

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: P584948

Luminaire Tested: **HCC8S55D010BZ-HM82555830-81WWWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584948  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S55D010BZ-HM82555830-81WWWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

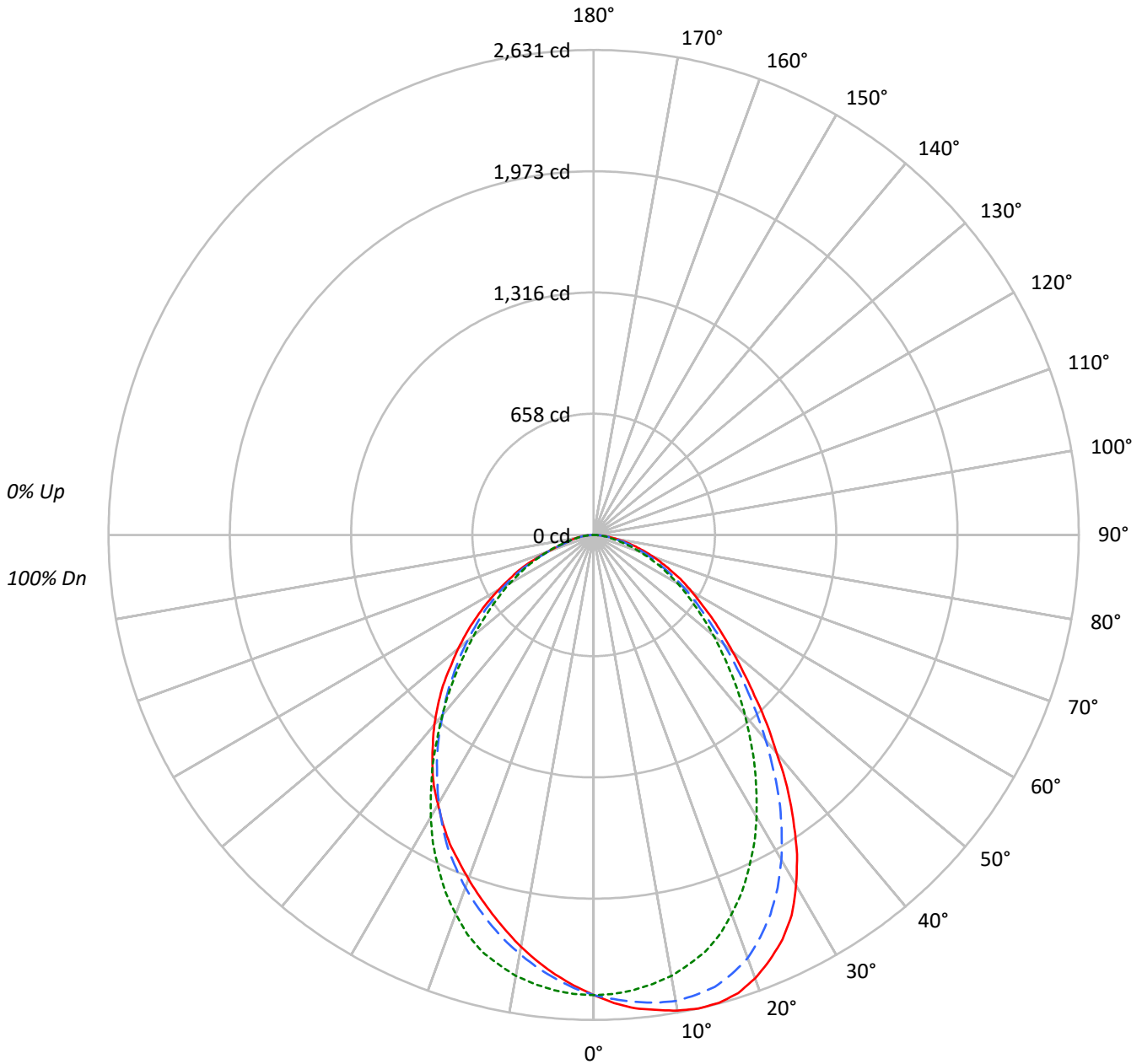
Lumens per Lamp: N/A  
Luminaire Lumens: 5020.8 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 52  
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	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	92	91	89	87				
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75				
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65				
4	87	76	68	62	84	75	67	61	72	66	61	70	64	60	68	63	59	57				
5	80	69	60	54	78	67	60	54	65	59	54	64	58	53	62	57	52	50				
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45				
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40				
8	65	52	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37				
9	61	48	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33				
10	57	45	38	33	56	44	37	33	44	37	32	43	37	32	42	36	32	30				

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

	0°	90°	180°
0°	76980	76980	76980
5°	79797	76726	74089
10°	82053	76057	71056
15°	83881	74715	67919
20°	84011	71797	65161
25°	82400	67807	62856
30°	78153	62878	60101
35°	71016	57268	57400
40°	62092	51384	54097
45°	53814	45772	50408
50°	47124	40657	45929
55°	41939	36026	41563
60°	37830	32366	36523
65°	34155	28456	31820
70°	30699	23973	23658
75°	27033	19003	17752
80°	22659	15734	17012
85°	17584	13798	15037



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.5	4.7
10°-20°	663.3	13.2
20°-30°	948.0	18.9
30°-40°	1007.2	20.1
40°-50°	867.2	17.3
50°-60°	648.4	12.9
60°-70°	413.6	8.2
70°-80°	188.2	3.7
80°-90°	49.4	1.0
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°	1846.8	36.8
0°-40°	2854.0	56.8
0°-60°	4369.6	87.0
0°-90°	5020.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5020.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2496	2496	2496	2496	2496	
5°	2578	2542	2479	2415	2394	247
15°	2628	2539	2340	2181	2128	740
25°	2422	2269	1993	1872	1847	1109
35°	1886	1755	1521	1482	1525	1175
45°	1234	1167	1050	1078	1156	959
55°	780	716	670	727	773	701
65°	468	415	390	408	436	467
75°	227	195	160	145	149	241
85°	50	42	39	42	42	60
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°	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4
2.5°	2542.4	2535.4	2538.9	2535.4	2538.9	2538.9	2531.8	2531.8	2531.8	2531.8	2521.2
5°	2577.9	2574.3	2574.3	2570.8	2567.3	2570.8	2567.3	2563.8	2556.6	2553.1	2542.4
7.5°	2599.1	2599.1	2599.1	2599.1	2595.6	2592.1	2588.5	2581.4	2574.3	2567.3	2560.1
10°	2620.5	2624.0	2620.5	2617.0	2613.3	2606.3	2602.7	2595.6	2585.0	2574.3	2567.3
12.5°	2631.1	2631.1	2627.5	2627.5	2620.5	2617.0	2606.3	2595.6	2585.0	2574.3	2556.6
15°	2627.5	2627.5	2624.0	2620.5	2609.8	2606.3	2599.1	2588.5	2570.8	2556.6	2538.9
17.5°	2606.3	2602.7	2595.6	2595.6	2581.4	2577.9	2570.8	2556.6	2538.9	2517.6	2496.4
20°	2560.1	2560.1	2556.6	2553.1	2538.9	2528.2	2521.2	2503.4	2489.2	2464.5	2443.2
22.5°	2496.4	2503.4	2496.4	2489.2	2471.5	2468.0	2457.3	2436.0	2414.8	2386.4	2361.6
25°	2421.8	2418.3	2414.8	2407.6	2393.5	2386.4	2372.2	2350.9	2329.7	2297.8	2269.3
27.5°	2326.2	2312.0	2312.0	2297.8	2287.2	2276.5	2269.3	2248.1	2219.8	2194.9	2159.5
30°	2194.9	2198.4	2180.7	2177.2	2159.5	2152.4	2138.2	2116.9	2092.1	2063.8	2035.4
32.5°	2053.1	2042.4	2042.4	2028.3	2014.1	2003.4	1999.9	1975.1	1953.8	1925.5	1897.1
35°	1886.5	1886.5	1875.8	1872.3	1858.1	1850.9	1840.4	1826.2	1801.4	1776.5	1755.2
37.5°	1723.3	1716.3	1712.6	1705.6	1694.9	1684.3	1684.3	1659.6	1655.9	1627.6	1599.2
40°	1542.5	1549.6	1542.5	1531.8	1528.3	1521.3	1517.6	1503.4	1492.9	1468.0	1450.2
42.5°	1390.0	1383.0	1383.0	1379.3	1365.1	1365.1	1358.1	1351.0	1333.3	1326.2	1304.9
45°	1234.0	1241.0	1230.5	1234.0	1219.8	1219.8	1219.8	1205.6	1191.5	1180.8	1166.6
47.5°	1099.2	1102.7	1102.7	1092.2	1088.6	1088.6	1081.5	1074.4	1063.8	1049.6	1039.0
50°	982.3	985.8	978.6	975.1	968.1	964.4	964.4	950.3	943.2	929.0	921.9
52.5°	875.8	875.8	872.3	872.3	861.7	861.7	854.6	844.0	836.8	829.8	812.0
55°	780.1	780.1	776.6	773.1	773.1	762.4	758.9	748.2	741.1	726.9	716.3
57.5°	688.0	691.5	688.0	684.3	680.8	677.3	670.1	659.6	652.5	641.8	634.8
60°	613.4	613.4	609.9	606.4	599.2	595.7	592.2	585.1	574.4	567.4	556.7
62.5°	542.5	539.0	535.5	531.9	524.8	524.8	517.7	510.6	500.0	492.9	485.8
65°	468.1	468.1	464.5	464.5	460.9	453.9	450.3	446.8	432.6	429.1	414.9
67.5°	400.7	404.2	397.2	397.2	390.0	390.0	386.5	375.9	372.3	365.2	358.2
70°	340.5	340.5	340.5	336.8	329.8	326.2	322.7	315.6	312.0	305.0	297.8
72.5°	280.1	280.1	276.6	276.6	273.1	269.4	265.9	258.9	258.9	251.7	244.7
75°	226.9	226.9	223.4	219.9	216.4	216.4	212.7	209.2	202.2	198.5	195.0
77.5°	173.8	173.8	173.8	170.2	166.7	166.7	166.7	159.5	152.5	152.5	149.0
80°	127.6	127.6	124.1	124.1	120.6	120.6	120.6	117.0	113.4	109.9	106.4
82.5°	85.1	85.1	85.1	85.1	81.6	81.6	81.6	78.1	74.4	74.4	74.4
85°	49.7	49.7	49.7	49.7	46.1	46.1	46.1	46.1	46.1	42.5	42.5
87.5°	21.3	17.7	21.3	17.7	21.3	17.7	21.3	17.7	17.7	17.7	17.7
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°	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4
2.5°	2524.7	2521.2	2517.6	2514.1	2514.1	2510.5	2503.4	2499.9	2496.4	2492.8	2492.8
5°	2538.9	2535.4	2528.2	2521.2	2517.6	2510.5	2503.4	2496.4	2489.2	2478.7	2475.0
7.5°	2549.6	2538.9	2531.8	2517.6	2514.1	2507.0	2496.4	2485.7	2471.5	2457.3	2446.7
10°	2549.6	2535.4	2524.7	2507.0	2499.9	2492.8	2478.7	2460.8	2443.2	2429.0	2411.3
12.5°	2542.4	2524.7	2507.0	2489.2	2478.7	2468.0	2446.7	2429.0	2407.6	2386.4	2372.2
15°	2517.6	2496.4	2475.0	2453.8	2443.2	2429.0	2407.6	2382.9	2361.6	2340.4	2315.5
17.5°	2471.5	2450.2	2425.5	2400.6	2386.4	2375.8	2343.9	2326.2	2294.2	2273.0	2251.6
20°	2411.3	2386.4	2354.5	2329.7	2312.0	2301.3	2276.5	2244.6	2219.8	2187.9	2166.6
22.5°	2333.2	2301.3	2269.3	2244.6	2226.8	2212.6	2180.7	2148.9	2127.5	2099.2	2074.3
25°	2241.0	2209.1	2177.2	2141.7	2124.0	2109.8	2081.5	2053.1	2024.7	1992.9	1971.5
27.5°	2131.2	2095.7	2067.3	2035.4	2017.6	1996.4	1964.5	1936.0	1907.7	1886.5	1858.1
30°	2010.6	1971.5	1943.2	1911.3	1893.5	1875.8	1843.9	1815.5	1790.7	1765.9	1751.7
32.5°	1865.1	1836.8	1808.4	1776.5	1762.3	1751.7	1719.8	1691.4	1663.1	1641.7	1631.1
35°	1726.8	1694.9	1670.1	1641.7	1624.0	1613.4	1585.0	1560.2	1546.0	1521.3	1507.1
37.5°	1581.5	1556.7	1528.3	1499.9	1489.3	1478.7	1457.4	1432.5	1411.3	1393.5	1386.5
40°	1429.0	1407.7	1383.0	1365.1	1354.6	1343.9	1326.2	1308.4	1294.2	1276.5	1269.4
42.5°	1283.6	1269.4	1248.2	1226.8	1216.3	1212.7	1191.5	1177.3	1170.1	1163.1	1155.9
45°	1152.4	1131.1	1116.9	1102.7	1092.2	1085.0	1074.4	1063.8	1056.7	1049.6	1042.5
47.5°	1024.8	1007.1	992.9	982.3	971.6	968.1	960.9	950.3	943.2	943.2	943.2
50°	907.7	893.5	879.4	872.3	868.8	861.7	854.6	851.0	847.5	847.5	847.5
52.5°	804.9	790.7	780.1	773.1	773.1	765.9	758.9	755.2	755.2	755.2	755.2
55°	709.2	698.5	691.5	684.3	677.3	673.8	673.8	673.8	670.1	670.1	673.8
57.5°	624.1	616.9	606.4	599.2	595.7	595.7	592.2	588.6	592.2	595.7	599.2
60°	546.0	539.0	535.5	524.8	524.8	524.8	521.3	521.3	521.3	524.8	528.3
62.5°	475.1	471.6	464.5	460.9	457.4	457.4	453.9	453.9	453.9	453.9	457.4
65°	411.4	404.2	397.2	397.2	397.2	393.6	393.6	386.5	390.0	390.0	386.5
67.5°	351.0	344.0	340.5	336.8	333.3	333.3	329.8	326.2	322.7	322.7	322.7
70°	294.3	287.3	287.3	280.1	280.1	276.6	273.1	273.1	269.4	265.9	262.4
72.5°	237.6	234.0	230.5	226.9	226.9	226.9	223.4	219.9	216.4	212.7	205.7
75°	188.0	188.0	180.8	177.3	177.3	173.8	170.2	166.7	163.1	159.5	156.0
77.5°	145.3	141.8	134.8	131.1	131.1	131.1	127.6	124.1	120.6	117.0	113.4
80°	106.4	102.8	99.3	95.8	95.8	95.8	92.2	92.2	88.6	88.6	88.6
82.5°	70.9	70.9	67.4	67.4	67.4	67.4	63.9	63.9	63.9	63.9	63.9
85°	42.5	42.5	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
87.5°	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7
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°	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4
2.5°	2485.7	2485.7	2478.7	2475.0	2471.5	2475.0	2468.0	2464.5	2460.8	2460.8	2457.3
5°	2464.5	2460.8	2446.7	2443.2	2439.6	2436.0	2429.0	2421.8	2414.8	2411.3	2407.6
7.5°	2436.0	2425.5	2411.3	2407.6	2404.1	2393.5	2382.9	2375.8	2365.1	2361.6	2354.5
10°	2397.1	2382.9	2372.2	2361.6	2354.5	2343.9	2333.2	2322.6	2308.4	2304.9	2294.2
12.5°	2350.9	2333.2	2312.0	2308.4	2297.8	2283.5	2269.3	2258.8	2248.1	2241.0	2230.4
15°	2294.2	2276.5	2255.2	2244.6	2233.9	2223.3	2205.6	2191.4	2180.7	2170.1	2159.5
17.5°	2226.8	2205.6	2187.9	2177.2	2170.1	2152.4	2138.2	2120.5	2109.8	2099.2	2088.5
20°	2145.3	2127.5	2102.7	2092.1	2088.5	2074.3	2056.6	2049.6	2035.4	2024.7	2017.6
22.5°	2053.1	2035.4	2014.1	2007.0	1992.9	1985.7	1968.0	1960.9	1953.8	1943.2	1939.7
25°	1950.2	1932.5	1914.8	1911.3	1900.6	1893.5	1882.9	1872.3	1872.3	1861.6	1861.6
27.5°	1843.9	1826.2	1812.0	1804.9	1801.4	1794.2	1783.5	1780.0	1776.5	1773.0	1773.0
30°	1730.5	1709.1	1702.1	1698.5	1694.9	1687.9	1684.3	1677.2	1680.8	1684.3	1680.8
32.5°	1609.9	1602.7	1588.5	1581.5	1585.0	1581.5	1574.3	1581.5	1578.0	1585.0	1588.5
35°	1492.9	1485.7	1478.7	1478.7	1471.6	1471.6	1471.6	1475.1	1482.2	1485.7	1492.9
37.5°	1379.3	1368.8	1365.1	1361.6	1365.1	1365.1	1365.1	1372.3	1379.3	1386.5	1397.1
40°	1258.8	1251.7	1251.7	1251.7	1251.7	1262.4	1258.8	1265.9	1273.0	1283.6	1294.2
42.5°	1145.4	1145.4	1148.9	1148.9	1148.9	1148.9	1155.9	1166.6	1177.3	1187.9	1198.5
45°	1039.0	1039.0	1039.0	1046.0	1046.0	1049.6	1063.8	1070.9	1078.0	1088.6	1099.2
47.5°	939.7	939.7	943.2	946.7	950.3	957.4	964.4	975.1	985.8	992.9	1003.5
50°	847.5	851.0	858.1	865.2	865.2	868.8	879.4	886.5	893.5	904.2	907.7
52.5°	758.9	765.9	773.1	776.6	780.1	787.2	790.7	801.4	804.9	815.6	819.1
55°	677.3	680.8	691.5	695.0	695.0	702.1	709.2	716.3	726.9	726.9	734.0
57.5°	602.8	606.4	613.4	616.9	613.4	624.1	627.6	634.8	638.3	645.3	648.9
60°	528.3	535.5	539.0	539.0	542.5	546.0	553.2	553.2	560.2	567.4	567.4
62.5°	457.4	460.9	464.5	468.1	471.6	468.1	478.6	478.6	485.8	489.3	496.5
65°	390.0	393.6	393.6	397.2	397.2	400.7	400.7	404.2	407.7	414.9	418.4
67.5°	322.7	322.7	322.7	326.2	322.7	326.2	326.2	329.8	329.8	336.8	340.5
70°	262.4	258.9	255.3	255.3	255.3	255.3	251.7	255.3	255.3	258.9	258.9
72.5°	202.2	198.5	195.0	191.5	191.5	188.0	184.4	188.0	188.0	191.5	191.5
75°	152.5	145.3	145.3	145.3	141.8	141.8	141.8	145.3	145.3	145.3	149.0
77.5°	113.4	113.4	109.9	109.9	109.9	113.4	113.4	117.0	117.0	117.0	117.0
80°	85.1	88.6	88.6	88.6	88.6	92.2	92.2	92.2	92.2	95.8	95.8
82.5°	63.9	63.9	63.9	63.9	67.4	67.4	67.4	67.4	67.4	67.4	67.4
85°	39.0	42.5	42.5	39.0	42.5	42.5	42.5	42.5	42.5	42.5	42.5
87.5°	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7
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: P584948

CATALOG NUMBER: HCC8S55D010BZ-HM82555830-81WWWB

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4
2.5°	2453.8	2453.8	2453.8	2453.8	2450.2	2450.2	2450.2	2446.7
5°	2400.6	2400.6	2400.6	2393.5	2397.1	2397.1	2389.9	2393.5
7.5°	2347.4	2343.9	2340.4	2340.4	2336.7	2333.2	2329.7	2333.2
10°	2287.2	2276.5	2276.5	2273.0	2273.0	2265.8	2265.8	2269.3
12.5°	2219.8	2212.6	2212.6	2209.1	2205.6	2202.1	2198.4	2198.4
15°	2152.4	2145.3	2141.7	2138.2	2134.7	2127.5	2131.2	2127.5
17.5°	2085.0	2074.3	2074.3	2070.8	2067.3	2060.1	2060.1	2056.6
20°	2007.0	2003.4	1996.4	1999.9	1996.4	1989.2	1985.7	1985.7
22.5°	1929.0	1929.0	1925.5	1925.5	1921.8	1918.3	1914.8	1914.8
25°	1854.6	1850.9	1854.6	1854.6	1843.9	1843.9	1843.9	1847.4
27.5°	1769.4	1773.0	1769.4	1769.4	1769.4	1769.4	1773.0	1769.4
30°	1684.3	1684.3	1684.3	1687.9	1694.9	1691.4	1691.4	1687.9
32.5°	1592.2	1595.7	1595.7	1599.2	1602.7	1609.9	1609.9	1613.4
35°	1499.9	1507.1	1510.6	1507.1	1517.6	1517.6	1524.8	1524.8
37.5°	1404.2	1407.7	1414.8	1418.4	1425.5	1429.0	1432.5	1432.5
40°	1301.4	1315.6	1319.1	1322.6	1333.3	1333.3	1336.8	1343.9
42.5°	1205.6	1219.8	1223.3	1226.8	1234.0	1244.7	1241.0	1248.2
45°	1113.4	1124.1	1127.6	1131.1	1141.8	1145.4	1145.4	1155.9
47.5°	1014.1	1021.3	1024.8	1031.8	1039.0	1046.0	1053.2	1049.6
50°	914.9	925.5	932.6	936.1	946.7	950.3	953.9	957.4
52.5°	826.3	833.3	836.8	840.4	851.0	854.6	858.1	865.2
55°	741.1	744.7	751.7	748.2	758.9	762.4	765.9	773.1
57.5°	656.0	659.6	663.1	663.1	670.1	677.3	680.8	684.3
60°	574.4	581.5	585.1	585.1	585.1	592.2	592.2	592.2
62.5°	500.0	500.0	503.5	503.5	510.6	510.6	510.6	510.6
65°	421.9	425.6	429.1	429.1	436.1	432.6	439.7	436.1
67.5°	340.5	340.5	347.5	347.5	344.0	347.5	347.5	347.5
70°	258.9	258.9	262.4	262.4	262.4	262.4	262.4	262.4
72.5°	191.5	191.5	191.5	195.0	191.5	191.5	195.0	191.5
75°	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0
77.5°	117.0	117.0	120.6	120.6	120.6	120.6	120.6	120.6
80°	95.8	95.8	95.8	95.8	99.3	95.8	95.8	95.8
82.5°	70.9	67.4	70.9	67.4	70.9	70.9	70.9	70.9
85°	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
87.5°	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7
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)