

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: P584498

Luminaire Tested: **HCC8S35D010MB-HM82555940-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584498  
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: HCC8S35D010MB-HM82555940-81RWWH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

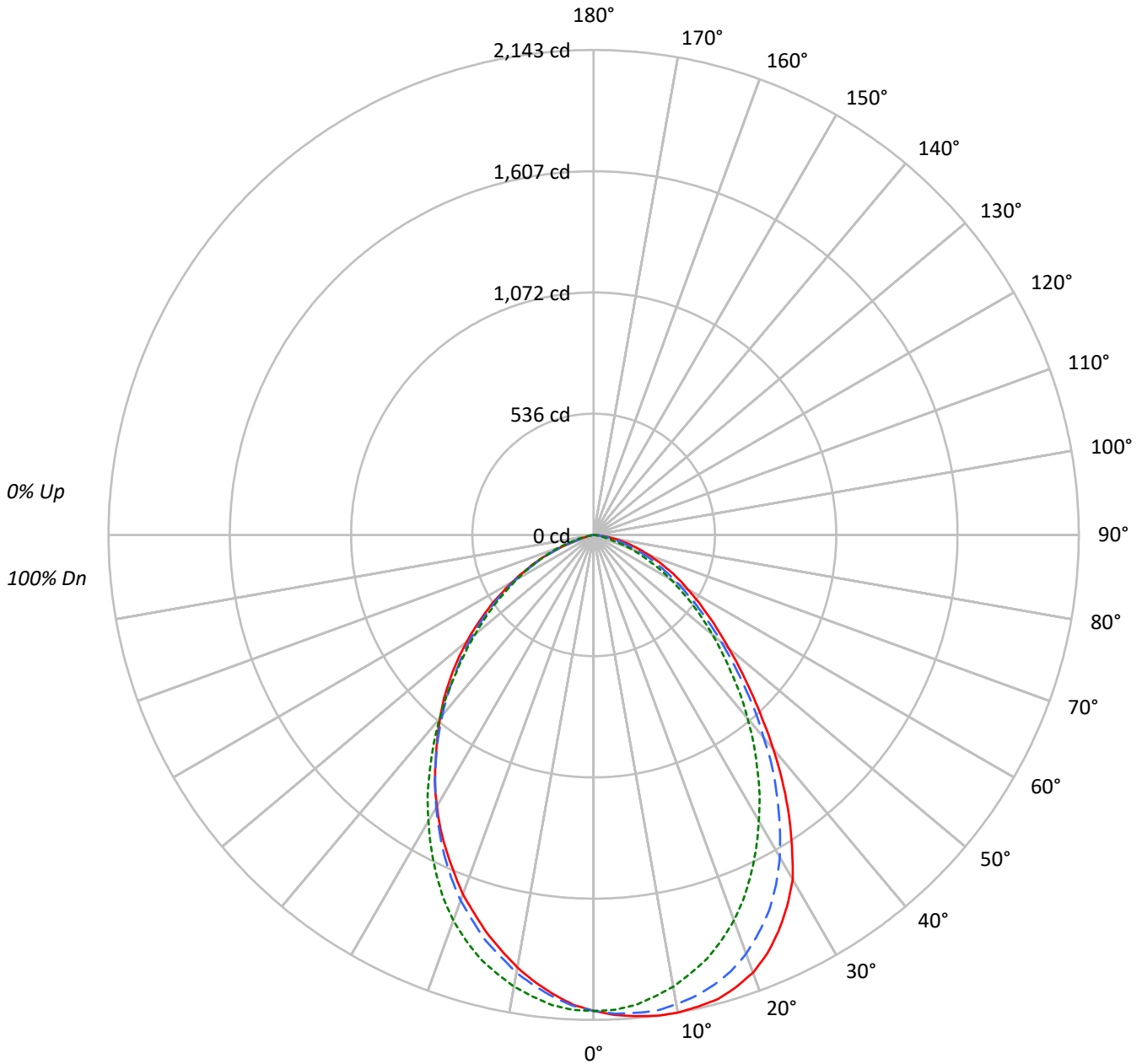
Lumens per Lamp: N/A  
Luminaire Lumens: 3943.1 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P584498  
CATALOG NUMBER: HCC8S35D010MB-HM82555940-81RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P584498

CATALOG NUMBER: HCC8S35D010MB-HM82555940-81RWWH

**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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77	77	77	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67	67	67	67
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59	59	59	59
5	81	70	62	56	79	69	62	56	67	60	55	65	59	55	63	58	54	52	52	52	52
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47	47	47	47
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42	42	42	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38	38	38	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35	35	35	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	32	32	32

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

	0°	90°	180°
0°	64858	64858	64858
5°	66078	64576	63078
10°	67108	63451	60773
15°	67784	61869	58140
20°	67524	59481	55458
25°	65748	56051	52367
30°	62611	51957	49319
35°	56538	47420	45809
40°	49677	42565	42448
45°	42881	37412	39026
50°	37328	32818	35001
55°	33101	28499	30488
60°	29529	24077	25310
65°	26618	19547	19963
70°	23640	14642	11820
75°	20373	8495	5099
80°	15680	3037	1509
85°	10084	1026	1026



TEST NUMBER: P584498

CATALOG NUMBER: HCC8S35D010MB-HM82555940-81RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.4	5.0
10°-20°	549.7	13.9
20°-30°	777.4	19.7
30°-40°	819.2	20.8
40°-50°	696.2	17.7
50°-60°	501.3	12.7
60°-70°	289.2	7.3
70°-80°	98.9	2.5
80°-90°	13.6	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°	1524.5	38.7
0°-40°	2343.7	59.4
0°-60°	3541.3	89.8
0°-90°	3943.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3943.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2103	2103	2103	2103	2103	
5°	2135	2120	2086	2049	2038	204
15°	2123	2058	1938	1852	1821	598
25°	1932	1833	1647	1562	1539	886
35°	1502	1414	1260	1214	1217	935
45°	983	938	858	864	895	764
55°	616	567	530	550	567	554
65°	365	314	268	262	274	363
75°	171	128	71	46	43	180
85°	28	17	3	3	3	38
90°	0	0	0	0	0	



TEST NUMBER: P584498

CATALOG NUMBER: HCC8S35D010MB-HM82555940-81RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2103.3	2103.3	2103.3	2103.3	2103.3	2103.3	2103.3	2103.3	2103.3	2103.3	2103.3
2.5°	2123.3	2126.1	2123.3	2123.3	2120.5	2117.6	2114.7	2111.8	2106.2	2100.5	2100.5
5°	2134.7	2140.3	2134.7	2134.7	2126.1	2120.5	2114.7	2106.2	2094.8	2086.2	2086.2
7.5°	2143.2	2143.2	2143.2	2134.7	2129.0	2120.5	2106.2	2091.9	2077.7	2063.4	2057.7
10°	2143.2	2143.2	2140.3	2129.0	2123.3	2106.2	2091.9	2071.9	2052.1	2032.0	2026.4
12.5°	2134.7	2137.5	2131.8	2120.5	2106.2	2086.2	2066.3	2040.7	2017.8	1995.0	1983.6
15°	2123.3	2120.5	2114.7	2100.5	2083.3	2057.7	2037.8	2009.3	1977.9	1949.4	1938.0
17.5°	2094.8	2094.8	2086.2	2071.9	2049.2	2020.7	1989.3	1958.0	1923.7	1892.5	1878.2
20°	2057.7	2057.7	2046.3	2029.2	2006.4	1969.4	1935.1	1898.1	1858.2	1826.8	1812.6
22.5°	2003.5	2006.4	1992.2	1972.3	1946.6	1903.9	1869.6	1824.1	1784.2	1747.0	1735.7
25°	1932.4	1938.0	1923.7	1903.9	1869.6	1832.6	1789.8	1747.0	1701.5	1664.4	1647.4
27.5°	1849.7	1852.5	1838.3	1818.3	1784.2	1744.2	1701.5	1655.9	1613.1	1573.2	1556.1
30°	1758.4	1747.0	1741.4	1715.8	1678.6	1644.5	1596.0	1559.0	1513.3	1479.2	1459.2
32.5°	1630.2	1635.9	1618.9	1598.9	1570.3	1530.4	1490.6	1447.8	1405.0	1379.4	1365.1
35°	1501.9	1507.7	1499.2	1479.2	1447.8	1413.6	1373.7	1342.4	1305.3	1274.0	1259.7
37.5°	1368.0	1368.0	1362.4	1350.9	1328.1	1296.7	1256.8	1225.6	1194.2	1168.5	1160.0
40°	1234.1	1228.3	1225.6	1216.9	1197.0	1168.5	1142.9	1117.3	1085.9	1068.7	1057.4
42.5°	1103.0	1103.0	1097.2	1088.7	1068.7	1054.5	1028.8	1000.3	977.6	960.4	960.4
45°	983.3	986.1	977.6	971.8	960.4	937.7	914.9	894.9	875.0	863.5	857.9
47.5°	877.8	877.8	869.3	863.5	852.1	832.3	812.2	795.1	780.9	772.4	769.5
50°	778.1	778.1	778.1	763.8	749.6	735.3	721.1	701.1	692.6	686.8	684.1
52.5°	692.6	689.7	689.7	678.3	664.1	646.9	632.7	615.7	607.0	601.4	604.2
55°	615.7	615.7	612.8	598.5	584.3	567.1	552.9	538.6	533.0	527.2	530.1
56°	584.3	584.3	581.4	570.0	552.9	538.6	521.6	507.4	498.7	501.6	501.6
57°	561.5	555.8	555.8	541.5	527.2	507.4	493.1	478.8	473.1	470.2	470.2
58°	533.0	530.1	527.2	513.0	498.7	481.7	467.5	453.2	444.6	444.6	441.7
59°	504.5	504.5	498.7	487.3	473.1	456.0	441.7	427.4	418.9	416.1	416.1
60°	478.8	481.7	473.1	461.7	450.3	430.3	413.3	401.8	393.3	390.4	390.4
61°	456.0	456.0	450.3	436.1	421.8	407.6	390.4	376.2	370.5	364.8	364.8
62°	436.1	430.3	427.4	413.3	399.1	381.9	367.7	353.4	344.9	339.2	342.0
63°	410.4	407.6	401.8	390.4	376.2	359.2	342.0	330.6	322.0	313.5	316.4
64°	390.4	387.6	379.0	367.7	353.4	336.3	319.1	307.8	302.1	293.5	290.8
65°	364.8	361.9	359.2	344.9	330.6	313.5	299.3	287.9	279.3	273.6	267.9
66°	342.0	344.9	339.2	327.8	310.6	296.4	276.5	265.0	259.4	250.9	245.1
67°	322.0	322.0	316.4	305.0	287.9	273.6	259.4	245.1	236.6	228.0	225.1
67.5°	310.6	310.6	305.0	290.8	279.3	262.2	248.0	236.6	225.1	219.5	213.7
68°	299.3	299.3	296.4	285.0	270.7	253.6	239.4	225.1	213.7	205.2	202.3
69°	279.3	282.1	276.5	265.0	250.9	233.7	219.5	208.1	196.7	188.1	182.5
70°	262.2	259.4	253.6	242.2	228.0	216.6	202.3	188.1	176.7	165.3	162.4
71°	239.4	239.4	233.7	225.1	210.8	196.7	182.5	171.0	159.6	145.3	142.4
72°	222.3	222.3	216.6	205.2	193.8	179.6	165.3	151.1	142.4	128.3	122.6
72.5°	210.8	213.7	208.1	196.7	185.2	168.2	156.7	145.3	131.1	119.7	114.0
73°	205.2	202.3	199.5	188.1	173.8	162.4	148.2	136.8	122.6	111.2	105.4

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P584498

CATALOG NUMBER: HCC8S35D010MB-HM82555940-81RWWH

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	128.3	128.3	125.4	114.0	102.5	91.2	79.8	68.4	57.0	45.6	39.9
80°	88.3	91.2	85.5	79.8	71.3	59.9	48.4	39.9	28.5	22.8	17.1
82.5°	57.0	57.0	54.1	48.4	42.8	34.1	28.5	20.0	14.3	11.4	8.5
85°	28.5	31.4	28.5	25.6	20.0	17.1	14.3	8.5	5.8	2.9	2.9
87.5°	11.4	11.4	11.4	8.5	8.5	5.8	2.9	2.9	2.9	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: P584498

CATALOG NUMBER: HCC8S35D010MB-HM82555940-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2103.3	2103.3	2103.3	2103.3	2103.3	2103.3	2103.3	2103.3	2103.3	2103.3
2.5°	2094.8	2094.8	2089.1	2086.2	2083.3	2080.6	2077.7	2074.8	2074.8	2077.7
5°	2077.7	2071.9	2060.6	2057.7	2049.2	2046.3	2040.7	2037.8	2040.7	2037.8
7.5°	2052.1	2040.7	2026.4	2020.7	2009.3	2003.5	1995.0	1995.0	1989.3	1992.2
10°	2017.8	2000.8	1983.6	1972.3	1963.6	1955.1	1949.4	1943.8	1940.9	1940.9
12.5°	1975.0	1955.1	1938.0	1920.9	1906.6	1901.0	1889.6	1889.6	1883.9	1881.0
15°	1926.6	1901.0	1881.0	1864.0	1852.5	1841.1	1832.6	1826.8	1821.2	1821.2
17.5°	1864.0	1841.1	1821.2	1801.2	1784.2	1775.6	1767.0	1758.4	1758.4	1752.8
20°	1795.6	1769.9	1752.8	1732.8	1718.5	1704.3	1692.9	1692.9	1687.3	1690.0
22.5°	1718.5	1687.3	1670.1	1655.9	1641.6	1630.2	1618.9	1618.9	1616.0	1613.1
25°	1633.1	1607.5	1587.5	1570.3	1561.8	1550.5	1547.6	1541.8	1539.1	1539.1
27.5°	1541.8	1521.9	1496.3	1487.7	1476.3	1470.7	1470.7	1467.8	1462.0	1464.9
30°	1445.0	1422.1	1407.9	1402.3	1390.8	1390.8	1388.0	1382.3	1382.3	1385.1
32.5°	1350.9	1328.1	1316.7	1313.8	1302.5	1302.5	1299.6	1302.5	1302.5	1305.3
35°	1248.3	1228.3	1225.6	1216.9	1214.2	1214.2	1214.2	1219.8	1225.6	1216.9
37.5°	1151.4	1137.1	1128.6	1125.8	1128.6	1128.6	1131.5	1140.0	1137.1	1134.3
40°	1051.6	1040.2	1034.6	1034.6	1040.2	1046.0	1046.0	1054.5	1057.4	1054.5
42.5°	951.9	943.3	943.3	946.2	951.9	954.8	963.3	971.8	974.7	977.6
45°	857.9	857.9	857.9	860.8	863.5	869.3	880.6	889.2	892.0	894.9
47.5°	766.6	763.8	772.4	775.2	783.7	786.6	795.1	806.6	809.4	812.2
50°	681.2	686.8	689.7	698.3	703.9	703.9	715.3	721.1	729.6	729.6
52.5°	601.4	609.9	612.8	621.3	624.2	627.0	632.7	641.3	646.9	646.9
55°	530.1	533.0	538.6	541.5	550.0	552.9	558.6	561.5	570.0	567.1
56°	498.7	504.5	507.4	513.0	518.7	521.6	527.2	530.1	535.9	538.6
57°	470.2	473.1	481.7	484.5	490.2	490.2	493.1	501.6	501.6	504.5
58°	441.7	447.5	450.3	453.2	458.8	461.7	467.5	470.2	473.1	470.2
59°	416.1	418.9	421.8	421.8	427.4	427.4	436.1	441.7	444.6	444.6
60°	390.4	390.4	393.3	396.2	401.8	404.7	404.7	410.4	410.4	410.4
61°	364.8	364.8	367.7	370.5	373.3	373.3	379.0	379.0	381.9	384.8
62°	342.0	339.2	339.2	342.0	342.0	347.7	350.5	353.4	356.3	353.4
63°	316.4	313.5	313.5	313.5	313.5	319.1	319.1	322.0	327.8	324.9
64°	287.9	287.9	287.9	287.9	290.8	290.8	296.4	299.3	302.1	305.0
65°	267.9	262.2	259.4	259.4	262.2	265.0	267.9	270.7	273.6	273.6
66°	245.1	239.4	236.6	236.6	236.6	236.6	242.2	242.2	248.0	248.0
67°	219.5	213.7	210.8	208.1	208.1	208.1	216.6	213.7	213.7	213.7
67.5°	210.8	202.3	199.5	196.7	193.8	199.5	196.7	199.5	199.5	196.7
68°	199.5	193.8	188.1	182.5	182.5	182.5	185.2	188.1	185.2	182.5
69°	176.7	173.8	165.3	159.6	156.7	159.6	156.7	159.6	156.7	159.6
70°	156.7	148.2	139.7	136.8	133.9	133.9	133.9	131.1	133.9	131.1
71°	136.8	128.3	119.7	114.0	111.2	111.2	108.3	111.2	108.3	111.2
72°	116.8	108.3	96.9	91.2	91.2	91.2	91.2	88.3	91.2	88.3
72.5°	108.3	96.9	88.3	82.7	79.8	79.8	79.8	79.8	76.9	79.8
73°	99.8	88.3	76.9	74.2	74.2	74.2	71.3	68.4	71.3	71.3





TEST NUMBER: P584498  
 CATALOG NUMBER: HCC8S35D010MB-HM82555940-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	34.1	25.6	22.8	22.8	22.8	22.8	22.8	22.8	20.0	20.0
80°	14.3	11.4	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
82.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
85°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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°	185.2	185.2	179.6	171.0	156.7	142.4	131.1	119.7	105.4	91.2	85.5
75°	171.0	168.2	162.4	153.9	142.4	128.3	116.8	102.5	91.2	76.9	71.3

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°	82.7	68.4	62.7	57.0	57.0	57.0	54.1	54.1	54.1	57.0
75°	65.5	54.1	48.4	42.8	45.6	42.8	45.6	42.8	42.8	42.8

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

Scaled Data Report



(END OF REPORT)