

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: P585168

Luminaire Tested: **HCC8W60D010BZ-HM86080935-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W60D010BZ-HM86080935-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

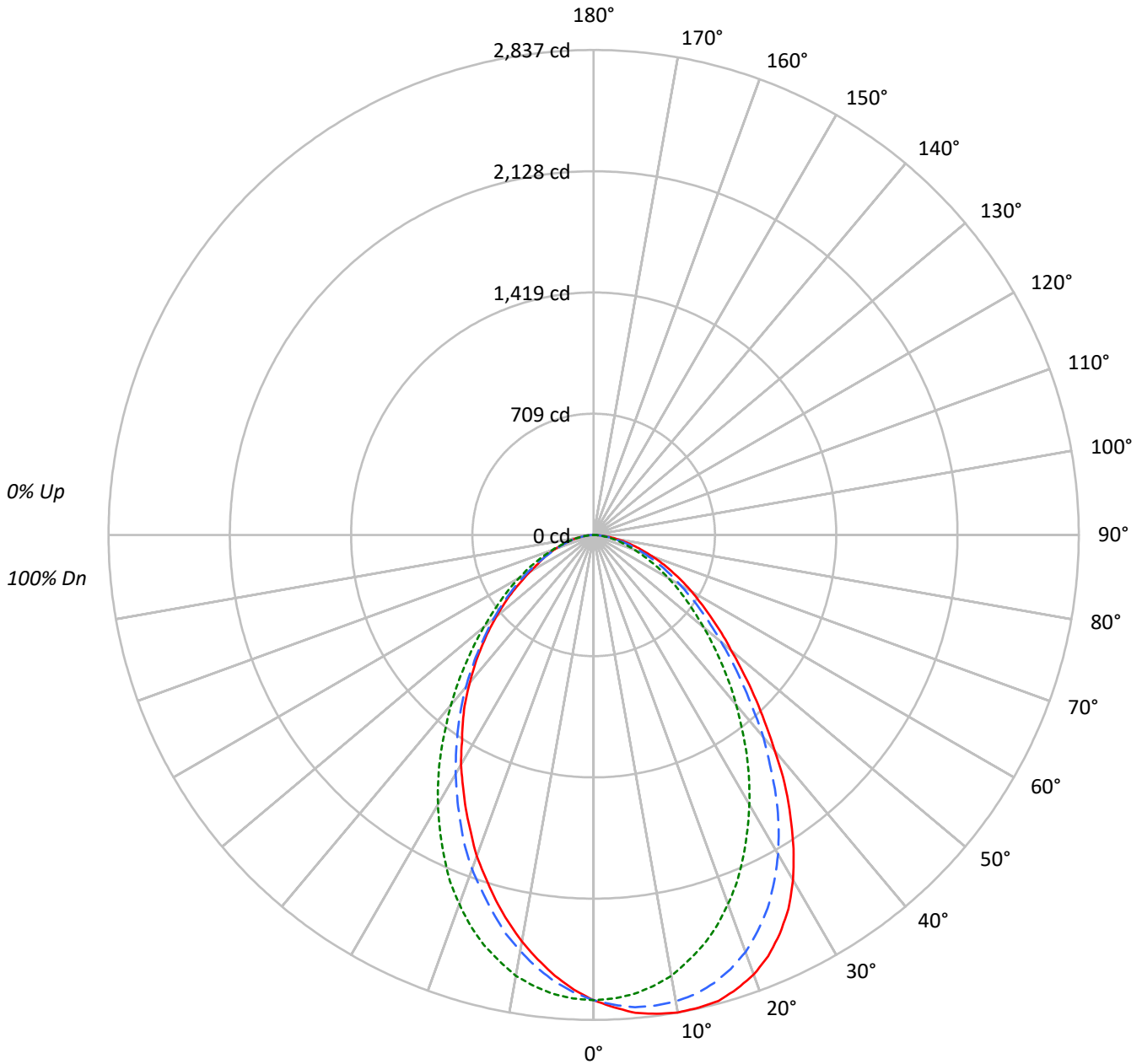
Lumens per Lamp: N/A
Luminaire Lumens: 5023.7 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 56
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	93	91	89	87								
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76								
3	94	85	78	72	92	83	77	71	81	75	70	78	73	69	75	71	68	66								
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	68	64	60	58								
5	81	69	61	55	79	68	61	55	66	60	54	64	59	54	63	57	53	51								
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46								
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	41								
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38								
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34								
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	83936	83936	83936
5°	86888	83458	80146
10°	88820	81997	75637
15°	90083	79236	70626
20°	89812	75387	65572
25°	87592	70501	60195
30°	82985	64836	55233
35°	75495	58672	50191
40°	66310	52185	45346
45°	57821	45903	40430
50°	50319	40220	35610
55°	44875	35343	30972
60°	40772	30978	26427
65°	36650	26946	23984
70°	32629	22982	21638
75°	28594	19361	18479
80°	24275	15751	16408
85°	18292	11746	13055



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.0	5.1
10°-20°	702.5	14.0
20°-30°	975.1	19.4
30°-40°	1008.2	20.1
40°-50°	844.2	16.8
50°-60°	612.8	12.2
60°-70°	386.7	7.7
70°-80°	191.6	3.8
80°-90°	47.6	0.9
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°	1932.6	38.5
0°-40°	2940.8	58.5
0°-60°	4397.8	87.5
0°-90°	5023.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5023.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2722	2722	2722	2722	2722	
5°	2807	2774	2696	2622	2589	268
15°	2822	2715	2482	2283	2212	794
25°	2574	2408	2072	1847	1769	1180
35°	2006	1858	1559	1381	1333	1249
45°	1326	1230	1053	949	927	1026
55°	835	761	657	602	576	753
65°	502	440	369	325	329	501
75°	240	199	162	155	155	258
85°	52	41	33	37	37	63
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°	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0
2.5°	2766.4	2766.4	2770.1	2766.4	2766.4	2766.4	2762.7	2762.7	2759.0	2759.0	2751.7
5°	2807.0	2799.6	2807.0	2799.6	2799.6	2799.6	2796.0	2788.6	2784.9	2777.5	2773.8
7.5°	2825.5	2821.8	2821.8	2818.1	2818.1	2814.4	2810.7	2807.0	2792.3	2788.6	2777.5
10°	2836.6	2832.9	2832.9	2829.2	2821.8	2821.8	2814.4	2810.7	2792.3	2784.9	2770.1
12.5°	2832.9	2832.9	2832.9	2829.2	2818.1	2814.4	2807.0	2796.0	2781.2	2766.4	2751.7
15°	2821.8	2821.8	2814.4	2810.7	2799.6	2792.3	2788.6	2770.1	2755.4	2736.9	2714.6
17.5°	2784.9	2784.9	2781.2	2773.8	2762.7	2755.4	2748.0	2729.5	2714.6	2685.1	2663.0
20°	2736.9	2733.2	2729.5	2718.3	2707.3	2703.6	2692.5	2666.7	2648.2	2626.1	2596.5
22.5°	2666.7	2663.0	2659.3	2651.9	2633.4	2626.1	2618.7	2600.2	2567.0	2544.7	2507.8
25°	2574.4	2574.4	2567.0	2555.8	2537.4	2530.0	2518.9	2500.5	2470.9	2437.7	2408.2
27.5°	2467.2	2463.5	2452.5	2445.1	2430.3	2419.3	2400.8	2378.5	2349.0	2323.2	2286.3
30°	2330.6	2330.6	2323.2	2312.1	2293.7	2286.3	2271.5	2245.7	2216.0	2182.8	2157.0
32.5°	2175.4	2175.4	2164.4	2157.0	2145.9	2127.4	2123.8	2094.2	2068.4	2042.4	2012.9
35°	2005.5	2009.2	2001.8	1987.1	1968.6	1968.6	1961.2	1935.4	1905.9	1879.9	1857.8
37.5°	1835.6	1824.6	1820.9	1813.5	1802.4	1787.7	1780.3	1769.2	1743.4	1724.8	1691.6
40°	1647.3	1651.0	1643.6	1636.2	1632.5	1621.4	1617.8	1599.3	1580.9	1558.6	1543.8
42.5°	1477.4	1477.4	1477.4	1470.0	1462.6	1451.6	1447.9	1436.8	1414.6	1399.8	1377.6
45°	1325.9	1314.9	1314.9	1311.2	1307.5	1300.1	1289.0	1281.7	1266.9	1255.8	1229.9
47.5°	1178.2	1181.9	1178.2	1174.5	1163.4	1159.7	1156.1	1141.3	1126.5	1115.5	1097.0
50°	1048.9	1056.3	1048.9	1048.9	1041.5	1037.8	1030.4	1019.4	1008.3	989.8	971.4
52.5°	941.9	941.9	938.2	934.5	923.4	916.0	912.3	908.6	890.1	875.3	860.6
55°	834.7	838.4	838.4	827.3	823.6	816.3	812.6	801.5	794.1	772.0	760.9
57.5°	742.3	738.6	742.3	734.9	727.6	720.2	716.5	709.1	698.0	683.3	668.5
60°	661.1	653.7	653.7	650.1	642.7	639.0	631.6	620.5	609.5	594.7	583.6
62.5°	579.9	576.1	572.4	568.7	561.4	557.7	554.0	542.9	531.8	520.8	509.7
65°	502.3	502.3	498.6	491.2	487.5	483.9	480.2	472.8	458.0	450.6	439.6
67.5°	432.2	428.5	428.5	421.1	413.7	409.9	409.9	402.5	391.5	380.4	373.0
70°	361.9	365.6	361.9	358.2	350.9	350.9	343.5	339.8	325.0	321.3	310.3
72.5°	299.2	299.2	295.5	295.5	288.1	284.4	284.4	277.0	269.7	262.3	254.9
75°	240.0	240.0	240.0	236.3	232.6	225.3	225.3	221.6	214.2	206.8	199.4
77.5°	188.4	184.7	184.7	181.0	177.3	173.6	173.6	169.9	162.5	158.8	151.4
80°	136.7	133.0	133.0	133.0	125.6	129.3	125.6	121.9	118.2	114.5	110.8
82.5°	88.7	92.4	92.4	88.7	85.0	85.0	85.0	81.2	81.2	77.5	73.8
85°	51.7	51.7	51.7	51.7	48.0	48.0	48.0	44.3	44.3	44.3	40.6
87.5°	22.1	22.1	22.1	22.1	22.1	22.1	18.5	18.5	18.5	18.5	18.5
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°	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0
2.5°	2751.7	2744.3	2740.6	2736.9	2736.9	2733.2	2729.5	2722.0	2722.0	2714.6	2711.0
5°	2766.4	2755.4	2748.0	2740.6	2736.9	2729.5	2722.0	2711.0	2707.3	2696.2	2685.1
7.5°	2770.1	2751.7	2744.3	2729.5	2722.0	2714.6	2699.9	2688.8	2674.0	2663.0	2648.2
10°	2755.4	2740.6	2722.0	2703.6	2699.9	2688.8	2666.7	2651.9	2633.4	2618.7	2596.5
12.5°	2733.2	2711.0	2692.5	2670.4	2659.3	2648.2	2626.1	2603.9	2578.1	2552.1	2530.0
15°	2696.2	2670.4	2644.5	2618.7	2603.9	2592.8	2567.0	2541.1	2515.2	2482.0	2459.9
17.5°	2640.8	2611.3	2585.5	2552.1	2537.4	2526.3	2493.1	2463.5	2430.3	2397.1	2374.9
20°	2570.7	2533.7	2504.1	2467.2	2456.2	2437.7	2404.5	2371.2	2334.3	2297.3	2271.5
22.5°	2478.3	2441.4	2408.2	2371.2	2352.7	2334.3	2301.0	2260.4	2223.4	2193.9	2168.0
25°	2371.2	2337.9	2297.3	2264.1	2242.0	2219.7	2182.8	2149.6	2116.4	2072.1	2046.1
27.5°	2253.1	2212.3	2182.8	2138.5	2116.4	2101.6	2060.9	2016.6	1987.1	1946.5	1917.0
30°	2120.1	2083.2	2049.8	2005.5	1983.4	1968.6	1931.7	1891.0	1861.5	1820.9	1791.3
32.5°	1979.7	1939.1	1898.4	1868.9	1843.0	1828.3	1787.7	1761.8	1724.8	1691.6	1658.4
35°	1828.3	1787.7	1758.1	1717.4	1702.6	1687.9	1654.7	1621.4	1588.2	1558.6	1532.8
37.5°	1665.7	1636.2	1603.0	1573.5	1562.3	1547.5	1506.9	1477.4	1451.6	1422.0	1399.8
40°	1506.9	1481.1	1458.9	1429.4	1411.0	1399.8	1370.2	1344.4	1314.9	1296.4	1274.3
42.5°	1362.9	1333.3	1311.2	1289.0	1270.6	1259.5	1233.6	1215.1	1193.0	1174.5	1148.7
45°	1211.4	1196.7	1170.8	1152.4	1141.3	1126.5	1108.1	1085.9	1067.4	1052.6	1034.1
47.5°	1078.5	1063.7	1045.2	1023.1	1015.7	1004.6	986.2	971.4	956.6	941.9	923.4
50°	956.6	938.2	923.4	908.6	901.2	890.1	871.6	864.2	853.2	838.4	827.3
52.5°	845.8	831.0	816.3	797.8	794.1	786.7	775.7	760.9	749.8	742.3	734.9
55°	746.1	731.3	720.2	705.4	701.7	694.3	679.6	672.2	664.8	657.4	650.1
57.5°	657.4	642.7	627.9	620.5	613.1	605.8	602.1	591.0	583.6	579.9	572.4
60°	576.1	561.4	550.3	539.2	535.5	531.8	524.5	517.1	509.7	502.3	498.6
62.5°	498.6	483.9	476.5	469.1	461.7	461.7	454.3	446.9	439.6	435.9	428.5
65°	428.5	421.1	409.9	398.8	395.2	395.2	384.1	380.4	376.7	369.3	361.9
67.5°	361.9	354.6	343.5	339.8	336.1	332.4	328.7	321.3	314.0	310.3	302.9
70°	302.9	295.5	288.1	284.4	280.7	277.0	269.7	266.0	258.6	254.9	251.2
72.5°	243.7	240.0	232.6	228.9	225.3	221.6	217.9	214.2	206.8	203.1	199.4
75°	195.7	192.0	184.7	181.0	177.3	177.3	173.6	166.2	162.5	162.5	158.8
77.5°	147.8	144.1	140.4	136.7	133.0	133.0	129.3	125.6	121.9	121.9	118.2
80°	107.2	103.5	99.8	99.8	99.8	96.1	92.4	92.4	88.7	88.7	85.0
82.5°	70.1	70.1	66.4	66.4	66.4	62.7	62.7	59.1	59.1	59.1	59.1
85°	40.6	40.6	40.6	36.9	36.9	36.9	36.9	36.9	36.9	33.2	36.9
87.5°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	14.8	14.8	14.8
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°	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0
2.5°	2707.3	2703.6	2696.2	2696.2	2688.8	2688.8	2685.1	2681.4	2677.7	2674.0	2670.4
5°	2681.4	2666.7	2659.3	2655.6	2648.2	2644.5	2633.4	2626.1	2622.4	2615.0	2607.6
7.5°	2633.4	2618.7	2603.9	2600.2	2596.5	2581.8	2570.7	2559.6	2552.1	2544.7	2537.4
10°	2578.1	2563.3	2544.7	2537.4	2530.0	2511.5	2496.8	2485.7	2470.9	2456.2	2452.5
12.5°	2511.5	2489.4	2467.2	2459.9	2448.8	2430.3	2415.6	2397.1	2385.9	2367.5	2363.8
15°	2434.0	2408.2	2389.6	2371.2	2363.8	2345.3	2319.5	2304.7	2282.6	2275.2	2256.7
17.5°	2341.6	2315.8	2290.0	2282.6	2271.5	2245.7	2219.7	2201.3	2179.1	2168.0	2157.0
20°	2245.7	2212.3	2186.5	2179.1	2164.4	2142.2	2116.4	2097.9	2079.5	2057.2	2046.1
22.5°	2134.8	2097.9	2075.8	2057.2	2053.5	2027.7	1998.2	1983.4	1968.6	1950.2	1935.4
25°	2012.9	1979.7	1953.9	1939.1	1931.7	1909.6	1887.3	1868.9	1846.7	1835.6	1817.2
27.5°	1887.3	1865.2	1831.9	1817.2	1806.1	1787.7	1761.8	1750.7	1728.5	1713.7	1702.6
30°	1765.5	1732.2	1713.7	1695.3	1684.2	1665.7	1643.6	1632.5	1614.1	1599.3	1588.2
32.5°	1632.5	1610.4	1584.5	1577.2	1562.3	1543.8	1529.1	1510.6	1495.8	1481.1	1477.4
35°	1510.6	1481.1	1455.2	1447.9	1436.8	1418.3	1411.0	1399.8	1381.3	1377.6	1362.9
37.5°	1377.6	1362.9	1333.3	1322.3	1318.6	1303.8	1289.0	1281.7	1270.6	1259.5	1255.8
40°	1252.1	1233.6	1218.8	1207.7	1200.3	1189.3	1174.5	1170.8	1163.4	1148.7	1145.0
42.5°	1133.9	1115.5	1100.7	1097.0	1085.9	1074.9	1067.4	1056.3	1052.6	1048.9	1041.5
45°	1019.4	1008.3	993.5	989.8	986.2	971.4	964.0	956.6	949.2	945.6	938.2
47.5°	916.0	904.8	893.8	890.1	882.7	879.0	867.9	864.2	853.2	849.5	845.8
50°	816.3	808.9	801.5	797.8	790.4	786.7	779.4	772.0	764.6	760.9	757.2
52.5°	727.6	720.2	712.8	709.1	705.4	698.0	690.7	683.3	679.6	675.9	672.2
55°	642.7	635.3	631.6	627.9	624.2	620.5	609.5	605.8	602.1	598.4	591.0
57.5°	565.1	557.7	550.3	550.3	546.6	542.9	535.5	528.1	528.1	520.8	513.4
60°	494.9	487.5	480.2	476.5	472.8	465.4	461.7	458.0	454.3	450.6	443.3
62.5°	421.1	417.4	409.9	409.9	402.5	398.8	395.2	391.5	387.8	380.4	376.7
65°	358.2	354.6	347.2	343.5	343.5	339.8	332.4	328.7	325.0	325.0	321.3
67.5°	299.2	295.5	288.1	284.4	284.4	280.7	277.0	277.0	273.4	269.7	273.4
70°	247.4	240.0	240.0	236.3	236.3	232.6	228.9	228.9	228.9	232.6	232.6
72.5°	195.7	192.0	188.4	188.4	188.4	188.4	184.7	184.7	188.4	192.0	192.0
75°	155.1	151.4	151.4	151.4	147.8	147.8	151.4	151.4	155.1	155.1	155.1
77.5°	114.5	114.5	114.5	114.5	114.5	114.5	118.2	118.2	121.9	121.9	121.9
80°	85.0	85.0	85.0	85.0	85.0	88.7	88.7	88.7	88.7	88.7	92.4
82.5°	59.1	59.1	59.1	59.1	59.1	59.1	59.1	62.7	62.7	62.7	62.7
85°	33.2	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
87.5°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
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: P585168

CATALOG NUMBER: HCC8W60D010BZ-HM86080935-81WWW

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0	2722.0
2.5°	2666.7	2666.7	2666.7	2670.4	2663.0	2663.0	2663.0	2663.0
5°	2603.9	2600.2	2596.5	2600.2	2592.8	2592.8	2589.2	2589.2
7.5°	2526.3	2522.6	2518.9	2518.9	2511.5	2511.5	2507.8	2504.1
10°	2441.4	2434.0	2437.7	2430.3	2426.6	2422.9	2419.3	2415.6
12.5°	2349.0	2341.6	2337.9	2330.6	2323.2	2319.5	2323.2	2315.8
15°	2249.4	2238.3	2234.6	2227.1	2219.7	2216.0	2216.0	2212.3
17.5°	2138.5	2131.1	2127.4	2120.1	2116.4	2109.0	2105.3	2101.6
20°	2035.1	2016.6	2020.3	2012.9	2009.2	1994.5	1994.5	1998.2
22.5°	1920.6	1909.6	1902.2	1894.7	1891.0	1883.6	1883.6	1879.9
25°	1806.1	1795.0	1791.3	1784.0	1780.3	1772.9	1769.2	1769.2
27.5°	1695.3	1680.5	1680.5	1673.1	1665.7	1662.0	1658.4	1654.7
30°	1577.2	1566.0	1562.3	1562.3	1558.6	1558.6	1547.5	1551.2
32.5°	1466.3	1458.9	1455.2	1447.9	1447.9	1444.2	1444.2	1433.1
35°	1355.5	1344.4	1348.1	1340.7	1337.0	1333.3	1337.0	1333.3
37.5°	1248.4	1241.1	1241.1	1233.6	1233.6	1229.9	1226.2	1233.6
40°	1141.3	1137.6	1133.9	1130.2	1133.9	1130.2	1122.8	1126.5
42.5°	1034.1	1034.1	1030.4	1030.4	1026.8	1026.8	1026.8	1026.8
45°	938.2	934.5	934.5	930.8	930.8	930.8	930.8	927.1
47.5°	842.1	838.4	838.4	838.4	834.7	834.7	831.0	834.7
50°	749.8	749.8	746.1	746.1	749.8	746.1	742.3	742.3
52.5°	664.8	664.8	661.1	661.1	657.4	653.7	657.4	657.4
55°	587.3	583.6	579.9	579.9	576.1	572.4	572.4	576.1
57.5°	513.4	509.7	506.0	506.0	498.6	494.9	494.9	494.9
60°	443.3	435.9	435.9	432.2	432.2	428.5	428.5	428.5
62.5°	376.7	373.0	373.0	373.0	373.0	369.3	369.3	369.3
65°	321.3	321.3	321.3	325.0	325.0	328.7	328.7	328.7
67.5°	277.0	280.7	280.7	280.7	284.4	284.4	284.4	280.7
70°	236.3	236.3	236.3	240.0	240.0	240.0	240.0	240.0
72.5°	195.7	195.7	195.7	195.7	195.7	195.7	195.7	195.7
75°	155.1	158.8	158.8	158.8	155.1	158.8	158.8	155.1
77.5°	121.9	121.9	121.9	121.9	121.9	121.9	121.9	121.9
80°	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
82.5°	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
85°	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
87.5°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
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

Scaled Data Report



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

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