

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: P584787

Luminaire Tested: **HCC8W50D010SL-HM82555827-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584787  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W50D010SL-HM82555827-81RWWH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

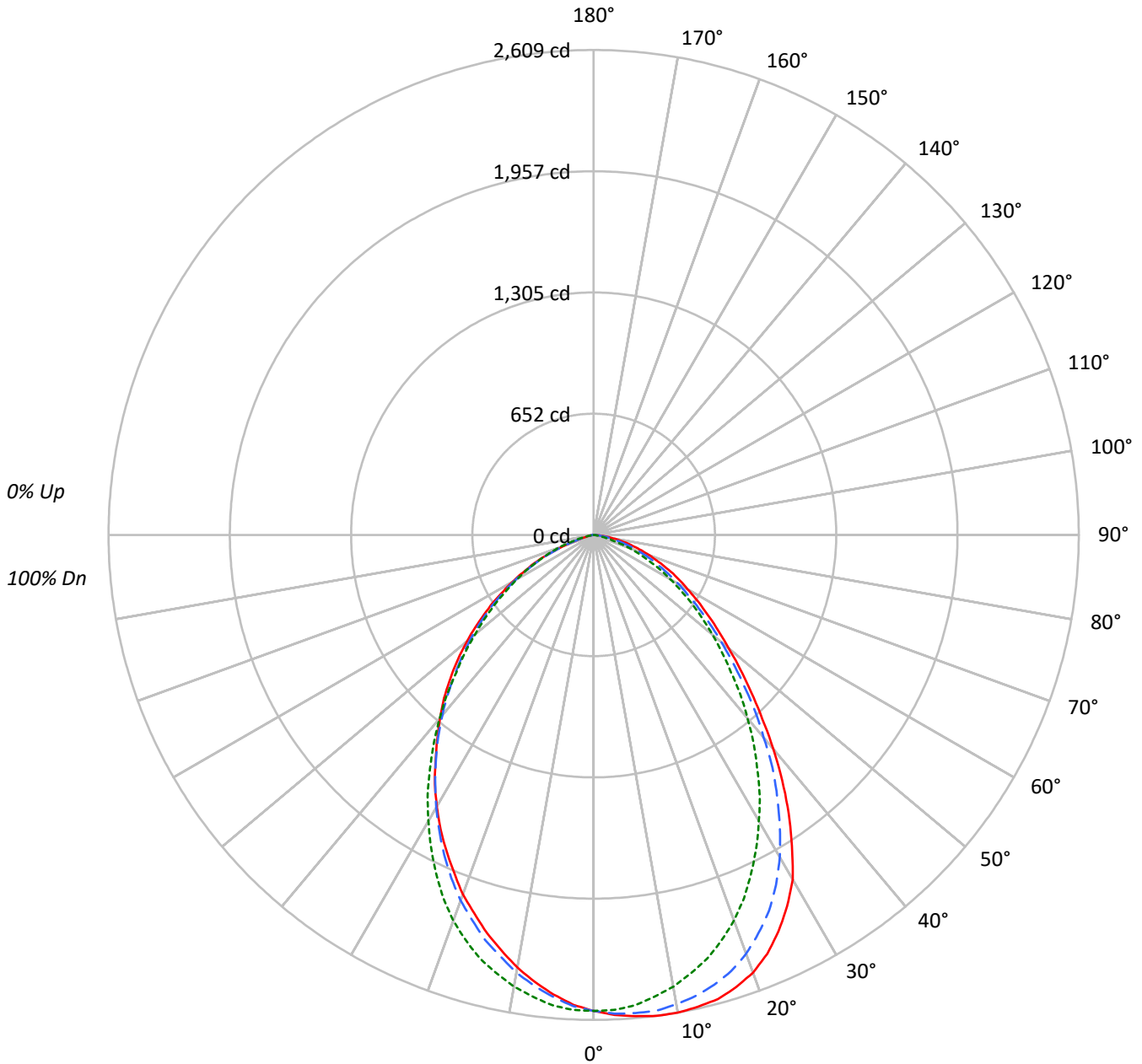
Lumens per Lamp: N/A  
Luminaire Lumens: 4800.8 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (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



TEST NUMBER: P584787  
CATALOG NUMBER: HCC8W50D010SL-HM82555827-81RWWH

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab  
 1121 Highway 74 South  
 Peachtree City, GA 30269



TEST NUMBER: P584787

CATALOG NUMBER: HCC8W50D010SL-HM82555827-81RWWH

**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	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	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77								
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67								
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59								
5	81	70	62	56	79	69	62	56	67	60	55	65	59	55	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47								
7	71	58	51	45	69	58	50	45	56	49	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	41	37	47	41	37	46	41	36	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°	78969	78969	78969
5°	80450	78623	76800
10°	81706	77253	73993
15°	82527	75328	70789
20°	82216	72423	67524
25°	80049	68242	63754
30°	76234	63259	60047
35°	68840	57735	55777
40°	60482	51823	51682
45°	52209	45550	47517
50°	45449	39952	42614
55°	40300	34698	37122
60°	35955	29319	30812
65°	32411	23801	24312
70°	28788	17834	14389
75°	24805	10330	6195
80°	19090	3694	1847
85°	12277	1238	1238



TEST NUMBER: P584787

CATALOG NUMBER: HCC8W50D010SL-HM82555827-81RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.4	5.0
10°-20°	669.2	13.9
20°-30°	946.5	19.7
30°-40°	997.4	20.8
40°-50°	847.7	17.7
50°-60°	610.4	12.7
60°-70°	352.1	7.3
70°-80°	120.5	2.5
80°-90°	16.6	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°	1856.2	38.7
0°-40°	2853.6	59.4
0°-60°	4311.7	89.8
0°-90°	4800.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4800.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2561	2561	2561	2561	2561	
5°	2599	2582	2540	2495	2481	248
15°	2585	2505	2360	2256	2217	728
25°	2353	2231	2006	1902	1874	1079
35°	1829	1721	1534	1478	1482	1139
45°	1197	1142	1044	1051	1090	930
55°	750	690	645	670	690	674
65°	444	382	326	319	333	442
75°	208	156	87	56	52	220
85°	35	21	4	4	4	47
90°	0	0	0	0	0	



TEST NUMBER: P584787

CATALOG NUMBER: HCC8W50D010SL-HM82555827-81RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9
2.5°	2585.1	2588.6	2585.1	2585.1	2581.7	2578.2	2574.7	2571.3	2564.3	2557.4	2557.4
5°	2599.0	2605.9	2599.0	2599.0	2588.6	2581.7	2574.7	2564.3	2550.4	2540.0	2540.0
7.5°	2609.4	2609.4	2609.4	2599.0	2592.1	2581.7	2564.3	2547.0	2529.6	2512.3	2505.4
10°	2609.4	2609.4	2605.9	2592.1	2585.1	2564.3	2547.0	2522.7	2498.4	2474.1	2467.2
12.5°	2599.0	2602.5	2595.5	2581.7	2564.3	2540.0	2515.8	2484.6	2456.8	2429.1	2415.2
15°	2585.1	2581.7	2574.7	2557.4	2536.6	2505.4	2481.1	2446.4	2408.1	2373.5	2359.6
17.5°	2550.4	2550.4	2540.0	2522.7	2495.0	2460.3	2422.1	2383.9	2342.2	2304.1	2286.8
20°	2505.4	2505.4	2491.5	2470.7	2442.9	2397.7	2356.1	2311.0	2262.5	2224.3	2207.0
22.5°	2439.5	2442.9	2425.6	2401.2	2370.0	2318.0	2276.3	2220.9	2172.2	2127.1	2113.2
25°	2352.7	2359.6	2342.2	2318.0	2276.3	2231.3	2179.1	2127.1	2071.6	2026.5	2005.7
27.5°	2252.1	2255.5	2238.2	2213.9	2172.2	2123.6	2071.6	2016.1	1964.0	1915.4	1894.6
30°	2141.0	2127.1	2120.2	2089.0	2043.9	2002.1	1943.2	1898.1	1842.6	1801.0	1776.6
32.5°	1984.8	1991.7	1970.9	1946.7	1912.0	1863.4	1814.9	1762.7	1710.7	1679.5	1662.1
35°	1828.7	1835.7	1825.3	1801.0	1762.7	1721.1	1672.6	1634.4	1589.3	1551.1	1533.7
37.5°	1665.6	1665.6	1658.7	1644.8	1617.1	1578.9	1530.2	1492.1	1453.9	1422.7	1412.3
40°	1502.5	1495.6	1492.1	1481.7	1457.4	1422.7	1391.5	1360.2	1322.0	1301.2	1287.4
42.5°	1342.9	1342.9	1335.9	1325.5	1301.2	1283.9	1252.7	1218.0	1190.2	1169.4	1169.4
45°	1197.2	1200.7	1190.2	1183.3	1169.4	1141.6	1113.8	1089.6	1065.3	1051.4	1044.5
47.5°	1068.8	1068.8	1058.4	1051.4	1037.5	1013.3	989.0	968.2	950.7	940.3	937.0
50°	947.4	947.4	947.4	929.9	912.6	895.2	877.9	853.6	843.2	836.3	832.8
52.5°	843.2	839.7	839.7	825.9	808.5	787.7	770.4	749.6	739.2	732.1	735.7
55°	749.6	749.6	746.1	728.8	711.3	690.5	673.2	655.8	648.9	641.9	645.4
56°	711.3	711.3	707.8	694.0	673.2	655.8	635.0	617.7	607.3	610.7	610.7
57°	683.6	676.6	676.6	659.3	641.9	617.7	600.3	583.0	576.0	572.6	572.6
58°	648.9	645.4	641.9	624.6	607.3	586.5	569.1	551.8	541.4	541.4	537.9
59°	614.2	614.2	607.3	593.4	576.0	555.2	537.9	520.6	510.0	506.6	506.6
60°	583.0	586.5	576.0	562.2	548.3	523.9	503.1	489.2	478.8	475.4	475.4
61°	555.2	555.2	548.3	531.0	513.5	496.2	475.4	458.0	451.1	444.2	444.2
62°	531.0	523.9	520.6	503.1	485.8	465.0	447.6	430.3	419.9	412.9	416.4
63°	499.6	496.2	489.2	475.4	458.0	437.2	416.4	402.5	392.1	381.7	385.2
64°	475.4	471.9	461.5	447.6	430.3	409.5	388.7	374.8	367.8	357.4	354.0
65°	444.2	440.7	437.2	419.9	402.5	381.7	364.4	350.5	340.1	333.2	326.2
66°	416.4	419.9	412.9	399.1	378.3	360.9	336.6	322.8	315.7	305.3	298.4
67°	392.1	392.1	385.2	371.3	350.5	333.2	315.7	298.4	288.0	277.6	274.1
67.5°	378.3	378.3	371.3	354.0	340.1	319.3	301.8	288.0	274.1	267.2	260.2
68°	364.4	364.4	360.9	347.0	329.7	308.8	291.4	274.1	260.2	249.8	246.4
69°	340.1	343.6	336.6	322.8	305.3	284.5	267.2	253.3	239.4	229.0	222.1
70°	319.3	315.7	308.8	294.9	277.6	263.7	246.4	229.0	215.1	201.3	197.8
71°	291.4	291.4	284.5	274.1	256.8	239.4	222.1	208.2	194.3	177.0	173.5
72°	270.6	270.6	263.7	249.8	235.9	218.6	201.3	183.9	173.5	156.2	149.2
72.5°	256.8	260.2	253.3	239.4	225.5	204.7	190.9	177.0	159.6	145.8	138.8
73°	249.8	246.4	242.9	229.0	211.7	197.8	180.5	166.6	149.2	135.4	128.4



TEST NUMBER: P584787

CATALOG NUMBER: HCC8W50D010SL-HM82555827-81RWWH

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	156.2	156.2	152.7	138.8	125.0	111.1	97.1	83.2	69.4	55.5	48.6
80°	107.5	111.1	104.2	97.1	86.7	72.8	59.0	48.6	34.7	27.7	20.8
82.5°	69.4	69.4	65.9	59.0	52.0	41.6	34.7	24.3	17.3	13.9	10.4
85°	34.7	38.2	34.7	31.2	24.3	20.8	17.3	10.4	6.9	3.5	3.5
87.5°	13.9	13.9	13.9	10.4	10.4	6.9	3.5	3.5	3.5	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: P584787

CATALOG NUMBER: HCC8W50D010SL-HM82555827-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9
2.5°	2550.4	2550.4	2543.5	2540.0	2536.6	2533.1	2529.6	2526.2	2526.2	2529.6
5°	2529.6	2522.7	2508.8	2505.4	2495.0	2491.5	2484.6	2481.1	2484.6	2481.1
7.5°	2498.4	2484.6	2467.2	2460.3	2446.4	2439.5	2429.1	2429.1	2422.1	2425.6
10°	2456.8	2436.0	2415.2	2401.2	2390.8	2380.4	2373.5	2366.5	2363.1	2363.1
12.5°	2404.7	2380.4	2359.6	2338.8	2321.4	2314.5	2300.6	2300.6	2293.7	2290.2
15°	2345.7	2314.5	2290.2	2269.4	2255.5	2241.7	2231.3	2224.3	2217.4	2217.4
17.5°	2269.4	2241.7	2217.4	2193.0	2172.2	2161.8	2151.4	2141.0	2141.0	2134.0
20°	2186.1	2154.9	2134.0	2109.8	2092.4	2075.1	2061.2	2061.2	2054.3	2057.7
22.5°	2092.4	2054.3	2033.5	2016.1	1998.8	1984.8	1970.9	1970.9	1967.5	1964.0
25°	1988.4	1957.1	1932.8	1912.0	1901.6	1887.7	1884.2	1877.3	1873.8	1873.8
27.5°	1877.3	1853.0	1821.8	1811.4	1797.5	1790.6	1790.6	1787.1	1780.2	1783.5
30°	1759.3	1731.5	1714.2	1707.2	1693.4	1693.4	1689.9	1683.0	1683.0	1686.4
32.5°	1644.8	1617.1	1603.2	1599.7	1585.7	1585.7	1582.4	1585.7	1585.7	1589.3
35°	1519.8	1495.6	1492.1	1481.7	1478.2	1478.2	1478.2	1485.2	1492.1	1481.7
37.5°	1401.9	1384.6	1374.2	1370.7	1374.2	1374.2	1377.5	1388.0	1384.6	1381.1
40°	1280.4	1266.6	1259.6	1259.6	1266.6	1273.5	1273.5	1283.9	1287.4	1283.9
42.5°	1158.9	1148.5	1148.5	1152.0	1158.9	1162.5	1172.9	1183.3	1186.8	1190.2
45°	1044.5	1044.5	1044.5	1047.9	1051.4	1058.4	1072.2	1082.6	1086.1	1089.6
47.5°	933.4	929.9	940.3	943.9	954.3	957.8	968.2	982.0	985.5	989.0
50°	829.3	836.3	839.7	850.1	857.1	857.1	871.0	877.9	888.3	888.3
52.5°	732.1	742.5	746.1	756.5	760.0	763.4	770.4	780.8	787.7	787.7
55°	645.4	648.9	655.8	659.3	669.7	673.2	680.1	683.6	694.0	690.5
56°	607.3	614.2	617.7	624.6	631.5	635.0	641.9	645.4	652.4	655.8
57°	572.6	576.0	586.5	589.9	596.9	596.9	600.3	610.7	610.7	614.2
58°	537.9	544.8	548.3	551.8	558.7	562.2	569.1	572.6	576.0	572.6
59°	506.6	510.0	513.5	513.5	520.6	520.6	531.0	537.9	541.4	541.4
60°	475.4	475.4	478.8	482.3	489.2	492.7	492.7	499.6	499.6	499.6
61°	444.2	444.2	447.6	451.1	454.6	454.6	461.5	461.5	465.0	468.4
62°	416.4	412.9	412.9	416.4	416.4	423.3	426.8	430.3	433.7	430.3
63°	385.2	381.7	381.7	381.7	381.7	388.7	388.7	392.1	399.1	395.6
64°	350.5	350.5	350.5	350.5	354.0	354.0	360.9	364.4	367.8	371.3
65°	326.2	319.3	315.7	315.7	319.3	322.8	326.2	329.7	333.2	333.2
66°	298.4	291.4	288.0	288.0	288.0	288.0	294.9	294.9	301.8	301.8
67°	267.2	260.2	256.8	253.3	253.3	253.3	263.7	260.2	260.2	260.2
67.5°	256.8	246.4	242.9	239.4	235.9	242.9	239.4	242.9	242.9	239.4
68°	242.9	235.9	229.0	222.1	222.1	222.1	225.5	229.0	225.5	222.1
69°	215.1	211.7	201.3	194.3	190.9	194.3	190.9	194.3	190.9	194.3
70°	190.9	180.5	170.0	166.6	163.1	163.1	163.1	159.6	163.1	159.6
71°	166.6	156.2	145.8	138.8	135.4	135.4	131.9	135.4	131.9	135.4
72°	142.3	131.9	118.0	111.1	111.1	111.1	111.1	107.5	111.1	107.5
72.5°	131.9	118.0	107.5	100.7	97.1	97.1	97.1	97.1	93.6	97.1
73°	121.5	107.5	93.6	90.2	90.2	90.2	86.7	83.2	86.7	86.7





TEST NUMBER: P584787  
 CATALOG NUMBER: HCC8W50D010SL-HM82555827-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	41.6	31.2	27.7	27.7	27.7	27.7	27.7	27.7	24.3	24.3
80°	17.3	13.9	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
82.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
85°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
87.5°	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

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



74°	225.5	225.5	218.6	208.2	190.9	173.5	159.6	145.8	128.4	111.1	104.2
75°	208.2	204.7	197.8	187.4	173.5	156.2	142.3	125.0	111.1	93.6	86.7

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



74°	100.7	83.2	76.3	69.4	69.4	69.4	65.9	65.9	65.9	69.4
75°	79.8	65.9	59.0	52.0	55.5	52.0	55.5	52.0	52.0	52.0

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)