

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: P585160

Luminaire Tested: **HCC8S60D010SL-HM86080935-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S60D010SL-HM86080935-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

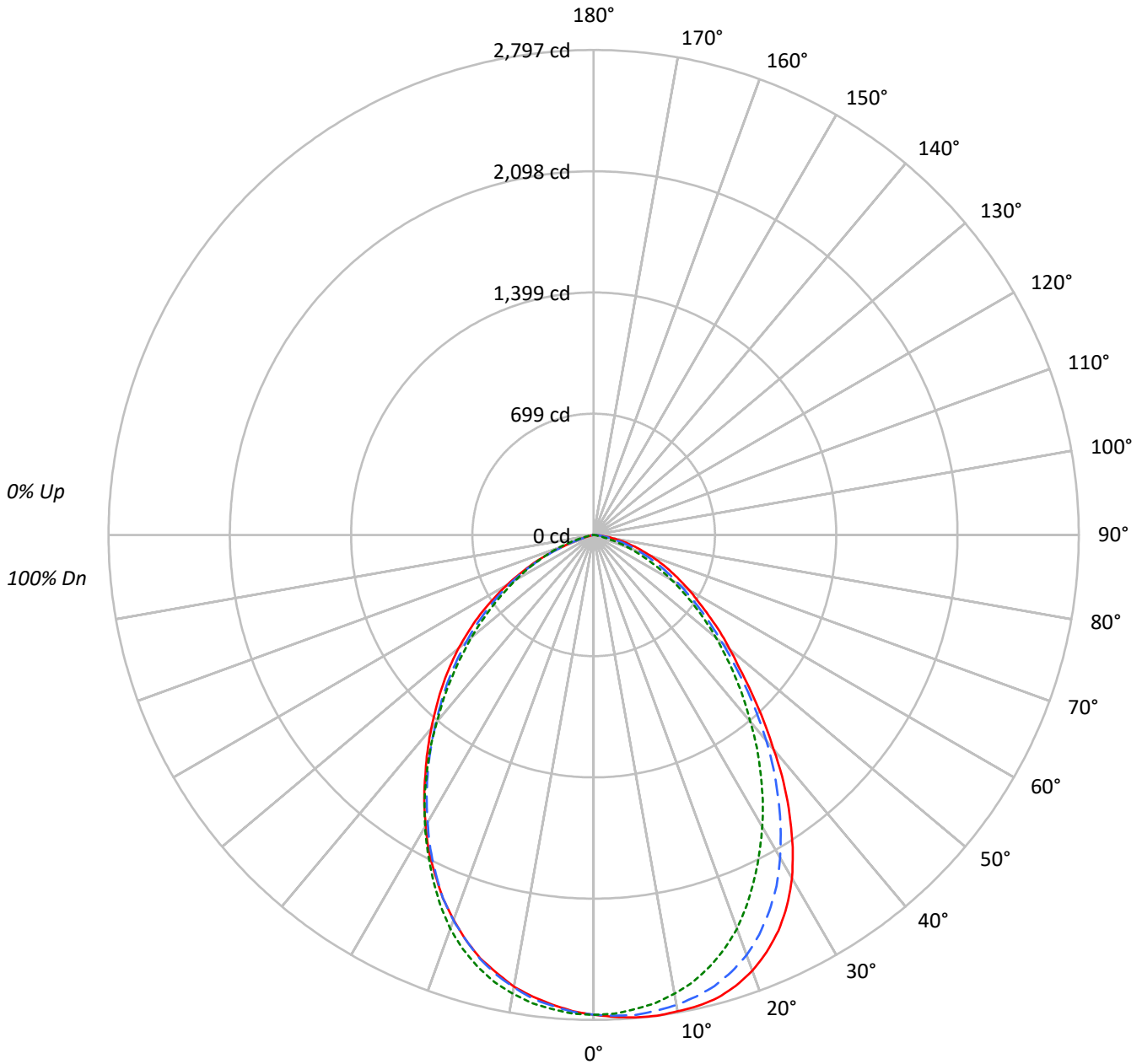
Lumens per Lamp: N/A
Luminaire Lumens: 5260.1 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 56
Input Voltage (V): NR
Input Current (A_{in}): 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	85	100	94	89	84	91	86	82	87	84	81	84	82	79	77								
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69	67								
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	69	65	61	59								
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	85346	85346	85346
5°	86470	84981	84183
10°	87354	84117	82842
15°	88238	82339	80685
20°	87791	79302	77484
25°	85744	74554	73550
30°	81443	69205	68942
35°	74140	63152	63709
40°	65002	56521	58606
45°	56077	50277	53818
50°	49100	44140	48745
55°	43504	37945	42912
60°	39193	31903	35554
65°	35322	25618	27231
70°	30979	18654	14994
75°	26414	9686	3956
80°	20333	2628	657
85°	13055	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.1	5.0
10°-20°	734.1	14.0
20°-30°	1041.9	19.8
30°-40°	1096.8	20.9
40°-50°	933.0	17.7
50°-60°	674.2	12.8
60°-70°	383.5	7.3
70°-80°	120.8	2.3
80°-90°	14.7	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°	2037.1	38.7
0°-40°	3133.9	59.6
0°-60°	4741.1	90.1
0°-90°	5260.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5260.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2768	2768	2768	2768	2768	
5°	2794	2779	2745	2727	2720	267
15°	2764	2694	2579	2531	2527	778
25°	2520	2394	2191	2154	2162	1154
35°	1970	1855	1678	1666	1692	1226
45°	1286	1238	1153	1182	1234	1000
55°	809	750	706	746	798	730
65°	484	418	351	347	373	480
75°	222	170	81	37	33	239
85°	37	22	0	0	0	48
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°	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7
2.5°	2782.5	2786.2	2778.8	2778.8	2786.2	2778.8	2782.5	2782.5	2778.8	2778.8	2775.1
5°	2793.5	2789.8	2789.8	2789.8	2793.5	2786.2	2782.5	2786.2	2778.8	2778.8	2778.8
7.5°	2797.2	2797.2	2793.5	2789.8	2789.8	2789.8	2786.2	2782.5	2778.8	2771.4	2767.7
10°	2789.8	2789.8	2793.5	2786.2	2786.2	2778.8	2778.8	2771.4	2771.4	2764.0	2752.9
12.5°	2782.5	2778.8	2778.8	2771.4	2771.4	2764.0	2764.0	2752.9	2749.1	2738.1	2727.0
15°	2764.0	2760.3	2752.9	2749.1	2745.4	2741.7	2734.4	2730.7	2719.6	2704.8	2693.8
17.5°	2727.0	2723.3	2719.6	2712.2	2704.8	2701.1	2697.5	2686.4	2671.6	2660.5	2642.0
20°	2675.3	2671.6	2671.6	2660.5	2656.9	2645.7	2642.0	2627.2	2616.1	2594.0	2579.2
22.5°	2605.1	2608.8	2601.4	2594.0	2586.6	2575.5	2568.2	2553.4	2534.8	2512.7	2494.2
25°	2520.1	2523.8	2516.4	2509.0	2497.9	2490.5	2483.2	2461.0	2442.4	2416.6	2394.5
27.5°	2412.9	2412.9	2412.9	2405.5	2387.1	2383.4	2376.0	2353.9	2327.9	2305.8	2283.6
30°	2287.3	2283.6	2283.6	2272.5	2265.2	2250.4	2239.2	2220.8	2202.3	2176.5	2150.6
32.5°	2135.8	2139.4	2128.4	2121.0	2109.9	2109.9	2095.2	2080.4	2058.2	2032.3	2006.5
35°	1969.5	1973.2	1965.9	1962.2	1943.6	1939.9	1936.2	1917.8	1903.0	1884.5	1855.0
37.5°	1799.5	1795.8	1792.2	1792.2	1781.1	1773.7	1766.3	1755.2	1733.0	1718.2	1703.5
40°	1614.8	1614.8	1614.8	1611.1	1607.4	1600.0	1596.3	1588.9	1574.2	1559.4	1548.2
42.5°	1448.4	1448.4	1444.7	1441.1	1433.7	1437.4	1430.0	1422.6	1407.8	1396.8	1389.4
45°	1285.9	1285.9	1285.9	1289.6	1282.2	1271.2	1271.2	1263.8	1256.4	1248.9	1237.8
47.5°	1141.8	1152.9	1145.4	1141.8	1145.4	1130.7	1130.7	1123.3	1115.9	1108.5	1093.8
50°	1023.5	1023.5	1023.5	1016.1	1012.5	1012.5	1001.4	994.0	990.3	982.9	968.2
52.5°	916.4	909.0	909.0	905.3	901.6	894.2	894.2	886.8	872.1	864.7	853.6
55°	809.2	809.2	805.5	801.8	798.2	794.5	790.8	779.7	772.3	761.2	750.2
57.5°	713.1	720.5	716.8	709.5	702.1	702.1	694.7	687.3	676.2	665.2	654.1
60°	635.5	631.8	631.8	628.1	620.8	617.1	613.4	602.3	591.2	580.2	569.1
62.5°	554.3	554.3	554.3	546.8	539.4	535.8	532.1	524.7	509.9	498.8	491.5
65°	484.1	480.4	476.7	473.0	469.3	461.9	458.2	450.9	439.7	428.6	417.5
67.5°	413.8	410.1	410.1	406.5	395.4	391.7	391.7	380.6	369.5	358.5	347.3
70°	343.6	343.6	343.6	336.2	332.5	328.8	325.1	317.8	306.7	295.6	284.5
72.5°	284.5	280.9	280.9	277.2	266.1	262.4	258.7	251.3	240.1	232.8	225.4
75°	221.7	221.7	218.0	214.3	210.6	206.9	203.2	195.8	184.8	173.7	170.0
77.5°	170.0	166.3	166.3	162.6	155.2	151.6	151.6	144.1	133.0	125.6	118.2
80°	114.5	118.2	114.5	110.8	107.2	103.5	99.8	96.1	88.7	81.3	73.9
82.5°	70.2	73.9	70.2	70.2	66.6	62.9	62.9	55.5	51.8	48.0	44.3
85°	36.9	36.9	36.9	36.9	33.2	33.2	33.2	29.5	25.8	22.1	22.1
87.5°	11.1	14.8	11.1	11.1	11.1	11.1	11.1	11.1	7.4	7.4	7.4
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°	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7
2.5°	2778.8	2775.1	2771.4	2771.4	2771.4	2771.4	2771.4	2767.7	2764.0	2764.0	2764.0
5°	2771.4	2771.4	2771.4	2767.7	2764.0	2764.0	2756.6	2752.9	2749.1	2745.4	2741.7
7.5°	2764.0	2756.6	2752.9	2749.1	2745.4	2745.4	2738.1	2730.7	2730.7	2723.3	2715.9
10°	2741.7	2738.1	2730.7	2723.3	2719.6	2715.9	2708.5	2697.5	2693.8	2686.4	2679.0
12.5°	2715.9	2708.5	2701.1	2686.4	2682.7	2679.0	2664.2	2653.2	2645.7	2642.0	2623.5
15°	2682.7	2667.9	2656.9	2638.3	2634.6	2627.2	2616.1	2605.1	2590.3	2579.2	2571.9
17.5°	2623.5	2608.8	2590.3	2571.9	2564.5	2564.5	2545.9	2531.1	2512.7	2505.3	2490.5
20°	2553.4	2534.8	2520.1	2497.9	2486.8	2475.8	2464.7	2442.4	2427.7	2416.6	2398.1
22.5°	2472.1	2446.1	2427.7	2405.5	2387.1	2376.0	2357.5	2339.0	2320.5	2309.5	2294.7
25°	2368.6	2346.4	2316.8	2294.7	2283.6	2268.9	2246.6	2228.1	2209.7	2191.2	2183.8
27.5°	2254.1	2224.4	2198.6	2172.8	2161.7	2150.6	2124.7	2102.5	2087.8	2069.3	2061.9
30°	2128.4	2098.8	2069.3	2047.1	2036.0	2017.5	2002.8	1976.9	1958.5	1943.6	1925.1
32.5°	1984.3	1962.2	1936.2	1903.0	1895.6	1880.8	1858.7	1847.5	1825.4	1814.3	1799.5
35°	1829.1	1814.3	1788.5	1762.6	1751.6	1744.1	1725.6	1703.5	1688.7	1677.6	1670.2
37.5°	1681.3	1662.9	1636.9	1618.5	1611.1	1600.0	1577.9	1566.8	1552.0	1544.5	1529.8
40°	1522.4	1503.9	1485.5	1474.4	1463.3	1455.9	1441.1	1430.0	1415.2	1404.1	1400.5
42.5°	1367.2	1356.2	1341.3	1326.5	1322.8	1311.8	1304.4	1293.3	1282.2	1278.5	1267.5
45°	1226.8	1215.7	1200.9	1186.2	1182.5	1175.1	1171.4	1160.3	1152.9	1152.9	1152.9
47.5°	1086.4	1075.3	1060.6	1053.2	1056.9	1042.0	1042.0	1038.3	1030.9	1030.9	1034.6
50°	960.8	945.9	942.2	934.8	927.4	920.1	923.8	912.7	912.7	920.1	916.4
52.5°	842.4	827.7	824.0	816.6	812.9	812.9	809.2	809.2	805.5	809.2	809.2
55°	735.3	724.2	716.8	709.5	705.8	705.8	705.8	702.1	698.4	705.8	709.5
57.5°	639.2	635.5	628.1	617.1	613.4	609.7	606.0	606.0	606.0	606.0	609.7
60°	554.3	546.8	539.4	528.4	528.4	524.7	521.0	517.3	517.3	517.3	517.3
62.5°	480.4	469.3	458.2	450.9	447.1	443.4	439.7	432.3	432.3	432.3	432.3
65°	406.5	395.4	388.0	380.6	373.2	373.2	365.9	362.2	354.8	351.1	343.6
67.5°	336.2	328.8	321.5	310.4	306.7	303.0	295.6	291.9	280.9	277.2	273.5
70°	273.5	262.4	255.0	247.5	243.8	236.4	229.1	221.7	214.3	206.9	199.5
72.5°	214.3	203.2	195.8	188.5	181.1	181.1	170.0	162.6	151.6	144.1	133.0
75°	158.9	147.8	140.4	129.3	125.6	121.9	110.8	103.5	92.4	81.3	73.9
77.5°	107.2	99.8	92.4	81.3	73.9	73.9	62.9	55.5	48.0	36.9	33.2
80°	66.6	59.2	51.8	44.3	44.3	36.9	33.2	25.8	18.5	14.8	11.1
82.5°	36.9	33.2	29.5	22.1	22.1	18.5	14.8	11.1	7.4	3.7	3.7
85°	18.5	14.8	11.1	11.1	7.4	7.4	7.4	3.7	3.7	0.0	0.0
87.5°	7.4	3.7	3.7	3.7	3.7	3.7	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

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7
2.5°	2760.3	2760.3	2756.6	2756.6	2756.6	2752.9	2756.6	2752.9	2752.9	2752.9	2756.6
5°	2745.4	2738.1	2738.1	2734.4	2734.4	2730.7	2734.4	2730.7	2727.0	2723.3	2727.0
7.5°	2715.9	2708.5	2704.8	2701.1	2701.1	2701.1	2697.5	2693.8	2697.5	2686.4	2693.8
10°	2675.3	2671.6	2664.2	2660.5	2656.9	2660.5	2656.9	2649.4	2649.4	2649.4	2645.7
12.5°	2623.5	2616.1	2612.5	2608.8	2601.4	2601.4	2605.1	2597.7	2597.7	2590.3	2590.3
15°	2560.8	2553.4	2545.9	2545.9	2538.5	2538.5	2534.8	2534.8	2531.1	2527.4	2527.4
17.5°	2483.2	2472.1	2464.7	2468.4	2464.7	2461.0	2461.0	2453.6	2449.8	2453.6	2453.6
20°	2390.8	2383.4	2376.0	2379.7	2372.3	2368.6	2372.3	2361.2	2364.9	2364.9	2364.9
22.5°	2287.3	2283.6	2272.5	2272.5	2265.2	2261.5	2265.2	2265.2	2268.9	2265.2	2265.2
25°	2172.8	2165.4	2158.0	2158.0	2154.3	2150.6	2154.3	2158.0	2154.3	2158.0	2158.0
27.5°	2050.9	2039.7	2039.7	2032.3	2032.3	2036.0	2032.3	2036.0	2039.7	2039.7	2047.1
30°	1917.8	1914.1	1910.4	1906.7	1906.7	1910.4	1910.4	1910.4	1914.1	1921.4	1921.4
32.5°	1792.2	1784.8	1777.4	1777.4	1784.8	1781.1	1784.8	1784.8	1792.2	1792.2	1799.5
35°	1655.5	1655.5	1648.0	1651.8	1651.8	1651.8	1651.8	1659.2	1666.5	1670.2	1677.6
37.5°	1529.8	1518.7	1522.4	1522.4	1526.1	1522.4	1533.4	1533.4	1540.8	1540.8	1548.2
40°	1393.1	1393.1	1396.8	1393.1	1396.8	1396.8	1404.1	1411.5	1415.2	1422.6	1426.3
42.5°	1263.8	1271.2	1263.8	1267.5	1271.2	1274.9	1278.5	1282.2	1297.0	1304.4	1315.5
45°	1145.4	1149.1	1152.9	1156.6	1152.9	1160.3	1164.0	1171.4	1182.5	1186.2	1189.8
47.5°	1030.9	1034.6	1038.3	1042.0	1042.0	1049.4	1053.2	1060.6	1067.9	1071.6	1075.3
50°	920.1	927.4	931.1	931.1	934.8	942.2	949.6	949.6	957.1	968.2	971.9
52.5°	820.3	820.3	827.7	831.4	835.1	835.1	846.1	849.8	853.6	861.0	868.4
55°	709.5	720.5	724.2	724.2	731.6	739.0	742.7	746.4	746.4	761.2	761.2
57.5°	613.4	617.1	624.5	624.5	624.5	635.5	635.5	642.9	646.6	650.4	657.8
60°	517.3	524.7	524.7	528.4	524.7	532.1	535.8	543.1	546.8	550.6	554.3
62.5°	428.6	428.6	432.3	432.3	432.3	432.3	439.7	439.7	447.1	450.9	454.6
65°	343.6	343.6	343.6	343.6	343.6	343.6	343.6	343.6	347.3	347.3	354.8
67.5°	266.1	262.4	255.0	258.7	255.0	255.0	251.3	251.3	255.0	255.0	262.4
70°	192.2	188.5	181.1	181.1	177.4	173.7	170.0	166.3	162.6	162.6	162.6
72.5°	125.6	118.2	107.2	103.5	103.5	96.1	88.7	85.0	85.0	85.0	85.0
75°	62.9	55.5	48.0	44.3	44.3	36.9	40.6	36.9	36.9	36.9	36.9
77.5°	25.8	18.5	14.8	14.8	14.8	11.1	11.1	11.1	11.1	11.1	11.1
80°	7.4	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
82.5°	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	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	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



TEST NUMBER: P585160

CATALOG NUMBER: HCC8S60D010SL-HM86080935-81RWWC

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7
2.5°	2752.9	2752.9	2745.4	2749.1	2749.1	2749.1	2749.1	2749.1
5°	2719.6	2723.3	2719.6	2723.3	2723.3	2719.6	2719.6	2719.6
7.5°	2686.4	2690.1	2686.4	2690.1	2690.1	2690.1	2686.4	2686.4
10°	2645.7	2645.7	2645.7	2645.7	2645.7	2642.0	2645.7	2645.7
12.5°	2590.3	2590.3	2590.3	2594.0	2594.0	2590.3	2590.3	2586.6
15°	2531.1	2523.8	2527.4	2531.1	2527.4	2527.4	2527.4	2527.4
17.5°	2449.8	2453.6	2449.8	2449.8	2449.8	2449.8	2453.6	2449.8
20°	2364.9	2364.9	2368.6	2364.9	2364.9	2364.9	2364.9	2361.2
22.5°	2268.9	2265.2	2265.2	2268.9	2268.9	2265.2	2268.9	2268.9
25°	2161.7	2165.4	2161.7	2161.7	2165.4	2165.4	2165.4	2161.7
27.5°	2047.1	2050.9	2054.6	2050.9	2050.9	2050.9	2054.6	2058.2
30°	1928.8	1936.2	1928.8	1928.8	1936.2	1932.5	1936.2	1936.2
32.5°	1803.2	1814.3	1806.9	1814.3	1814.3	1818.0	1814.3	1818.0
35°	1677.6	1688.7	1688.7	1688.7	1692.4	1696.1	1696.1	1692.4
37.5°	1559.4	1563.1	1563.1	1570.5	1574.2	1577.9	1577.9	1574.2
40°	1437.4	1444.7	1448.4	1448.4	1448.4	1455.9	1463.3	1455.9
42.5°	1319.1	1322.8	1326.5	1326.5	1333.9	1337.6	1341.3	1341.3
45°	1204.6	1212.0	1215.7	1219.4	1223.1	1230.4	1226.8	1234.1
47.5°	1086.4	1097.5	1101.2	1104.8	1112.2	1115.9	1119.6	1123.3
50°	979.2	986.6	986.6	994.0	1005.1	1005.1	1012.5	1016.1
52.5°	872.1	875.8	879.5	883.2	890.5	897.9	897.9	905.3
55°	768.6	772.3	772.3	776.0	779.7	794.5	798.2	798.2
57.5°	661.5	661.5	668.9	672.5	676.2	683.6	683.6	683.6
60°	558.0	561.7	561.7	565.4	569.1	576.5	580.2	576.5
62.5°	454.6	458.2	458.2	461.9	469.3	473.0	469.3	469.3
65°	358.5	362.2	362.2	365.9	373.2	373.2	369.5	373.2
67.5°	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4
70°	166.3	162.6	158.9	162.6	162.6	162.6	158.9	166.3
72.5°	81.3	85.0	85.0	85.0	85.0	85.0	85.0	81.3
75°	36.9	36.9	33.2	33.2	33.2	36.9	36.9	33.2
77.5°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
80°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	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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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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

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