

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: P584532

Luminaire Tested: **HCC8S40D010SL-HM82555830-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584532  
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: HCC8S40D010SL-HM82555830-81RWWH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

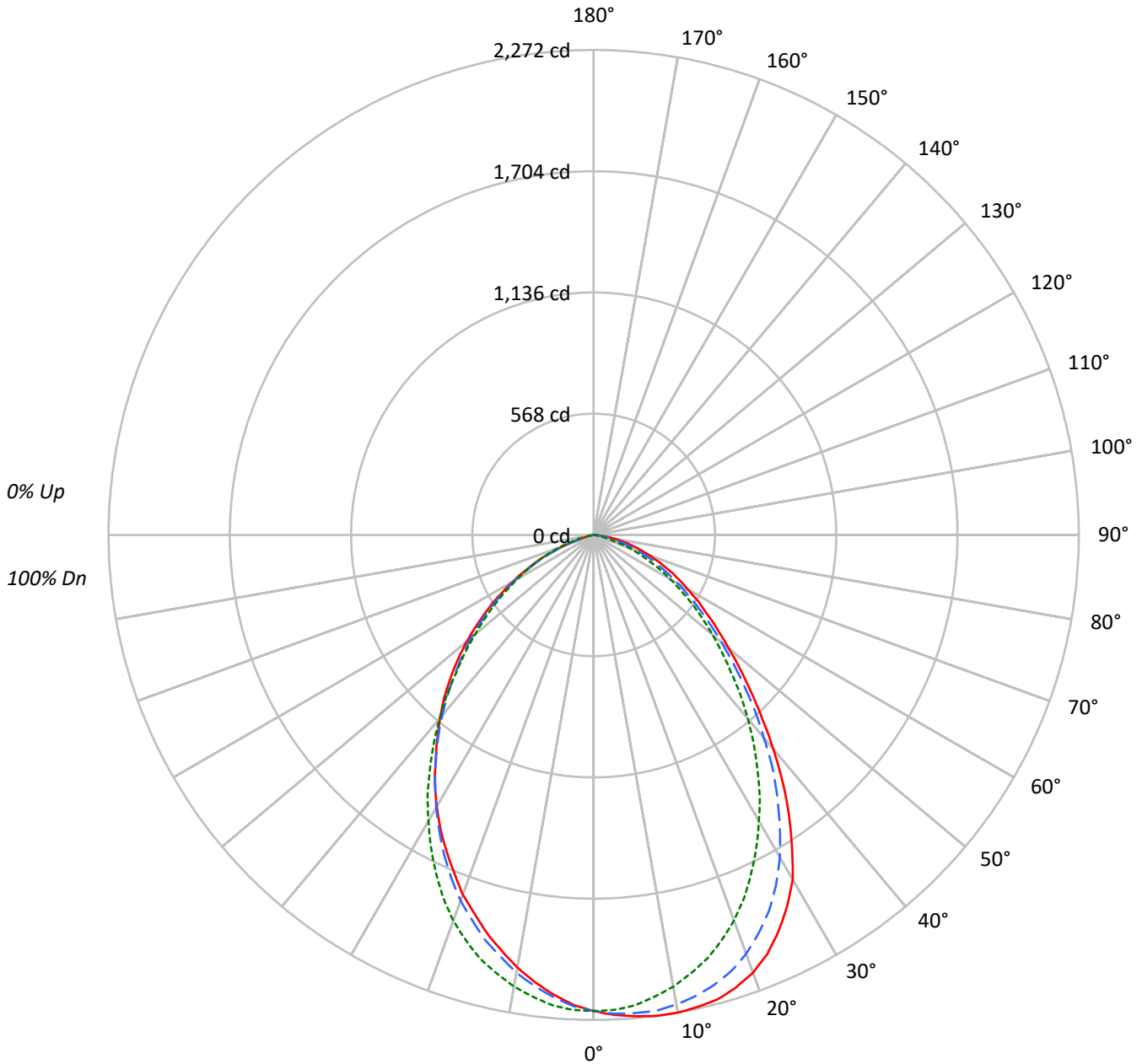
Lumens per Lamp: N/A  
Luminaire Lumens: 4181.1 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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: P584532  
CATALOG NUMBER: HCC8S40D010SL-HM82555830-81RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P584532

CATALOG NUMBER: HCC8S40D010SL-HM82555830-81RWWH

**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	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77					77			
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67					67			
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59					59			
5	81	70	62	56	79	69	62	56	67	60	55	65	59	55	63	58	54	52					52			
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47					47			
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42					42			
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38					38			
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35					35			
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32					32			

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

	0°	90°	180°
0°	68774	68774	68774
5°	70065	68477	66886
10°	71157	67280	64440
15°	71877	65604	61649
20°	71603	63074	58808
25°	69712	59433	55527
30°	66392	55098	52296
35°	59952	50285	48576
40°	52672	45133	45008
45°	45467	39667	41381
50°	39578	34795	37112
55°	35090	30225	32332
60°	31311	25532	26840
65°	28230	20729	21167
70°	25064	15534	12532
75°	21612	9007	5397
80°	16639	3214	1598
85°	10685	1061	1061



TEST NUMBER: P584532  
 CATALOG NUMBER: HCC8S40D010SL-HM82555830-81RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.4	5.0
10°-20°	582.8	13.9
20°-30°	824.4	19.7
30°-40°	868.7	20.8
40°-50°	738.2	17.7
50°-60°	531.6	12.7
60°-70°	306.7	7.3
70°-80°	104.9	2.5
80°-90°	14.4	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°	1616.6	38.7
0°-40°	2485.2	59.4
0°-60°	3755.0	89.8
0°-90°	4181.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4181.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2230	2230	2230	2230	2230	
5°	2264	2248	2212	2173	2161	216
15°	2252	2182	2055	1964	1931	634
25°	2049	1943	1747	1656	1632	940
35°	1593	1499	1336	1288	1290	992
45°	1043	994	910	916	949	810
55°	653	601	562	583	601	587
65°	387	332	284	278	290	385
75°	181	136	76	48	45	191
85°	30	18	3	3	3	41
90°	0	0	0	0	0	



TEST NUMBER: P584532

CATALOG NUMBER: HCC8S40D010SL-HM82555830-81RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3
2.5°	2251.5	2254.5	2251.5	2251.5	2248.4	2245.4	2242.3	2239.3	2233.3	2227.3	2227.3
5°	2263.5	2269.6	2263.5	2263.5	2254.5	2248.4	2242.3	2233.3	2221.3	2212.2	2212.2
7.5°	2272.5	2272.5	2272.5	2263.5	2257.4	2248.4	2233.3	2218.2	2203.0	2187.9	2182.0
10°	2272.5	2272.5	2269.6	2257.4	2251.5	2233.3	2218.2	2197.1	2175.9	2154.7	2148.7
12.5°	2263.5	2266.6	2260.5	2248.4	2233.3	2212.2	2191.0	2163.8	2139.6	2115.5	2103.3
15°	2251.5	2248.4	2242.3	2227.3	2209.1	2182.0	2160.8	2130.6	2097.4	2067.1	2055.0
17.5°	2221.3	2221.3	2212.2	2197.1	2172.8	2142.6	2109.4	2076.2	2039.9	2006.7	1991.6
20°	2182.0	2182.0	2169.8	2151.8	2127.5	2088.2	2052.0	2012.6	1970.4	1937.2	1922.1
22.5°	2124.5	2127.5	2112.4	2091.3	2064.1	2018.7	1982.4	1934.1	1891.9	1852.5	1840.5
25°	2048.9	2055.0	2039.9	2018.7	1982.4	1943.2	1897.8	1852.5	1804.2	1764.9	1746.8
27.5°	1961.4	1964.3	1949.2	1928.0	1891.9	1849.5	1804.2	1755.8	1710.5	1668.1	1650.1
30°	1864.6	1852.5	1846.5	1819.3	1780.0	1743.7	1692.4	1653.0	1604.7	1568.4	1547.4
32.5°	1728.6	1734.7	1716.6	1695.4	1665.2	1622.8	1580.6	1535.2	1489.9	1462.6	1447.5
35°	1592.6	1598.6	1589.6	1568.4	1535.2	1498.9	1456.7	1423.4	1384.1	1350.9	1335.8
37.5°	1450.6	1450.6	1444.5	1432.4	1408.2	1375.0	1332.7	1299.5	1266.3	1239.0	1230.0
40°	1308.5	1302.5	1299.5	1290.4	1269.3	1239.0	1211.9	1184.6	1151.4	1133.2	1121.2
42.5°	1169.5	1169.5	1163.5	1154.4	1133.2	1118.1	1091.0	1060.8	1036.6	1018.4	1018.4
45°	1042.6	1045.7	1036.6	1030.5	1018.4	994.2	970.1	948.9	927.7	915.7	909.6
47.5°	930.8	930.8	921.8	915.7	903.6	882.4	861.3	843.1	828.0	819.0	816.0
50°	825.0	825.0	825.0	809.9	794.8	779.7	764.6	743.4	734.3	728.3	725.3
52.5°	734.3	731.4	731.4	719.2	704.1	686.0	670.9	652.7	643.7	637.6	640.7
55°	652.7	652.7	649.7	634.6	619.5	601.4	586.3	571.2	565.1	559.1	562.2
56°	619.5	619.5	616.5	604.4	586.3	571.2	553.0	537.9	528.8	531.9	531.9
57°	595.4	589.3	589.3	574.2	559.1	537.9	522.8	507.7	501.7	498.6	498.6
58°	565.1	562.2	559.1	543.9	528.8	510.7	495.6	480.5	471.5	471.5	468.4
59°	534.9	534.9	528.8	516.8	501.7	483.5	468.4	453.3	444.2	441.3	441.3
60°	507.7	510.7	501.7	489.6	477.4	456.4	438.2	426.1	417.1	414.0	414.0
61°	483.5	483.5	477.4	462.4	447.3	432.2	414.0	398.9	392.8	386.9	386.9
62°	462.4	456.4	453.3	438.2	423.0	405.0	389.8	374.7	365.7	359.6	362.6
63°	435.2	432.2	426.1	414.0	398.9	380.8	362.6	350.6	341.5	332.5	335.5
64°	414.0	411.0	402.0	389.8	374.7	356.6	338.4	326.4	320.3	311.3	308.2
65°	386.9	383.8	380.8	365.7	350.6	332.5	317.4	305.2	296.2	290.1	284.1
66°	362.6	365.7	359.6	347.5	329.4	314.3	293.1	281.1	275.0	266.0	259.9
67°	341.5	341.5	335.5	323.3	305.2	290.1	275.0	259.9	250.9	241.8	238.7
67.5°	329.4	329.4	323.3	308.2	296.2	278.0	262.9	250.9	238.7	232.6	226.7
68°	317.4	317.4	314.3	302.3	287.1	268.9	253.8	238.7	226.7	217.5	214.6
69°	296.2	299.2	293.1	281.1	266.0	247.8	232.6	220.6	208.5	199.4	193.4
70°	278.0	275.0	268.9	256.9	241.8	229.7	214.6	199.4	187.4	175.3	172.3
71°	253.8	253.8	247.8	238.7	223.6	208.5	193.4	181.4	169.2	154.1	151.1
72°	235.7	235.7	229.7	217.5	205.5	190.4	175.3	160.2	151.1	136.0	129.9
72.5°	223.6	226.7	220.6	208.5	196.5	178.3	166.2	154.1	139.0	127.0	120.9
73°	217.5	214.6	211.6	199.4	184.3	172.3	157.2	145.1	129.9	117.8	111.9



TEST NUMBER: P584532

CATALOG NUMBER: HCC8S40D010SL-HM82555830-81RWWH

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	136.0	136.0	132.9	120.9	108.8	96.7	84.6	72.5	60.5	48.3	42.4
80°	93.7	96.7	90.7	84.6	75.6	63.4	51.4	42.4	30.2	24.2	18.1
82.5°	60.5	60.5	57.5	51.4	45.3	36.3	30.2	21.2	15.1	12.1	9.0
85°	30.2	33.2	30.2	27.3	21.2	18.1	15.1	9.0	6.1	3.0	3.0
87.5°	12.1	12.1	12.1	9.0	9.0	6.1	3.0	3.0	3.0	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: P584532

CATALOG NUMBER: HCC8S40D010SL-HM82555830-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3	2230.3
2.5°	2221.3	2221.3	2215.2	2212.2	2209.1	2206.1	2203.0	2200.1	2200.1	2203.0
5°	2203.0	2197.1	2185.0	2182.0	2172.8	2169.8	2163.8	2160.8	2163.8	2160.8
7.5°	2175.9	2163.8	2148.7	2142.6	2130.6	2124.5	2115.5	2115.5	2109.4	2112.4
10°	2139.6	2121.5	2103.3	2091.3	2082.3	2073.1	2067.1	2061.1	2058.0	2058.0
12.5°	2094.3	2073.1	2055.0	2036.9	2021.8	2015.7	2003.6	2003.6	1997.5	1994.6
15°	2042.9	2015.7	1994.6	1976.5	1964.3	1952.3	1943.2	1937.2	1931.1	1931.1
17.5°	1976.5	1952.3	1931.1	1910.0	1891.9	1882.7	1873.7	1864.6	1864.6	1858.5
20°	1903.9	1876.7	1858.5	1837.4	1822.4	1807.3	1795.1	1795.1	1789.0	1792.1
22.5°	1822.4	1789.0	1771.0	1755.8	1740.7	1728.6	1716.6	1716.6	1713.5	1710.5
25°	1731.7	1704.4	1683.3	1665.2	1656.1	1644.0	1641.0	1634.9	1632.0	1632.0
27.5°	1634.9	1613.8	1586.6	1577.5	1565.4	1559.4	1559.4	1556.4	1550.3	1553.3
30°	1532.2	1508.0	1492.9	1486.9	1474.8	1474.8	1471.8	1465.7	1465.7	1468.7
32.5°	1432.4	1408.2	1396.2	1393.1	1381.1	1381.1	1378.0	1381.1	1381.1	1384.1
35°	1323.6	1302.5	1299.5	1290.4	1287.5	1287.5	1287.5	1293.4	1299.5	1290.4
37.5°	1220.9	1205.8	1196.8	1193.7	1196.8	1196.8	1199.8	1208.8	1205.8	1202.7
40°	1115.1	1103.0	1097.1	1097.1	1103.0	1109.1	1109.1	1118.1	1121.2	1118.1
42.5°	1009.4	1000.3	1000.3	1003.3	1009.4	1012.5	1021.5	1030.5	1033.5	1036.6
45°	909.6	909.6	909.6	912.6	915.7	921.8	933.8	942.8	945.9	948.9
47.5°	812.9	809.9	819.0	822.1	831.1	834.1	843.1	855.3	858.2	861.3
50°	722.3	728.3	731.4	740.4	746.5	746.5	758.5	764.6	773.6	773.6
52.5°	637.6	646.8	649.7	658.8	661.9	664.9	670.9	680.0	686.0	686.0
55°	562.2	565.1	571.2	574.2	583.2	586.3	592.4	595.4	604.4	601.4
56°	528.8	534.9	537.9	543.9	550.0	553.0	559.1	562.2	568.1	571.2
57°	498.6	501.7	510.7	513.7	519.8	519.8	522.8	531.9	531.9	534.9
58°	468.4	474.5	477.4	480.5	486.6	489.6	495.6	498.6	501.7	498.6
59°	441.3	444.2	447.3	447.3	453.3	453.3	462.4	468.4	471.5	471.5
60°	414.0	414.0	417.1	420.1	426.1	429.1	429.1	435.2	435.2	435.2
61°	386.9	386.9	389.8	392.8	395.9	395.9	402.0	402.0	405.0	407.9
62°	362.6	359.6	359.6	362.6	362.6	368.7	371.8	374.7	377.7	374.7
63°	335.5	332.5	332.5	332.5	332.5	338.4	338.4	341.5	347.5	344.5
64°	305.2	305.2	305.2	305.2	308.2	308.2	314.3	317.4	320.3	323.3
65°	284.1	278.0	275.0	275.0	278.0	281.1	284.1	287.1	290.1	290.1
66°	259.9	253.8	250.9	250.9	250.9	250.9	256.9	256.9	262.9	262.9
67°	232.6	226.7	223.6	220.6	220.6	220.6	229.7	226.7	226.7	226.7
67.5°	223.6	214.6	211.6	208.5	205.5	211.6	208.5	211.6	211.6	208.5
68°	211.6	205.5	199.4	193.4	193.4	193.4	196.5	199.4	196.5	193.4
69°	187.4	184.3	175.3	169.2	166.2	169.2	166.2	169.2	166.2	169.2
70°	166.2	157.2	148.0	145.1	142.1	142.1	142.1	139.0	142.1	139.0
71°	145.1	136.0	127.0	120.9	117.8	117.8	114.8	117.8	114.8	117.8
72°	123.9	114.8	102.7	96.7	96.7	96.7	96.7	93.7	96.7	93.7
72.5°	114.8	102.7	93.7	87.6	84.6	84.6	84.6	84.6	81.6	84.6
73°	105.8	93.7	81.6	78.5	78.5	78.5	75.6	72.5	75.6	75.6





TEST NUMBER: P584532  
CATALOG NUMBER: HCC8S40D010SL-HM82555830-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	36.3	27.3	24.2	24.2	24.2	24.2	24.2	24.2	21.2	21.2
80°	15.1	12.1	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
82.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
85°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
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°	196.5	196.5	190.4	181.4	166.2	151.1	139.0	127.0	111.9	96.7	90.7
75°	181.4	178.3	172.3	163.1	151.1	136.0	123.9	108.8	96.7	81.6	75.6

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°	87.6	72.5	66.5	60.5	60.5	60.5	57.5	57.5	57.5	60.5
75°	69.5	57.5	51.4	45.3	48.3	45.3	48.3	45.3	45.3	45.3

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

Scaled Data Report



(END OF REPORT)