	0.0	0.0	0.0
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°	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5
2.5°	2938.3	2933.9	2929.5	2925.1	2925.1	2916.3	2916.3	2911.9	2902.9	2898.5	2898.5
5°	2911.9	2898.5	2889.7	2885.3	2880.9	2867.6	2863.2	2854.4	2845.6	2836.8	2832.4
7.5°	2872.1	2850.0	2841.2	2836.8	2823.5	2810.3	2801.5	2788.3	2775.0	2761.8	2757.4
10°	2823.5	2801.5	2779.4	2770.6	2757.4	2748.6	2730.9	2713.3	2700.0	2686.8	2673.6
12.5°	2761.8	2735.3	2713.3	2704.5	2691.2	2673.6	2647.1	2638.3	2616.2	2607.4	2589.8
15°	2691.2	2660.4	2638.3	2625.1	2611.8	2585.4	2567.6	2550.0	2527.9	2519.1	2501.5
17.5°	2603.0	2567.6	2545.6	2532.3	2523.5	2501.5	2475.0	2453.0	2430.9	2422.1	2408.9
20°	2497.1	2475.0	2444.1	2430.9	2422.1	2395.6	2369.2	2360.3	2342.7	2325.0	2311.8
22.5°	2378.0	2355.9	2325.0	2311.8	2307.4	2285.4	2263.3	2250.1	2236.7	2223.5	2210.4
25°	2254.5	2227.9	2201.6	2192.6	2183.8	2166.2	2148.5	2139.7	2126.5	2117.7	2108.8
27.5°	2122.1	2095.6	2073.5	2060.3	2051.5	2038.3	2029.4	2020.6	2011.8	2003.0	1998.6
30°	1980.9	1954.5	1936.8	1928.0	1919.2	1914.8	1901.4	1897.0	1892.7	1883.9	1888.3
32.5°	1839.7	1817.6	1800.0	1786.8	1786.8	1777.9	1773.5	1773.5	1769.1	1769.1	1769.1
35°	1685.3	1672.1	1658.9	1654.4	1650.0	1645.6	1641.2	1645.6	1641.2	1645.6	1650.0
37.5°	1544.2	1531.0	1522.0	1517.6	1513.2	1517.6	1513.2	1513.2	1517.6	1526.4	1531.0
40°	1398.5	1389.7	1380.9	1385.3	1380.9	1380.9	1380.9	1394.1	1398.5	1402.9	1407.4
42.5°	1261.8	1253.0	1248.6	1248.6	1253.0	1248.6	1257.4	1261.8	1270.6	1283.9	1292.7
45°	1129.4	1125.0	1125.0	1129.4	1125.0	1133.8	1133.8	1142.6	1155.9	1164.7	1173.5
47.5°	1005.9	1005.9	1005.9	1010.3	1010.3	1014.7	1023.5	1028.0	1036.8	1045.6	1054.4
50°	891.2	895.6	900.0	900.0	900.0	908.9	917.7	922.1	926.5	930.9	944.2
52.5°	789.7	794.1	794.1	798.5	802.9	807.3	811.7	820.6	825.0	833.8	838.2
55°	692.7	692.7	701.5	705.9	705.9	705.9	714.7	714.7	723.5	727.9	736.8
57.5°	600.0	604.4	604.4	608.9	608.9	613.3	617.7	622.1	626.5	630.9	635.3
60°	511.7	511.7	511.7	516.1	520.5	525.1	520.5	529.5	529.5	538.3	542.7
62.5°	427.9	432.3	432.3	432.3	432.3	432.3	432.3	436.7	441.2	445.6	450.0
65°	348.5	348.5	348.5	344.1	348.5	344.1	348.5	352.9	352.9	357.4	361.8
67.5°	269.1	269.1	260.3	260.3	264.7	264.7	264.7	264.7	260.3	269.1	269.1
70°	194.2	189.8	185.2	180.8	180.8	176.4	176.4	172.0	172.0	172.0	172.0
72.5°	127.9	119.1	110.3	105.9	101.4	101.4	92.6	88.2	92.6	92.6	92.6
75°	66.2	57.3	52.9	48.5	44.1	44.1	39.7	39.7	39.7	39.7	39.7
77.5°	26.5	22.1	17.6	17.6	13.2	13.2	13.2	13.2	13.2	13.2	13.2
80°	8.8	8.8	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
82.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
85°	4.4	0.0	0.0	4.4	0.0	4.4	4.4	4.4	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P585303

CATALOG NUMBER: HCC8S80D010BZ-HM86080935-81WWBB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5	2951.5
2.5°	2894.1	2894.1	2889.7	2894.1	2885.3	2889.7	2885.3	2885.3
5°	2828.0	2819.1	2819.1	2819.1	2814.7	2814.7	2810.3	2810.3
7.5°	2748.6	2744.2	2739.7	2735.3	2730.9	2726.5	2726.5	2726.5
10°	2669.2	2660.4	2660.4	2655.9	2647.1	2642.7	2642.7	2642.7
12.5°	2576.6	2572.0	2567.6	2567.6	2550.0	2554.4	2550.0	2550.0
15°	2488.2	2483.8	2483.8	2470.6	2461.8	2461.8	2461.8	2457.4
17.5°	2395.6	2391.2	2386.8	2378.0	2369.2	2369.2	2364.7	2369.2
20°	2298.6	2294.2	2285.4	2285.4	2280.9	2276.5	2267.7	2272.1
22.5°	2201.6	2192.6	2188.2	2188.2	2183.8	2183.8	2175.0	2175.0
25°	2100.0	2095.6	2091.2	2095.6	2086.8	2086.8	2078.0	2078.0
27.5°	1994.2	1989.7	1989.7	1989.7	1985.3	1989.7	1985.3	1985.3
30°	1888.3	1888.3	1883.9	1883.9	1888.3	1883.9	1888.3	1892.7
32.5°	1773.5	1773.5	1777.9	1777.9	1782.4	1782.4	1782.4	1782.4
35°	1654.4	1663.3	1663.3	1667.7	1672.1	1676.5	1676.5	1680.9
37.5°	1544.2	1548.6	1553.0	1557.4	1566.2	1566.2	1566.2	1566.2
40°	1425.0	1429.4	1438.2	1433.8	1451.5	1455.9	1451.5	1451.5
42.5°	1301.5	1310.3	1314.7	1323.6	1328.0	1336.8	1341.2	1341.2
45°	1186.7	1191.1	1200.1	1208.9	1213.3	1226.5	1226.5	1226.5
47.5°	1067.6	1076.5	1080.9	1089.7	1094.1	1107.3	1111.8	1107.3
50°	953.0	961.8	970.6	970.6	983.8	988.3	997.1	1001.5
52.5°	842.6	847.0	855.8	860.4	869.2	878.0	882.4	886.8
55°	736.8	741.2	750.0	750.0	763.2	767.6	776.5	776.5
57.5°	639.7	644.1	653.0	648.5	657.4	666.2	666.2	661.8
60°	547.1	547.1	547.1	555.9	560.3	564.7	569.2	569.2
62.5°	450.0	458.8	463.2	463.2	467.6	472.0	472.0	467.6
65°	361.8	370.6	375.0	375.0	379.4	379.4	379.4	383.8
67.5°	273.6	273.6	273.6	278.0	273.6	273.6	273.6	273.6
70°	172.0	172.0	172.0	172.0	167.6	172.0	172.0	176.4
72.5°	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
75°	39.7	39.7	39.7	44.1	39.7	39.7	39.7	39.7
77.5°	17.6	13.2	17.6	17.6	13.2	13.2	13.2	13.2
80°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
82.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
85°	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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— 0°-180° - - 45°-225° - - - - 90°-270°

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