

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: P584810

Luminaire Tested: **HCC8S50D010BZ-HM82555830-81WWBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584810  
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: HCC8S50D010BZ-HM82555830-81WWBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

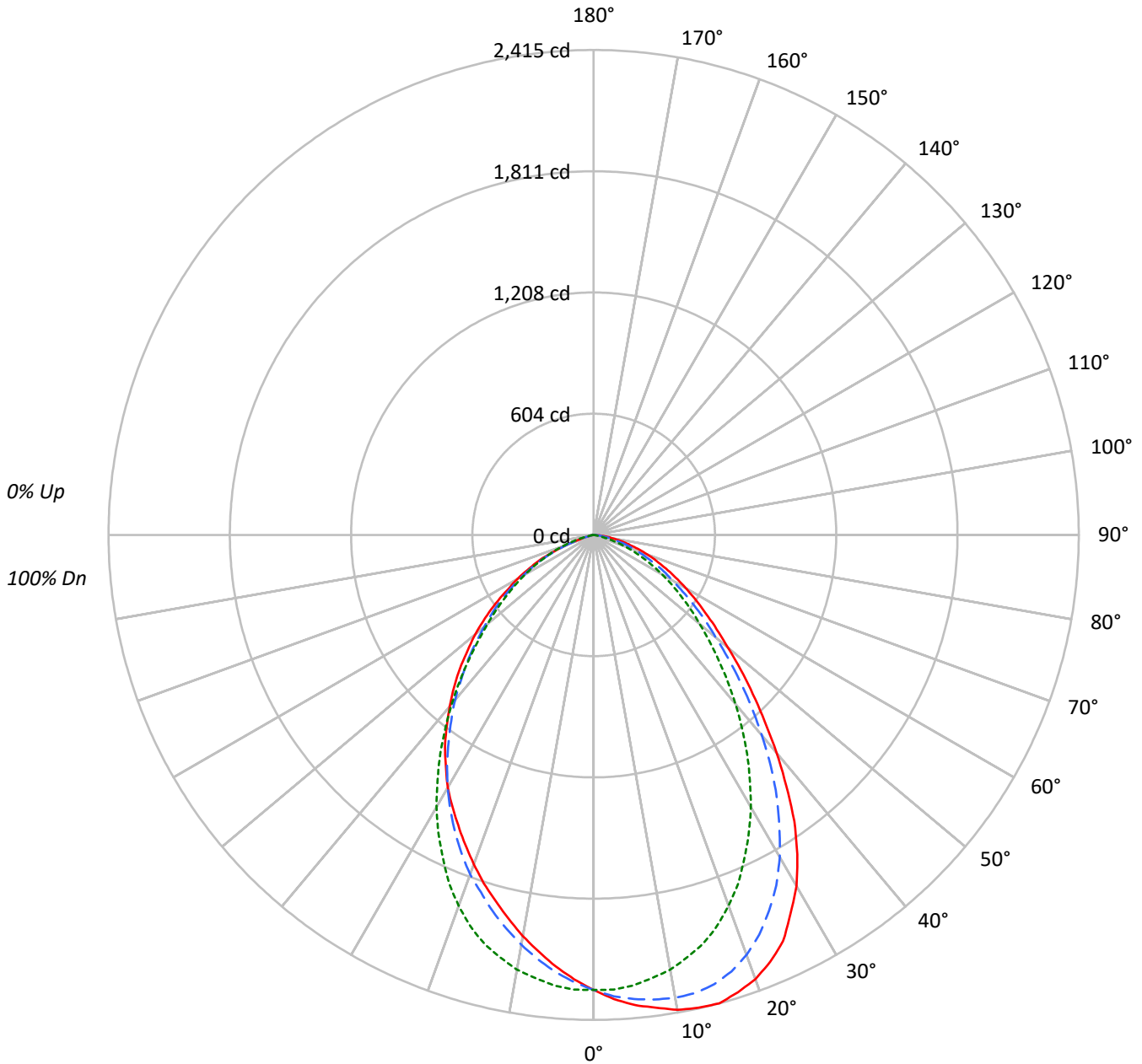
Lumens per Lamp: N/A  
Luminaire Lumens: 4220.6 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77					77			
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67					67			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59					59			
5	82	70	63	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53					53			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	58	53	49	47					47			
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43					43			
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39					39			
9	62	50	43	37	61	50	42	37	48	42	37	47	41	37	46	41	37	35					35			
10	59	47	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32					32			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	69872	69872	69872
5°	72758	69718	66783
10°	75193	68827	63526
15°	77094	67255	60225
20°	77244	64462	57240
25°	75942	60386	54275
30°	71876	55717	51737
35°	65535	50104	48580
40°	56992	44171	44855
45°	48890	38254	41058
50°	41756	32986	36886
55°	36601	28408	32047
60°	32588	24231	26951
65°	28916	19773	21503
70°	25650	14660	12217
75°	21398	7661	3634
80°	16835	2415	604
85°	11994	1203	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.5	5.1
10°-20°	598.4	14.2
20°-30°	847.0	20.1
30°-40°	886.1	21.0
40°-50°	739.1	17.5
50°-60°	524.1	12.4
60°-70°	301.9	7.2
70°-80°	97.1	2.3
80°-90°	13.4	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°	1658.9	39.3
0°-40°	2545.0	60.3
0°-60°	3808.2	90.2
0°-90°	4220.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4220.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2266	2266	2266	2266	2266	
5°	2350	2320	2252	2185	2158	226
15°	2415	2317	2107	1941	1886	679
25°	2232	2066	1775	1632	1595	1018
35°	1741	1588	1331	1260	1290	1079
45°	1121	1030	877	887	942	869
55°	681	610	528	556	596	615
65°	396	332	271	271	295	396
75°	180	132	64	30	30	195
85°	34	17	3	0	0	42
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°	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9
2.5°	2313.3	2309.9	2306.6	2309.9	2306.6	2309.9	2306.6	2306.6	2303.2	2299.8	2299.8
5°	2350.5	2347.1	2347.1	2347.1	2343.7	2340.3	2340.3	2336.9	2330.2	2326.8	2320.1
7.5°	2374.2	2377.6	2377.6	2377.6	2370.8	2370.8	2364.1	2357.3	2350.5	2343.7	2333.6
10°	2401.4	2401.4	2398.0	2394.6	2387.8	2384.4	2381.0	2374.2	2364.1	2350.5	2340.3
12.5°	2411.5	2411.5	2408.1	2401.4	2398.0	2394.6	2391.2	2381.0	2367.5	2350.5	2336.9
15°	2414.9	2408.1	2404.7	2401.4	2394.6	2384.4	2384.4	2370.8	2353.9	2333.6	2316.7
17.5°	2387.8	2391.2	2384.4	2377.6	2367.5	2360.7	2350.5	2340.3	2320.1	2296.4	2279.4
20°	2353.9	2350.5	2347.1	2336.9	2323.4	2320.1	2309.9	2293.0	2276.0	2248.9	2225.2
22.5°	2299.8	2296.4	2289.6	2282.8	2269.3	2262.5	2252.3	2232.0	2208.2	2181.2	2154.1
25°	2232.0	2225.2	2215.0	2201.5	2191.4	2184.6	2171.1	2150.7	2123.6	2093.1	2066.1
27.5°	2123.6	2133.8	2127.0	2106.7	2096.5	2082.9	2079.5	2052.5	2028.8	1998.3	1967.8
30°	2018.6	2018.6	2008.5	1998.3	1981.3	1971.2	1957.6	1937.4	1913.7	1876.4	1852.6
32.5°	1886.5	1883.1	1869.6	1866.2	1852.6	1832.3	1828.9	1801.9	1778.2	1751.0	1720.5
35°	1740.9	1734.1	1720.5	1710.4	1703.6	1693.5	1683.4	1659.6	1635.9	1608.8	1588.4
37.5°	1574.9	1574.9	1571.5	1554.7	1547.9	1541.1	1530.9	1507.2	1493.6	1466.5	1446.2
40°	1415.8	1412.4	1402.2	1398.8	1392.0	1381.9	1375.1	1361.5	1341.2	1320.9	1300.6
42.5°	1259.9	1263.3	1249.8	1253.2	1239.6	1232.8	1229.4	1209.1	1198.9	1178.7	1161.8
45°	1121.1	1117.7	1110.9	1107.5	1100.7	1094.0	1087.2	1077.0	1060.2	1039.8	1029.7
47.5°	992.4	982.2	982.2	978.8	975.4	961.9	958.5	948.3	938.2	917.9	904.3
50°	870.4	870.4	870.4	867.0	856.9	853.5	846.7	836.5	826.4	812.9	792.6
52.5°	772.2	772.2	772.2	768.9	755.3	751.9	748.5	735.0	721.4	711.2	697.7
55°	680.8	684.2	680.8	674.0	663.9	663.9	653.7	646.9	633.4	623.2	609.6
57.5°	602.9	602.9	596.1	592.7	585.9	582.5	575.7	569.0	552.1	541.9	525.0
60°	528.4	525.0	525.0	518.2	511.4	504.7	501.3	491.1	484.3	467.4	453.8
62.5°	460.6	460.6	453.8	453.8	440.2	440.2	437.0	426.8	416.6	399.7	392.9
65°	396.3	396.3	392.9	389.5	379.3	376.0	372.6	362.4	352.2	342.0	331.9
67.5°	338.7	338.7	331.9	328.5	321.7	318.3	311.7	304.9	294.7	284.5	274.4
70°	284.5	281.1	277.8	274.4	267.6	264.2	257.4	250.6	240.5	233.7	223.5
72.5°	230.3	230.3	226.9	220.1	216.7	213.3	210.0	203.2	193.0	182.9	176.2
75°	179.6	179.6	179.6	172.8	166.0	162.6	162.6	155.8	149.0	138.9	132.1
77.5°	138.9	135.5	132.1	132.1	125.3	121.9	118.5	115.1	105.0	101.6	94.8
80°	94.8	98.2	94.8	91.4	88.0	84.6	84.6	77.9	74.5	67.7	61.0
82.5°	64.3	61.0	61.0	57.6	57.6	54.2	54.2	47.5	44.1	40.7	37.3
85°	33.9	33.9	30.5	30.5	30.5	27.1	27.1	23.7	23.7	20.3	17.0
87.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	6.8	6.8	6.8
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°	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9
2.5°	2296.4	2289.6	2286.2	2286.2	2282.8	2279.4	2276.0	2272.7	2265.9	2265.9	2259.1
5°	2313.3	2306.6	2303.2	2293.0	2286.2	2286.2	2272.7	2269.3	2259.1	2252.3	2245.5
7.5°	2326.8	2313.3	2303.2	2293.0	2286.2	2279.4	2265.9	2252.3	2238.8	2225.2	2218.4
10°	2326.8	2313.3	2296.4	2279.4	2272.7	2265.9	2248.9	2228.6	2211.6	2198.1	2181.2
12.5°	2320.1	2299.8	2279.4	2265.9	2252.3	2242.1	2221.8	2201.5	2181.2	2154.1	2140.6
15°	2299.8	2272.7	2252.3	2228.6	2218.4	2201.5	2184.6	2154.1	2130.4	2106.7	2089.7
17.5°	2259.1	2225.2	2201.5	2177.8	2160.9	2150.7	2123.6	2096.5	2069.5	2042.4	2022.0
20°	2198.1	2167.7	2140.6	2110.0	2096.5	2082.9	2049.1	2022.0	1994.9	1964.4	1944.2
22.5°	2123.6	2093.1	2055.9	2032.2	2011.8	1994.9	1964.4	1934.0	1906.9	1879.8	1852.6
25°	2032.2	2001.7	1967.8	1930.6	1917.0	1900.1	1866.2	1835.7	1805.3	1774.8	1751.0
27.5°	1934.0	1893.3	1866.2	1825.5	1812.1	1795.1	1757.8	1723.9	1696.8	1673.2	1646.1
30°	1815.5	1784.9	1747.7	1710.4	1696.8	1680.0	1649.5	1618.9	1591.8	1564.8	1537.7
32.5°	1686.8	1656.2	1618.9	1591.8	1571.5	1558.0	1527.5	1500.4	1473.3	1446.2	1422.6
35°	1551.3	1517.4	1490.2	1463.1	1446.2	1429.3	1398.8	1375.1	1354.8	1331.0	1307.4
37.5°	1412.4	1388.7	1361.5	1331.0	1314.2	1300.6	1276.9	1249.8	1232.8	1212.5	1195.5
40°	1276.9	1249.8	1226.0	1198.9	1185.5	1175.3	1151.6	1131.2	1114.3	1097.3	1087.2
42.5°	1138.0	1114.3	1090.6	1073.6	1063.6	1053.4	1036.4	1012.7	1002.5	985.6	975.4
45°	1009.3	989.0	972.0	948.3	941.5	934.8	914.5	897.6	887.4	877.2	870.4
47.5°	887.4	873.8	853.5	839.9	829.8	823.0	809.5	796.0	785.8	779.0	772.2
50°	782.4	765.5	751.9	738.3	731.6	721.4	707.8	701.0	694.3	687.6	687.6
52.5°	684.2	667.3	653.7	643.5	636.8	630.0	619.8	616.4	609.6	609.6	606.2
55°	592.7	582.5	569.0	555.5	552.1	548.7	541.9	535.2	531.8	528.4	531.8
57.5°	514.8	504.7	491.1	480.9	477.5	474.1	470.8	464.0	460.6	460.6	460.6
60°	443.6	433.6	423.4	413.2	413.2	406.5	403.1	399.7	396.3	392.9	392.9
62.5°	379.3	369.2	359.0	352.2	348.8	345.4	338.7	335.3	331.9	331.9	328.5
65°	321.7	308.3	304.9	294.7	291.3	287.9	284.5	277.8	274.4	271.0	267.6
67.5°	264.2	257.4	247.2	240.5	237.1	233.7	230.3	223.5	220.1	216.7	210.0
70°	213.3	206.6	199.8	193.0	189.6	186.3	179.6	172.8	169.4	162.6	152.4
72.5°	166.0	159.2	152.4	145.7	142.3	138.9	132.1	125.3	118.5	111.8	105.0
75°	125.3	118.5	108.4	101.6	98.2	98.2	88.0	81.2	74.5	64.3	57.6
77.5°	88.0	77.9	74.5	67.7	64.3	57.6	50.9	44.1	37.3	33.9	27.1
80°	57.6	50.9	44.1	40.7	37.3	33.9	30.5	23.7	17.0	13.6	10.2
82.5°	33.9	30.5	27.1	23.7	20.3	17.0	13.6	13.6	10.2	6.8	3.4
85°	17.0	13.6	10.2	10.2	6.8	6.8	6.8	3.4	3.4	3.4	3.4
87.5°	6.8	3.4	3.4	3.4	3.4	3.4	3.4	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°	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9
2.5°	2255.7	2252.3	2248.9	2245.5	2245.5	2238.8	2238.8	2235.4	2228.6	2225.2	2225.2
5°	2235.4	2225.2	2218.4	2215.0	2211.6	2201.5	2198.1	2191.4	2184.6	2177.8	2174.5
7.5°	2204.9	2188.0	2181.2	2177.8	2167.7	2157.5	2150.7	2140.6	2130.4	2120.2	2116.8
10°	2167.7	2150.7	2133.8	2127.0	2116.8	2110.0	2096.5	2082.9	2072.8	2062.7	2052.5
12.5°	2120.2	2099.9	2082.9	2076.1	2066.1	2052.5	2032.2	2025.4	2008.5	2001.7	1988.1
15°	2066.1	2042.4	2025.4	2015.2	2005.1	1984.7	1971.2	1957.6	1940.8	1934.0	1920.4
17.5°	1998.3	1971.2	1954.2	1944.2	1937.4	1920.4	1900.1	1883.1	1866.2	1859.4	1849.2
20°	1917.0	1900.1	1876.4	1866.2	1859.4	1839.1	1818.8	1812.1	1798.5	1784.9	1774.8
22.5°	1825.5	1808.7	1784.9	1774.8	1771.4	1754.4	1737.5	1727.3	1717.1	1707.0	1696.8
25°	1730.7	1710.4	1690.1	1683.4	1676.6	1663.0	1649.5	1642.7	1632.5	1625.7	1618.9
27.5°	1629.1	1608.8	1591.8	1581.7	1574.9	1564.8	1558.0	1551.3	1544.5	1537.7	1534.3
30°	1520.8	1500.4	1486.9	1480.1	1473.3	1469.9	1459.7	1456.3	1453.0	1446.2	1449.6
32.5°	1412.4	1395.4	1381.9	1371.7	1371.7	1364.9	1361.5	1361.5	1358.1	1358.1	1358.1
35°	1293.8	1283.7	1273.5	1270.1	1266.7	1263.3	1259.9	1263.3	1259.9	1263.3	1266.7
37.5°	1185.5	1175.3	1168.5	1165.1	1161.8	1165.1	1161.8	1161.8	1165.1	1171.9	1175.3
40°	1073.6	1066.8	1060.2	1063.6	1060.2	1060.2	1060.2	1070.2	1073.6	1077.0	1080.4
42.5°	968.6	961.9	958.5	958.5	961.9	958.5	965.2	968.6	975.4	985.6	992.4
45°	867.0	863.7	863.7	867.0	863.7	870.4	870.4	877.2	887.4	894.2	900.9
47.5°	772.2	772.2	772.2	775.6	775.6	779.0	785.8	789.2	796.0	802.8	809.5
50°	684.2	687.6	690.9	690.9	690.9	697.7	704.4	707.8	711.2	714.6	724.8
52.5°	606.2	609.6	609.6	613.0	616.4	619.8	623.2	630.0	633.4	640.1	643.5
55°	531.8	531.8	538.6	541.9	541.9	541.9	548.7	548.7	555.5	558.9	565.6
57.5°	460.6	464.0	464.0	467.4	467.4	470.8	474.1	477.5	480.9	484.3	487.7
60°	392.9	392.9	392.9	396.3	399.7	403.1	399.7	406.5	406.5	413.2	416.6
62.5°	328.5	331.9	331.9	331.9	331.9	331.9	331.9	335.3	338.7	342.0	345.4
65°	267.6	267.6	267.6	264.2	267.6	264.2	267.6	271.0	271.0	274.4	277.8
67.5°	206.6	206.6	199.8	199.8	203.2	203.2	203.2	203.2	199.8	206.6	206.6
70°	149.0	145.7	142.3	138.9	138.9	135.5	135.5	132.1	132.1	132.1	132.1
72.5°	98.2	91.4	84.6	81.2	77.9	77.9	71.1	67.7	71.1	71.1	71.1
75°	50.9	44.1	40.7	37.3	33.9	33.9	30.5	30.5	30.5	30.5	30.5
77.5°	20.3	17.0	13.6	13.6	10.2	10.2	10.2	10.2	10.2	10.2	10.2
80°	6.8	6.8	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
85°	3.4	0.0	0.0	3.4	0.0	3.4	3.4	3.4	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: P584810

CATALOG NUMBER: HCC8S50D010BZ-HM82555830-81WWBB

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9
2.5°	2221.8	2221.8	2218.4	2221.8	2215.0	2218.4	2215.0	2215.0
5°	2171.1	2164.3	2164.3	2164.3	2160.9	2160.9	2157.5	2157.5
7.5°	2110.0	2106.7	2103.3	2099.9	2096.5	2093.1	2093.1	2093.1
10°	2049.1	2042.4	2042.4	2039.0	2032.2	2028.8	2028.8	2028.8
12.5°	1977.9	1974.6	1971.2	1971.2	1957.6	1961.0	1957.6	1957.6
15°	1910.3	1906.9	1906.9	1896.7	1889.9	1889.9	1889.9	1886.5
17.5°	1839.1	1835.7	1832.3	1825.5	1818.8	1818.8	1815.5	1818.8
20°	1764.6	1761.2	1754.4	1754.4	1751.0	1747.7	1740.9	1744.3
22.5°	1690.1	1683.4	1680.0	1680.0	1676.6	1676.6	1669.8	1669.8
25°	1612.2	1608.8	1605.4	1608.8	1602.0	1602.0	1595.2	1595.2
27.5°	1530.9	1527.5	1527.5	1527.5	1524.1	1527.5	1524.1	1524.1
30°	1449.6	1449.6	1446.2	1446.2	1449.6	1446.2	1449.6	1453.0
32.5°	1361.5	1361.5	1364.9	1364.9	1368.3	1368.3	1368.3	1368.3
35°	1270.1	1276.9	1276.9	1280.3	1283.7	1287.1	1287.1	1290.5
37.5°	1185.5	1188.9	1192.1	1195.5	1202.3	1202.3	1202.3	1202.3
40°	1094.0	1097.3	1104.1	1100.7	1114.3	1117.7	1114.3	1114.3
42.5°	999.1	1005.9	1009.3	1016.1	1019.5	1026.3	1029.7	1029.7
45°	911.1	914.5	921.3	928.1	931.5	941.5	941.5	941.5
47.5°	819.6	826.4	829.8	836.5	839.9	850.1	853.5	850.1
50°	731.6	738.3	745.1	745.1	755.3	758.7	765.5	768.9
52.5°	646.9	650.3	657.1	660.5	667.3	674.0	677.4	680.8
55°	565.6	569.0	575.7	575.7	585.9	589.3	596.1	596.1
57.5°	491.1	494.5	501.3	497.9	504.7	511.4	511.4	508.0
60°	420.0	420.0	420.0	426.8	430.2	433.6	437.0	437.0
62.5°	345.4	352.2	355.6	355.6	359.0	362.4	362.4	359.0
65°	277.8	284.5	287.9	287.9	291.3	291.3	291.3	294.7
67.5°	210.0	210.0	210.0	213.3	210.0	210.0	210.0	210.0
70°	132.1	132.1	132.1	132.1	128.7	132.1	132.1	135.5
72.5°	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
75°	30.5	30.5	30.5	33.9	30.5	30.5	30.5	30.5
77.5°	13.6	10.2	13.6	13.6	10.2	10.2	10.2	10.2
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
85°	0.0	3.4	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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Scaled Data Report



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

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(END OF REPORT)