

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: P585065

Luminaire Tested: **HCC8W60D010BZ-HM86080827-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585065
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: HCC8W60D010BZ-HM86080827-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

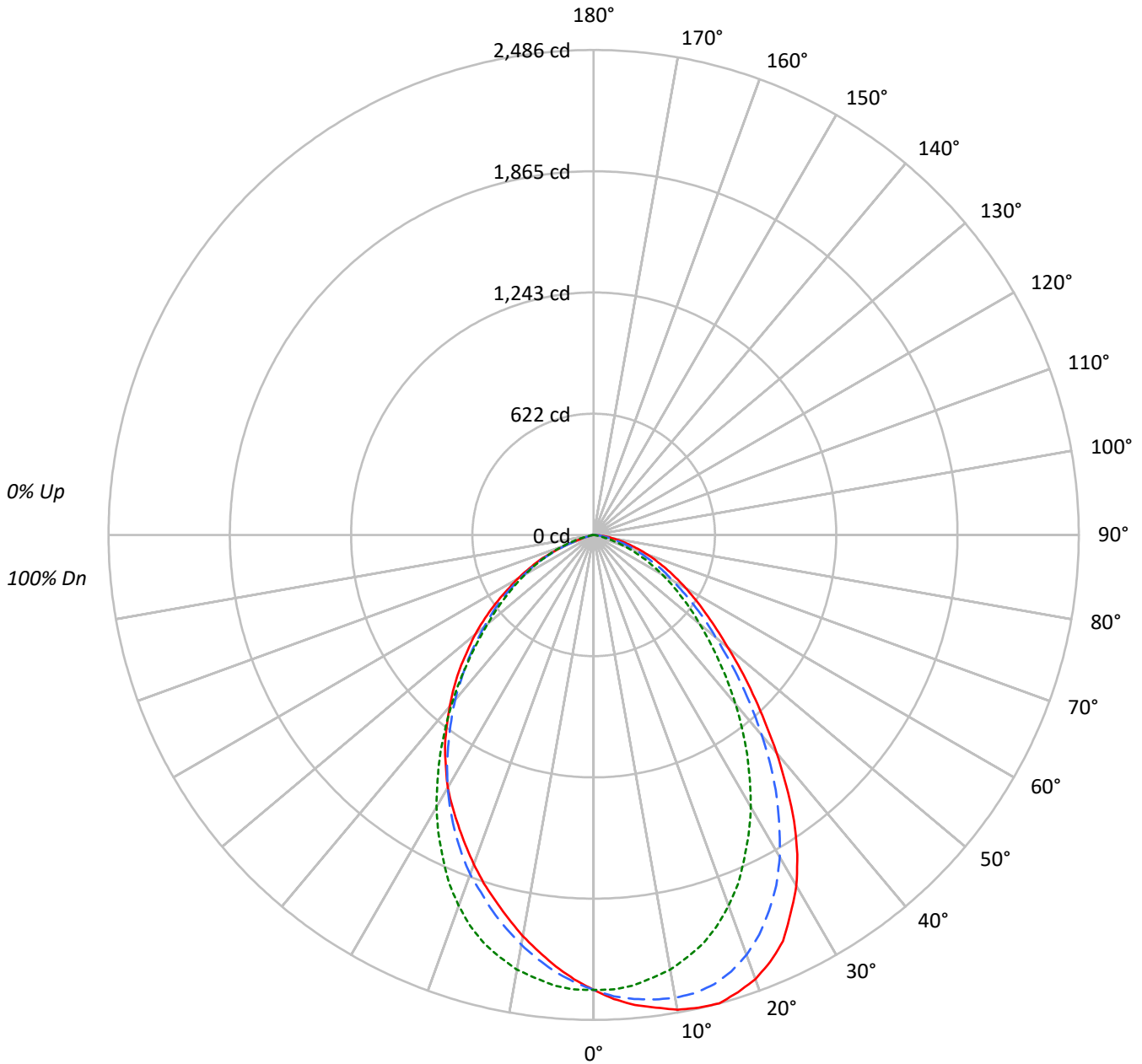
Lumens per Lamp: N/A
Luminaire Lumens: 4344.3 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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										
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	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°	71920	71920	71920
5°	74890	71761	68743
10°	77394	70843	65386
15°	79354	69224	61993
20°	79508	66353	58917
25°	78164	62155	55868
30°	73980	57348	53253
35°	67455	51576	50003
40°	58658	45467	46167
45°	50325	39375	42266
50°	42984	33950	37961
55°	37671	29235	32988
60°	33538	24940	27734
65°	29755	20350	22130
70°	26399	15093	12568
75°	22018	7887	3741
80°	17332	2486	622
85°	12312	1238	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	5.1
10°-20°	616.0	14.2
20°-30°	871.8	20.1
30°-40°	912.1	21.0
40°-50°	760.7	17.5
50°-60°	539.5	12.4
60°-70°	310.7	7.2
70°-80°	100.0	2.3
80°-90°	13.8	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°	1707.5	39.3
0°-40°	2619.6	60.3
0°-60°	3919.8	90.2
0°-90°	4344.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4344.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2332	2332	2332	2332	2332	
5°	2419	2388	2318	2249	2221	232
15°	2486	2384	2168	1998	1942	699
25°	2297	2126	1827	1680	1642	1048
35°	1792	1635	1370	1297	1328	1111
45°	1154	1060	903	913	969	894
55°	701	628	544	572	614	633
65°	408	342	279	279	303	408
75°	185	136	66	31	31	200
85°	35	17	4	0	0	44
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°	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3
2.5°	2381.1	2377.6	2374.0	2377.6	2374.0	2377.6	2374.0	2374.0	2370.6	2367.1	2367.1
5°	2419.4	2415.9	2415.9	2415.9	2412.5	2409.0	2409.0	2405.4	2398.5	2395.0	2388.0
7.5°	2443.8	2447.3	2447.3	2447.3	2440.4	2440.4	2433.3	2426.4	2419.4	2412.5	2402.0
10°	2471.7	2471.7	2468.3	2464.7	2457.8	2454.3	2450.7	2443.8	2433.3	2419.4	2409.0
12.5°	2482.1	2482.1	2478.7	2471.7	2468.3	2464.7	2461.2	2450.7	2436.9	2419.4	2405.4
15°	2485.7	2478.7	2475.2	2471.7	2464.7	2454.3	2454.3	2440.4	2422.9	2402.0	2384.5
17.5°	2457.8	2461.2	2454.3	2447.3	2436.9	2429.9	2419.4	2409.0	2388.0	2363.7	2346.2
20°	2422.9	2419.4	2415.9	2405.4	2391.6	2388.0	2377.6	2360.2	2342.7	2314.9	2290.4
22.5°	2367.1	2363.7	2356.6	2349.7	2335.8	2328.8	2318.3	2297.3	2273.0	2245.1	2217.2
25°	2297.3	2290.4	2279.9	2266.0	2255.6	2248.6	2234.6	2213.7	2185.8	2154.4	2126.5
27.5°	2185.8	2196.3	2189.4	2168.4	2157.9	2144.1	2140.5	2112.7	2088.2	2056.9	2025.5
30°	2077.7	2077.7	2067.4	2056.9	2039.4	2028.9	2015.0	1994.1	1969.7	1931.4	1906.9
32.5°	1941.9	1938.3	1924.3	1920.9	1906.9	1886.0	1882.6	1854.7	1830.2	1802.4	1770.9
35°	1791.9	1784.9	1770.9	1760.5	1753.5	1743.1	1732.6	1708.2	1683.8	1655.9	1635.1
37.5°	1621.1	1621.1	1617.6	1600.1	1593.2	1586.3	1575.8	1551.3	1537.4	1509.6	1488.6
40°	1457.2	1453.7	1443.2	1439.8	1432.9	1422.4	1415.3	1401.5	1380.5	1359.6	1338.8
42.5°	1296.9	1300.3	1286.4	1289.8	1275.9	1269.0	1265.5	1244.5	1234.1	1213.1	1195.7
45°	1154.0	1150.4	1143.5	1140.0	1133.0	1126.1	1119.0	1108.6	1091.2	1070.2	1059.9
47.5°	1021.5	1011.0	1011.0	1007.5	1004.0	990.1	986.6	976.1	965.6	944.7	930.8
50°	896.0	896.0	896.0	892.5	882.0	878.5	871.5	861.1	850.6	836.7	815.8
52.5°	794.8	794.8	794.8	791.3	777.4	773.9	770.5	756.5	742.6	732.1	718.1
55°	700.7	704.3	700.7	693.8	683.3	683.3	672.8	665.9	651.9	641.4	627.6
57.5°	620.5	620.5	613.6	610.0	603.1	599.7	592.6	585.7	568.3	557.8	540.4
60°	543.8	540.4	540.4	533.3	526.4	519.5	515.9	505.5	498.5	481.1	467.1
62.5°	474.2	474.2	467.1	467.1	453.2	453.2	449.7	439.2	428.8	411.4	404.4
65°	407.8	407.8	404.4	400.9	390.4	387.0	383.5	373.0	362.5	352.1	341.6
67.5°	348.7	348.7	341.6	338.2	331.1	327.7	320.8	313.7	303.3	292.8	282.4
70°	292.8	289.4	285.8	282.4	275.4	272.0	264.9	258.0	247.5	240.6	230.1
72.5°	237.0	237.0	233.6	226.6	223.1	219.6	216.1	209.2	198.7	188.2	181.3
75°	184.8	184.8	184.8	177.7	170.8	167.4	167.4	160.3	153.4	142.9	136.0
77.5°	142.9	139.4	136.0	136.0	129.0	125.5	122.0	118.6	108.1	104.6	97.6
80°	97.6	101.2	97.6	94.1	90.7	87.2	87.2	80.2	76.7	69.8	62.7
82.5°	66.2	62.7	62.7	59.3	59.3	55.8	55.8	48.8	45.3	41.9	38.3
85°	34.8	34.8	31.4	31.4	31.4	27.9	27.9	24.5	24.5	20.9	17.4
87.5°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	6.9	6.9	6.9
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°	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3
2.5°	2363.7	2356.6	2353.2	2353.2	2349.7	2346.2	2342.7	2339.2	2332.3	2332.3	2325.3
5°	2381.1	2374.0	2370.6	2360.2	2353.2	2353.2	2339.2	2335.8	2325.3	2318.3	2311.3
7.5°	2395.0	2381.1	2370.6	2360.2	2353.2	2346.2	2332.3	2318.3	2304.4	2290.4	2283.5
10°	2395.0	2381.1	2363.7	2346.2	2339.2	2332.3	2314.9	2293.9	2276.5	2262.5	2245.1
12.5°	2388.0	2367.1	2346.2	2332.3	2318.3	2307.8	2287.0	2266.0	2245.1	2217.2	2203.2
15°	2367.1	2339.2	2318.3	2293.9	2283.5	2266.0	2248.6	2217.2	2192.8	2168.4	2151.0
17.5°	2325.3	2290.4	2266.0	2241.6	2224.2	2213.7	2185.8	2157.9	2130.1	2102.2	2081.3
20°	2262.5	2231.1	2203.2	2171.9	2157.9	2144.1	2109.1	2081.3	2053.4	2022.0	2001.0
22.5°	2185.8	2154.4	2116.1	2091.7	2070.8	2053.4	2022.0	1990.7	1962.7	1934.8	1906.9
25°	2091.7	2060.3	2025.5	1987.1	1973.2	1955.7	1920.9	1889.5	1858.1	1826.8	1802.4
27.5°	1990.7	1948.8	1920.9	1879.0	1865.2	1847.6	1809.3	1774.5	1746.6	1722.1	1694.3
30°	1868.6	1837.3	1798.8	1760.5	1746.6	1729.2	1697.8	1666.4	1638.5	1610.6	1582.7
32.5°	1736.1	1704.7	1666.4	1638.5	1617.6	1603.7	1572.3	1544.4	1516.5	1488.6	1464.2
35°	1596.7	1561.8	1533.9	1506.0	1488.6	1471.2	1439.8	1415.3	1394.5	1370.1	1345.7
37.5°	1453.7	1429.3	1401.5	1370.1	1352.6	1338.8	1314.3	1286.4	1269.0	1248.1	1230.7
40°	1314.3	1286.4	1262.1	1234.1	1220.2	1209.7	1185.3	1164.4	1146.9	1129.5	1119.0
42.5°	1171.4	1146.9	1122.6	1105.1	1094.7	1084.2	1066.8	1042.3	1031.9	1014.5	1004.0
45°	1038.9	1018.0	1000.6	976.1	969.2	962.2	941.3	923.9	913.4	902.9	896.0
47.5°	913.4	899.4	878.5	864.6	854.1	847.2	833.2	819.3	808.8	801.8	794.8
50°	805.3	787.9	773.9	760.0	753.1	742.6	728.6	721.7	714.6	707.7	707.7
52.5°	704.3	686.7	672.8	662.4	655.4	648.4	637.9	634.5	627.6	627.6	624.0
55°	610.0	599.7	585.7	571.7	568.3	564.8	557.8	550.9	547.3	543.8	547.3
57.5°	529.9	519.5	505.5	495.0	491.6	488.1	484.5	477.6	474.2	474.2	474.2
60°	456.7	446.3	435.8	425.3	425.3	418.3	414.9	411.4	407.8	404.4	404.4
62.5°	390.4	380.0	369.5	362.5	359.1	355.6	348.7	345.1	341.6	341.6	338.2
65°	331.1	317.3	313.7	303.3	299.8	296.3	292.8	285.8	282.4	278.9	275.4
67.5°	272.0	264.9	254.4	247.5	244.1	240.6	237.0	230.1	226.6	223.1	216.1
70°	219.6	212.7	205.7	198.7	195.3	191.7	184.8	177.7	174.3	167.4	156.9
72.5°	170.8	163.9	156.9	149.9	146.4	142.9	136.0	129.0	122.0	115.0	108.1
75°	129.0	122.0	111.5	104.6	101.2	101.2	90.7	83.6	76.7	66.2	59.3
77.5°	90.7	80.2	76.7	69.8	66.2	59.3	52.2	45.3	38.3	34.8	27.9
80°	59.3	52.2	45.3	41.9	38.3	34.8	31.4	24.5	17.4	14.0	10.5
82.5°	34.8	31.4	27.9	24.5	20.9	17.4	14.0	14.0	10.5	6.9	3.5
85°	17.4	14.0	10.5	10.5	6.9	6.9	6.9	3.5	3.5	3.5	3.5
87.5°	6.9	3.5	3.5	3.5	3.5	3.5	3.5	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°	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3
2.5°	2321.8	2318.3	2314.9	2311.3	2311.3	2304.4	2304.4	2300.9	2293.9	2290.4	2290.4
5°	2300.9	2290.4	2283.5	2279.9	2276.5	2266.0	2262.5	2255.6	2248.6	2241.6	2238.2
7.5°	2269.5	2252.1	2245.1	2241.6	2231.1	2220.8	2213.7	2203.2	2192.8	2182.3	2178.9
10°	2231.1	2213.7	2196.3	2189.4	2178.9	2171.9	2157.9	2144.1	2133.6	2123.1	2112.7
12.5°	2182.3	2161.5	2144.1	2137.0	2126.5	2112.7	2091.7	2084.8	2067.4	2060.3	2046.4
15°	2126.5	2102.2	2084.8	2074.3	2063.8	2042.9	2028.9	2015.0	1997.6	1990.7	1976.7
17.5°	2056.9	2028.9	2011.5	2001.0	1994.1	1976.7	1955.7	1938.3	1920.9	1914.0	1903.5
20°	1973.2	1955.7	1931.4	1920.9	1914.0	1893.0	1872.1	1865.2	1851.2	1837.3	1826.8
22.5°	1879.0	1861.6	1837.3	1826.8	1823.3	1805.9	1788.5	1778.0	1767.5	1757.1	1746.6
25°	1781.4	1760.5	1739.6	1732.6	1725.7	1711.8	1697.8	1690.8	1680.4	1673.4	1666.4
27.5°	1676.8	1655.9	1638.5	1628.0	1621.1	1610.6	1603.7	1596.7	1589.7	1582.7	1579.2
30°	1565.3	1544.4	1530.4	1523.4	1516.5	1513.0	1502.5	1499.1	1495.6	1488.6	1492.0
32.5°	1453.7	1436.3	1422.4	1411.9	1411.9	1405.0	1401.5	1401.5	1397.9	1397.9	1397.9
35°	1331.7	1321.2	1310.8	1307.4	1303.8	1300.3	1296.9	1300.3	1296.9	1300.3	1303.8
37.5°	1220.2	1209.7	1202.8	1199.3	1195.7	1199.3	1195.7	1195.7	1199.3	1206.2	1209.7
40°	1105.1	1098.2	1091.2	1094.7	1091.2	1091.2	1091.2	1101.6	1105.1	1108.6	1112.1
42.5°	997.0	990.1	986.6	986.6	990.1	986.6	993.5	997.0	1004.0	1014.5	1021.5
45°	892.5	888.9	888.9	892.5	888.9	896.0	896.0	902.9	913.4	920.3	927.3
47.5°	794.8	794.8	794.8	798.4	798.4	801.8	808.8	812.3	819.3	826.2	833.2
50°	704.3	707.7	711.2	711.2	711.2	718.1	725.1	728.6	732.1	735.6	746.0
52.5°	624.0	627.6	627.6	631.0	634.5	637.9	641.4	648.4	651.9	658.9	662.4
55°	547.3	547.3	554.3	557.8	557.8	557.8	564.8	564.8	571.7	575.2	582.2
57.5°	474.2	477.6	477.6	481.1	481.1	484.5	488.1	491.6	495.0	498.5	502.0
60°	404.4	404.4	404.4	407.8	411.4	414.9	411.4	418.3	418.3	425.3	428.8
62.5°	338.2	341.6	341.6	341.6	341.6	341.6	341.6	345.1	348.7	352.1	355.6
65°	275.4	275.4	275.4	272.0	275.4	272.0	275.4	278.9	278.9	282.4	285.8
67.5°	212.7	212.7	205.7	205.7	209.2	209.2	209.2	209.2	205.7	212.7	212.7
70°	153.4	149.9	146.4	142.9	142.9	139.4	139.4	136.0	136.0	136.0	136.0
72.5°	101.2	94.1	87.2	83.6	80.2	80.2	73.2	69.8	73.2	73.2	73.2
75°	52.2	45.3	41.9	38.3	34.8	34.8	31.4	31.4	31.4	31.4	31.4
77.5°	20.9	17.4	14.0	14.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5
80°	6.9	6.9	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	3.5	0.0	0.0	3.5	0.0	3.5	3.5	3.5	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: P585065

CATALOG NUMBER: HCC8W60D010BZ-HM86080827-81WWBB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3
2.5°	2287.0	2287.0	2283.5	2287.0	2279.9	2283.5	2279.9	2279.9
5°	2234.6	2227.7	2227.7	2227.7	2224.2	2224.2	2220.8	2220.8
7.5°	2171.9	2168.4	2164.9	2161.5	2157.9	2154.4	2154.4	2154.4
10°	2109.1	2102.2	2102.2	2098.7	2091.7	2088.2	2088.2	2088.2
12.5°	2036.0	2032.4	2028.9	2028.9	2015.0	2018.4	2015.0	2015.0
15°	1966.2	1962.7	1962.7	1952.2	1945.3	1945.3	1945.3	1941.9
17.5°	1893.0	1889.5	1886.0	1879.0	1872.1	1872.1	1868.6	1872.1
20°	1816.3	1812.8	1805.9	1805.9	1802.4	1798.8	1791.9	1795.4
22.5°	1739.6	1732.6	1729.2	1729.2	1725.7	1725.7	1718.7	1718.7
25°	1659.4	1655.9	1652.5	1655.9	1649.0	1649.0	1642.0	1642.0
27.5°	1575.8	1572.3	1572.3	1572.3	1568.7	1572.3	1568.7	1568.7
30°	1492.0	1492.0	1488.6	1488.6	1492.0	1488.6	1492.0	1495.6
32.5°	1401.5	1401.5	1405.0	1405.0	1408.4	1408.4	1408.4	1408.4
35°	1307.4	1314.3	1314.3	1317.8	1321.2	1324.8	1324.8	1328.3
37.5°	1220.2	1223.6	1227.1	1230.7	1237.6	1237.6	1237.6	1237.6
40°	1126.1	1129.5	1136.4	1133.0	1146.9	1150.4	1146.9	1146.9
42.5°	1028.4	1035.4	1038.9	1045.9	1049.4	1056.3	1059.9	1059.9
45°	937.8	941.3	948.2	955.2	958.7	969.2	969.2	969.2
47.5°	843.7	850.6	854.1	861.1	864.6	875.1	878.5	875.1
50°	753.1	760.0	767.0	767.0	777.4	780.9	787.9	791.3
52.5°	665.9	669.3	676.4	679.8	686.7	693.8	697.2	700.7
55°	582.2	585.7	592.6	592.6	603.1	606.6	613.6	613.6
57.5°	505.5	509.0	515.9	512.5	519.5	526.4	526.4	523.0
60°	432.3	432.3	432.3	439.2	442.8	446.3	449.7	449.7
62.5°	355.6	362.5	366.1	366.1	369.5	373.0	373.0	369.5
65°	285.8	292.8	296.3	296.3	299.8	299.8	299.8	303.3
67.5°	216.1	216.1	216.1	219.6	216.1	216.1	216.1	216.1
70°	136.0	136.0	136.0	136.0	132.5	136.0	136.0	139.4
72.5°	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
75°	31.4	31.4	31.4	34.8	31.4	31.4	31.4	31.4
77.5°	14.0	10.5	14.0	14.0	10.5	10.5	10.5	10.5
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	0.0	3.5	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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