

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: P584412

Luminaire Tested: **HCC8S35D010SL-HM82555835-81RWWC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584412  
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: HCC8S35D010SL-HM82555835-81RWWC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

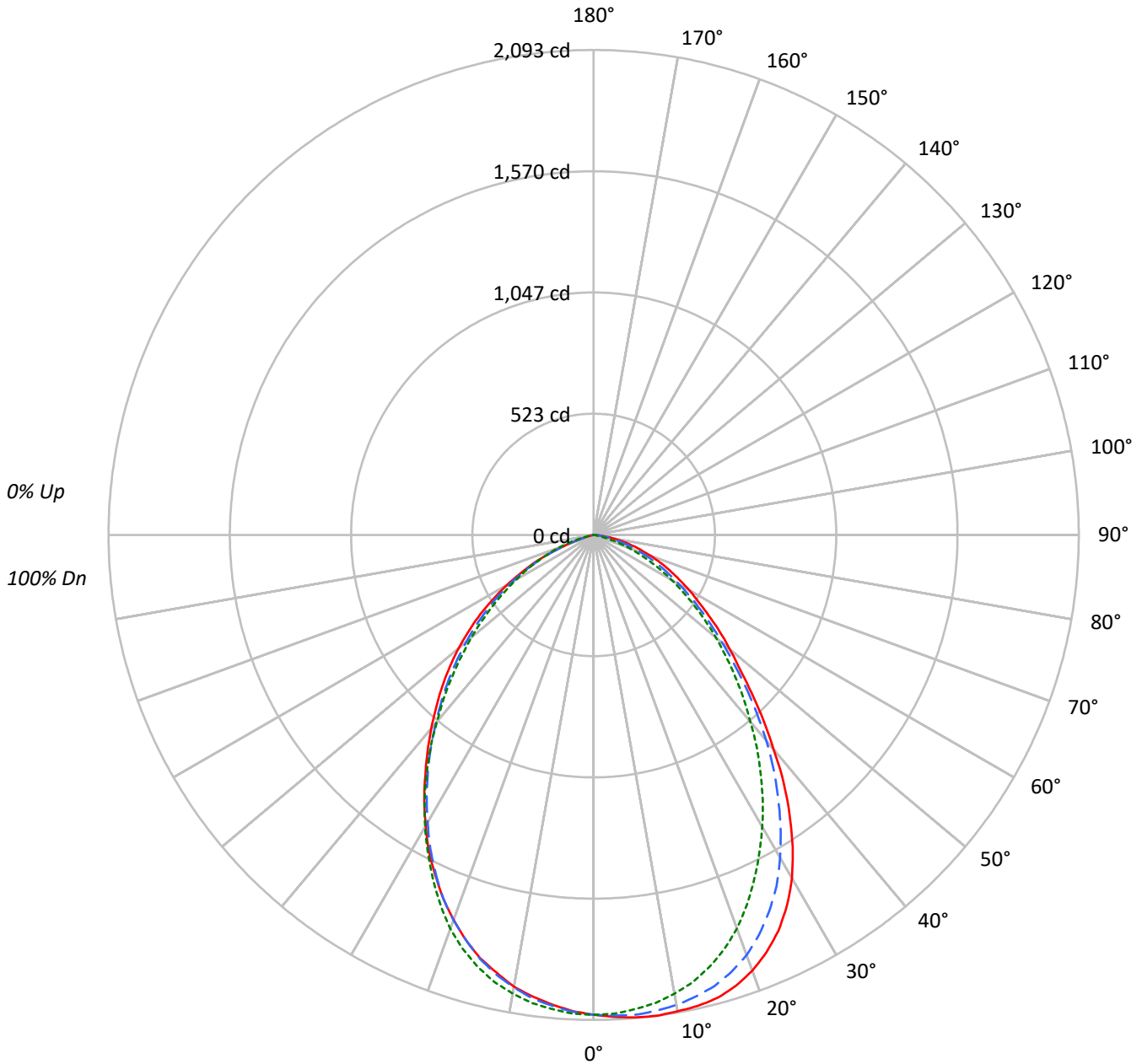
Lumens per Lamp: N/A  
Luminaire Lumens: 3935.8 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
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	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°	63859	63859	63859
5°	64700	63586	62989
10°	65361	62937	61985
15°	66022	61610	60375
20°	65686	59333	57975
25°	64159	55786	55031
30°	60941	51783	51583
35°	55476	47255	47669
40°	48635	42291	43849
45°	41956	37622	40269
50°	36742	33029	36479
55°	32553	28391	32106
60°	29332	23873	26599
65°	26428	19161	20379
70°	23180	13957	11225
75°	19766	7256	2967
80°	15219	1953	497
85°	9800	0	0

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Scaled Data Report

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.4	5.0
10°-20°	549.3	14.0
20°-30°	779.6	19.8
30°-40°	820.6	20.9
40°-50°	698.1	17.7
50°-60°	504.5	12.8
60°-70°	286.9	7.3
70°-80°	90.4	2.3
80°-90°	11.0	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°	1524.2	38.7
0°-40°	2344.9	59.6
0°-60°	3547.4	90.1
0°-90°	3935.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3935.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2071	2071	2071	2071	2071	
5°	2090	2079	2054	2040	2035	199
15°	2068	2016	1930	1894	1891	582
25°	1886	1792	1640	1612	1617	864
35°	1474	1388	1255	1247	1266	917
45°	962	926	863	885	923	748
55°	606	561	528	558	597	546
65°	362	312	263	260	279	359
75°	166	127	61	28	25	178
85°	28	16	0	0	0	36
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°	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9
2.5°	2081.9	2084.6	2079.1	2079.1	2084.6	2079.1	2081.9	2081.9	2079.1	2079.1	2076.4
5°	2090.2	2087.4	2087.4	2087.4	2090.2	2084.6	2081.9	2084.6	2079.1	2079.1	2079.1
7.5°	2092.9	2092.9	2090.2	2087.4	2087.4	2087.4	2084.6	2081.9	2079.1	2073.6	2070.9
10°	2087.4	2087.4	2090.2	2084.6	2084.6	2079.1	2079.1	2073.6	2073.6	2068.1	2059.8
12.5°	2081.9	2079.1	2079.1	2073.6	2073.6	2068.1	2068.1	2059.8	2057.0	2048.7	2040.4
15°	2068.1	2065.4	2059.8	2057.0	2054.2	2051.5	2045.9	2043.2	2034.9	2023.8	2015.5
17.5°	2040.4	2037.7	2034.9	2029.4	2023.8	2021.0	2018.3	2010.0	1999.0	1990.7	1976.8
20°	2001.7	1999.0	1999.0	1990.7	1987.8	1979.6	1976.8	1965.8	1957.5	1940.9	1929.9
22.5°	1949.1	1951.9	1946.4	1940.9	1935.4	1927.1	1921.6	1910.5	1896.7	1880.0	1866.2
25°	1885.7	1888.4	1882.8	1877.3	1869.0	1863.5	1858.0	1841.3	1827.5	1808.1	1791.6
27.5°	1805.4	1805.4	1805.4	1799.9	1786.1	1783.3	1777.7	1761.2	1741.8	1725.2	1708.7
30°	1711.5	1708.7	1708.7	1700.3	1694.8	1683.8	1675.5	1661.6	1647.8	1628.4	1609.2
32.5°	1598.0	1600.8	1592.5	1587.0	1578.7	1578.7	1567.7	1556.6	1540.0	1520.6	1501.3
35°	1473.7	1476.4	1470.9	1468.1	1454.3	1451.5	1448.7	1435.0	1423.8	1410.0	1387.9
37.5°	1346.4	1343.7	1340.9	1340.9	1332.7	1327.1	1321.6	1313.2	1296.7	1285.7	1274.6
40°	1208.2	1208.2	1208.2	1205.4	1202.7	1197.2	1194.4	1188.9	1177.8	1166.7	1158.5
42.5°	1083.8	1083.8	1081.1	1078.3	1072.7	1075.6	1069.9	1064.4	1053.4	1045.1	1039.6
45°	962.1	962.1	962.1	964.9	959.4	951.1	951.1	945.6	940.1	934.6	926.2
47.5°	854.3	862.7	857.0	854.3	857.0	846.0	846.0	840.5	835.0	829.5	818.4
50°	765.9	765.9	765.9	760.4	757.6	757.6	749.2	743.7	741.0	735.5	724.4
52.5°	685.6	680.1	680.1	677.3	674.6	669.1	669.1	663.6	652.6	646.9	638.7
55°	605.5	605.5	602.7	600.0	597.2	594.4	591.7	583.4	577.8	569.5	561.3
57.5°	533.6	539.1	536.3	530.8	525.3	525.3	519.8	514.3	505.9	497.6	489.4
60°	475.6	472.7	472.7	470.0	464.5	461.7	459.0	450.7	442.4	434.0	425.8
62.5°	414.7	414.7	414.7	409.2	403.6	400.9	398.1	392.6	381.6	373.3	367.7
65°	362.2	359.4	356.6	353.9	351.1	345.6	342.9	337.4	329.0	320.7	312.4
67.5°	309.7	306.9	306.9	304.2	295.8	293.0	293.0	284.8	276.5	268.2	259.8
70°	257.1	257.1	257.1	251.6	248.8	246.1	243.3	237.8	229.5	221.2	212.9
72.5°	212.9	210.1	210.1	207.4	199.1	196.4	193.5	188.0	179.7	174.2	168.7
75°	165.9	165.9	163.2	160.4	157.5	154.8	152.0	146.5	138.2	130.0	127.2
77.5°	127.2	124.5	124.5	121.6	116.1	113.3	113.3	107.8	99.6	94.0	88.5
80°	85.7	88.5	85.7	82.9	80.1	77.4	74.6	71.9	66.4	60.9	55.3
82.5°	52.5	55.3	52.5	52.5	49.7	47.0	47.0	41.5	38.7	35.9	33.2
85°	27.7	27.7	27.7	27.7	24.9	24.9	24.9	22.2	19.4	16.5	16.5
87.5°	8.3	11.0	8.3	8.3	8.3	8.3	8.3	8.3	5.5	5.5	5.5
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°	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9
2.5°	2079.1	2076.4	2073.6	2073.6	2073.6	2073.6	2073.6	2070.9	2068.1	2068.1	2068.1
5°	2073.6	2073.6	2073.6	2070.9	2068.1	2068.1	2062.6	2059.8	2057.0	2054.2	2051.5
7.5°	2068.1	2062.6	2059.8	2057.0	2054.2	2054.2	2048.7	2043.2	2043.2	2037.7	2032.2
10°	2051.5	2048.7	2043.2	2037.7	2034.9	2032.2	2026.7	2018.3	2015.5	2010.0	2004.5
12.5°	2032.2	2026.7	2021.0	2010.0	2007.2	2004.5	1993.5	1985.1	1979.6	1976.8	1963.0
15°	2007.2	1996.2	1987.8	1974.1	1971.3	1965.8	1957.5	1949.1	1938.1	1929.9	1924.3
17.5°	1963.0	1951.9	1938.1	1924.3	1918.7	1918.7	1904.9	1893.9	1880.0	1874.5	1863.5
20°	1910.5	1896.7	1885.7	1869.0	1860.7	1852.5	1844.1	1827.5	1816.5	1808.1	1794.4
22.5°	1849.7	1830.3	1816.5	1799.9	1786.1	1777.7	1763.9	1750.2	1736.3	1728.0	1717.0
25°	1772.2	1755.7	1733.5	1717.0	1708.7	1697.6	1681.0	1667.1	1653.4	1639.6	1634.0
27.5°	1686.5	1664.4	1645.1	1625.7	1617.4	1609.2	1589.7	1573.2	1562.1	1548.3	1542.8
30°	1592.5	1570.5	1548.3	1531.8	1523.4	1509.6	1498.6	1479.2	1465.4	1454.3	1440.5
32.5°	1484.7	1468.1	1448.7	1423.8	1418.3	1407.3	1390.6	1382.4	1365.8	1357.6	1346.4
35°	1368.6	1357.6	1338.2	1318.8	1310.5	1305.0	1291.2	1274.6	1263.5	1255.3	1249.6
37.5°	1258.0	1244.1	1224.8	1210.9	1205.4	1197.2	1180.6	1172.2	1161.2	1155.7	1144.7
40°	1139.1	1125.3	1111.5	1103.1	1094.9	1089.3	1078.3	1069.9	1058.9	1050.6	1047.9
42.5°	1023.0	1014.7	1003.7	992.5	989.8	981.5	976.0	967.6	959.4	956.6	948.3
45°	917.9	909.6	898.6	887.5	884.7	879.2	876.5	868.2	862.7	862.7	862.7
47.5°	812.8	804.6	793.6	787.9	790.7	779.7	779.7	776.9	771.4	771.4	774.1
50°	718.8	707.8	705.0	699.5	694.0	688.5	691.2	682.9	682.9	688.5	685.6
52.5°	630.4	619.4	616.6	611.0	608.2	608.2	605.5	605.5	602.7	605.5	605.5
55°	550.2	541.9	536.3	530.8	528.1	528.1	528.1	525.3	522.6	528.1	530.8
57.5°	478.4	475.6	470.0	461.7	459.0	456.2	453.4	453.4	453.4	453.4	456.2
60°	414.7	409.2	403.6	395.3	395.3	392.6	389.8	387.1	387.1	387.1	387.1
62.5°	359.4	351.1	342.9	337.4	334.6	331.7	329.0	323.5	323.5	323.5	323.5
65°	304.2	295.8	290.3	284.8	279.3	279.3	273.7	271.0	265.5	262.6	257.1
67.5°	251.6	246.1	240.6	232.3	229.5	226.7	221.2	218.4	210.1	207.4	204.6
70°	204.6	196.4	190.7	185.2	182.5	176.9	171.4	165.9	160.4	154.8	149.3
72.5°	160.4	152.0	146.5	141.0	135.5	135.5	127.2	121.6	113.3	107.8	99.6
75°	118.8	110.6	105.1	96.8	94.0	91.3	82.9	77.4	69.1	60.9	55.3
77.5°	80.1	74.6	69.1	60.9	55.3	55.3	47.0	41.5	35.9	27.7	24.9
80°	49.7	44.2	38.7	33.2	33.2	27.7	24.9	19.4	13.8	11.0	8.3
82.5°	27.7	24.9	22.2	16.5	16.5	13.8	11.0	8.3	5.5	2.8	2.8
85°	13.8	11.0	8.3	8.3	5.5	5.5	5.5	2.8	2.8	0.0	0.0
87.5°	5.5	2.8	2.8	2.8	2.8	2.8	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°	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9
2.5°	2065.4	2065.4	2062.6	2062.6	2062.6	2059.8	2062.6	2059.8	2059.8	2059.8	2062.6
5°	2054.2	2048.7	2048.7	2045.9	2045.9	2043.2	2045.9	2043.2	2040.4	2037.7	2040.4
7.5°	2032.2	2026.7	2023.8	2021.0	2021.0	2021.0	2018.3	2015.5	2018.3	2010.0	2015.5
10°	2001.7	1999.0	1993.5	1990.7	1987.8	1990.7	1987.8	1982.3	1982.3	1982.3	1979.6
12.5°	1963.0	1957.5	1954.8	1951.9	1946.4	1946.4	1949.1	1943.6	1943.6	1938.1	1938.1
15°	1916.0	1910.5	1904.9	1904.9	1899.4	1899.4	1896.7	1896.7	1893.9	1891.2	1891.2
17.5°	1858.0	1849.7	1844.1	1846.8	1844.1	1841.3	1841.3	1835.8	1833.1	1835.8	1835.8
20°	1788.9	1783.3	1777.7	1780.6	1775.0	1772.2	1775.0	1766.7	1769.4	1769.4	1769.4
22.5°	1711.5	1708.7	1700.3	1700.3	1694.8	1692.1	1694.8	1694.8	1697.6	1694.8	1694.8
25°	1625.7	1620.2	1614.7	1614.7	1611.9	1609.2	1611.9	1614.7	1611.9	1614.7	1614.7
27.5°	1534.5	1526.1	1526.1	1520.6	1520.6	1523.4	1520.6	1523.4	1526.1	1526.1	1531.8
30°	1435.0	1432.2	1429.5	1426.7	1426.7	1429.5	1429.5	1429.5	1432.2	1437.7	1437.7
32.5°	1340.9	1335.4	1329.9	1329.9	1335.4	1332.7	1335.4	1335.4	1340.9	1340.9	1346.4
35°	1238.6	1238.6	1233.1	1235.9	1235.9	1235.9	1235.9	1241.4	1246.9	1249.6	1255.3
37.5°	1144.7	1136.3	1139.1	1139.1	1141.8	1139.1	1147.4	1147.4	1153.0	1153.0	1158.5
40°	1042.4	1042.4	1045.1	1042.4	1045.1	1045.1	1050.6	1056.2	1058.9	1064.4	1067.2
42.5°	945.6	951.1	945.6	948.3	951.1	953.8	956.6	959.4	970.5	976.0	984.3
45°	857.0	859.8	862.7	865.4	862.7	868.2	870.9	876.5	884.7	887.5	890.2
47.5°	771.4	774.1	776.9	779.7	779.7	785.2	787.9	793.6	799.1	801.8	804.6
50°	688.5	694.0	696.8	696.8	699.5	705.0	710.5	710.5	716.0	724.4	727.2
52.5°	613.7	613.7	619.4	622.1	624.9	624.9	633.1	635.9	638.7	644.2	649.7
55°	530.8	539.1	541.9	541.9	547.5	553.0	555.8	558.5	558.5	569.5	569.5
57.5°	459.0	461.7	467.2	467.2	467.2	475.6	475.6	481.1	483.9	486.6	492.1
60°	387.1	392.6	392.6	395.3	392.6	398.1	400.9	406.5	409.2	412.0	414.7
62.5°	320.7	320.7	323.5	323.5	323.5	323.5	329.0	329.0	334.6	337.4	340.1
65°	257.1	257.1	257.1	257.1	257.1	257.1	257.1	257.1	259.8	259.8	265.5
67.5°	199.1	196.4	190.7	193.5	190.7	190.7	188.0	188.0	190.7	190.7	196.4
70°	143.8	141.0	135.5	135.5	132.7	130.0	127.2	124.5	121.6	121.6	121.6
72.5°	94.0	88.5	80.1	77.4	77.4	71.9	66.4	63.6	63.6	63.6	63.6
75°	47.0	41.5	35.9	33.2	33.2	27.7	30.4	27.7	27.7	27.7	27.7
77.5°	19.4	13.8	11.0	11.0	11.0	8.3	8.3	8.3	8.3	8.3	8.3
80°	5.5	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
82.5°	2.8	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: P584412

CATALOG NUMBER: HCC8S35D010SL-HM82555835-81RWWC

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9
2.5°	2059.8	2059.8	2054.2	2057.0	2057.0	2057.0	2057.0	2057.0
5°	2034.9	2037.7	2034.9	2037.7	2037.7	2034.9	2034.9	2034.9
7.5°	2010.0	2012.8	2010.0	2012.8	2012.8	2012.8	2010.0	2010.0
10°	1979.6	1979.6	1979.6	1979.6	1979.6	1976.8	1979.6	1979.6
12.5°	1938.1	1938.1	1938.1	1940.9	1940.9	1938.1	1938.1	1935.4
15°	1893.9	1888.4	1891.2	1893.9	1891.2	1891.2	1891.2	1891.2
17.5°	1833.1	1835.8	1833.1	1833.1	1833.1	1833.1	1835.8	1833.1
20°	1769.4	1769.4	1772.2	1769.4	1769.4	1769.4	1769.4	1766.7
22.5°	1697.6	1694.8	1694.8	1697.6	1697.6	1694.8	1697.6	1697.6
25°	1617.4	1620.2	1617.4	1617.4	1620.2	1620.2	1620.2	1617.4
27.5°	1531.8	1534.5	1537.3	1534.5	1534.5	1534.5	1537.3	1540.0
30°	1443.2	1448.7	1443.2	1443.2	1448.7	1446.0	1448.7	1448.7
32.5°	1349.2	1357.6	1351.9	1357.6	1357.6	1360.3	1357.6	1360.3
35°	1255.3	1263.5	1263.5	1263.5	1266.3	1269.0	1269.0	1266.3
37.5°	1166.7	1169.5	1169.5	1175.0	1177.8	1180.6	1180.6	1177.8
40°	1075.6	1081.1	1083.8	1083.8	1083.8	1089.3	1094.9	1089.3
42.5°	987.0	989.8	992.5	992.5	998.1	1000.8	1003.7	1003.7
45°	901.4	906.9	909.6	912.4	915.2	920.7	917.9	923.4
47.5°	812.8	821.1	823.9	826.6	832.3	835.0	837.8	840.5
50°	732.7	738.2	738.2	743.7	752.0	752.0	757.6	760.4
52.5°	652.6	655.3	658.1	660.8	666.3	671.8	671.8	677.3
55°	575.0	577.8	577.8	580.6	583.4	594.4	597.2	597.2
57.5°	494.9	494.9	500.4	503.2	505.9	511.5	511.5	511.5
60°	417.5	420.3	420.3	423.0	425.8	431.3	434.0	431.3
62.5°	340.1	342.9	342.9	345.6	351.1	353.9	351.1	351.1
65°	268.2	271.0	271.0	273.7	279.3	279.3	276.5	279.3
67.5°	196.4	196.4	196.4	196.4	196.4	196.4	196.4	196.4
70°	124.5	121.6	118.8	121.6	121.6	121.6	118.8	124.5
72.5°	60.9	63.6	63.6	63.6	63.6	63.6	63.6	60.9
75°	27.7	27.7	24.9	24.9	24.9	27.7	27.7	24.9
77.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
80°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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

Scaled Data Report



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

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(END OF REPORT)