

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: P584464

Luminaire Tested: **HCC8W35D010SL-HM82555930-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584464
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: HCC8W35D010SL-HM82555930-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

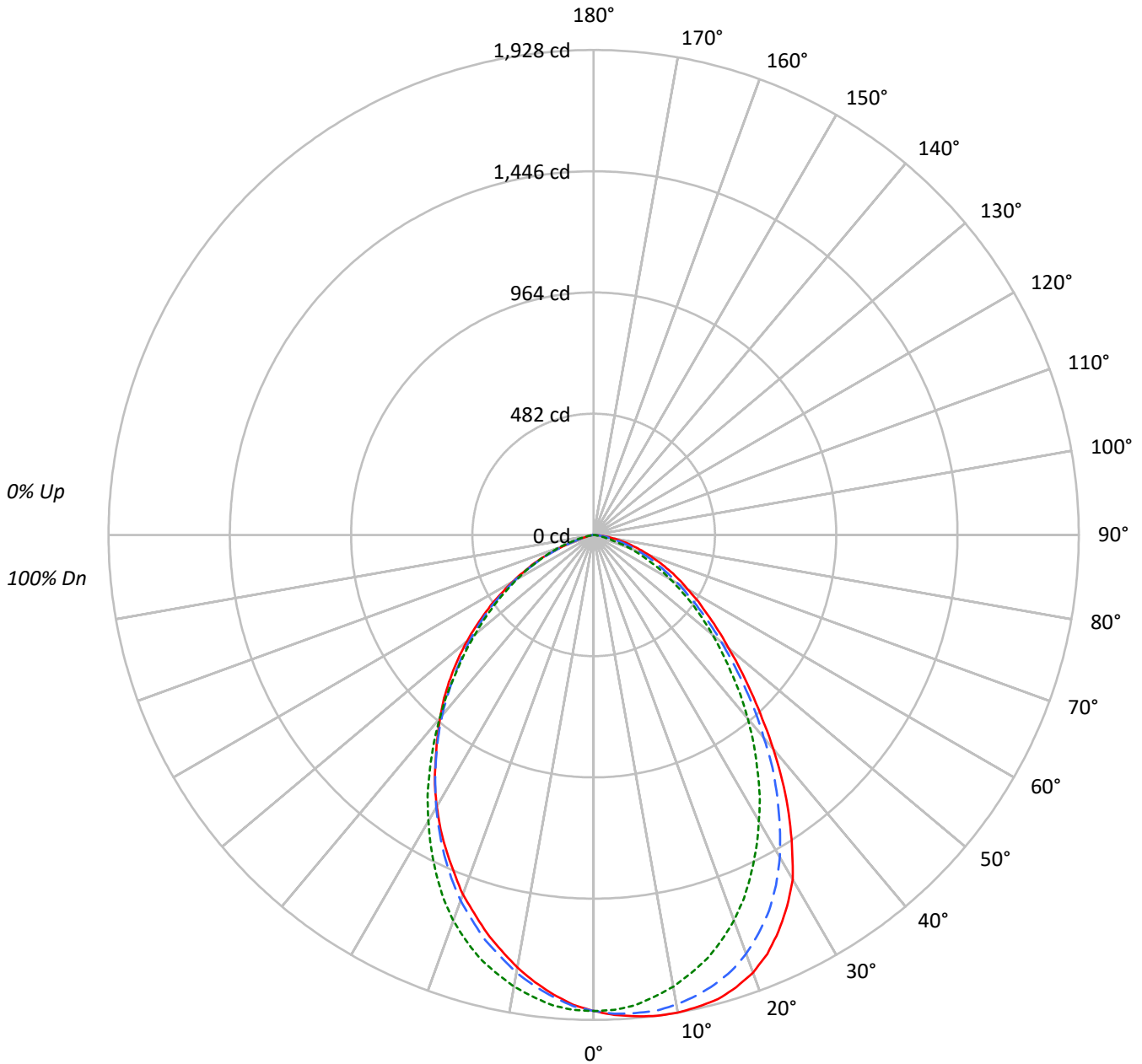
Lumens per Lamp: N/A
Luminaire Lumens: 3548.1 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): 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: P584464
CATALOG NUMBER: HCC8W35D010SL-HM82555930-81RWWH

Luminous Intensity Polar Plot





TEST NUMBER: P584464

CATALOG NUMBER: HCC8W35D010SL-HM82555930-81RWWH

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	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°	58361	58361	58361
5°	59460	58110	56761
10°	60385	57094	54683
15°	60994	55672	52314
20°	60761	53525	49902
25°	59161	50434	47120
30°	56340	46752	44380
35°	50880	42670	41224
40°	44698	38302	38197
45°	38581	33666	35118
50°	33586	29527	31494
55°	29784	25644	27434
60°	26569	21672	22776
65°	23954	17585	17964
70°	21269	13181	10639
75°	18324	7637	4587
80°	14118	2717	1367
85°	9057	885	885



TEST NUMBER: P584464

CATALOG NUMBER: HCC8W35D010SL-HM82555930-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.7	5.0
10°-20°	494.6	13.9
20°-30°	699.6	19.7
30°-40°	737.1	20.8
40°-50°	626.5	17.7
50°-60°	451.1	12.7
60°-70°	260.2	7.3
70°-80°	89.0	2.5
80°-90°	12.2	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°	1371.8	38.7
0°-40°	2109.0	59.4
0°-60°	3186.6	89.8
0°-90°	3548.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3548.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1893	1893	1893	1893	1893	
5°	1921	1908	1877	1844	1834	184
15°	1911	1852	1744	1667	1639	538
25°	1739	1649	1482	1405	1385	797
35°	1352	1272	1134	1092	1095	842
45°	885	844	772	777	805	687
55°	554	510	477	495	510	498
65°	328	282	241	236	246	327
75°	154	115	64	41	38	162
85°	26	15	2	2	2	35
90°	0	0	0	0	0	



TEST NUMBER: P584464

CATALOG NUMBER: HCC8W35D010SL-HM82555930-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6
2.5°	1910.6	1913.2	1910.6	1910.6	1908.1	1905.4	1902.9	1900.4	1895.2	1890.1	1890.1
5°	1920.9	1926.0	1920.9	1920.9	1913.2	1908.1	1902.9	1895.2	1884.9	1877.3	1877.3
7.5°	1928.5	1928.5	1928.5	1920.9	1915.7	1908.1	1895.2	1882.4	1869.6	1856.8	1851.6
10°	1928.5	1928.5	1926.0	1915.7	1910.6	1895.2	1882.4	1864.4	1846.5	1828.5	1823.4
12.5°	1920.9	1923.4	1918.4	1908.1	1895.2	1877.3	1859.3	1836.2	1815.7	1795.2	1784.9
15°	1910.6	1908.1	1902.9	1890.1	1874.8	1851.6	1833.7	1808.0	1779.9	1754.1	1743.9
17.5°	1884.9	1884.9	1877.3	1864.4	1844.0	1818.3	1790.1	1761.9	1731.1	1702.8	1690.0
20°	1851.6	1851.6	1841.3	1826.0	1805.5	1772.1	1741.3	1708.0	1672.0	1643.9	1631.1
22.5°	1802.9	1805.5	1792.7	1774.7	1751.6	1713.1	1682.4	1641.4	1605.4	1572.1	1561.8
25°	1738.8	1743.9	1731.1	1713.1	1682.4	1649.0	1610.6	1572.1	1531.0	1497.7	1482.3
27.5°	1664.4	1667.0	1654.2	1636.2	1605.4	1569.5	1531.0	1490.1	1451.5	1415.7	1400.2
30°	1582.3	1572.1	1567.0	1543.9	1510.6	1479.8	1436.2	1402.9	1361.8	1331.0	1313.0
32.5°	1467.0	1472.1	1456.6	1438.7	1413.0	1377.2	1341.3	1302.8	1264.4	1241.2	1228.4
35°	1351.6	1356.6	1348.9	1331.0	1302.8	1272.0	1236.1	1207.9	1174.5	1146.4	1133.5
37.5°	1230.9	1230.9	1225.9	1215.6	1195.1	1166.9	1131.0	1102.8	1074.6	1051.5	1043.8
40°	1110.4	1105.3	1102.8	1095.1	1077.1	1051.5	1028.4	1005.4	977.1	961.8	951.5
42.5°	992.5	992.5	987.4	979.7	961.8	948.9	925.8	900.2	879.7	864.2	864.2
45°	884.7	887.4	879.7	874.5	864.2	843.8	823.3	805.3	787.3	777.0	772.0
47.5°	789.8	789.8	782.2	777.0	766.8	748.9	730.9	715.6	702.7	695.0	692.4
50°	700.1	700.1	700.1	687.3	674.5	661.7	648.8	630.9	623.2	618.0	615.5
52.5°	623.2	620.7	620.7	610.4	597.6	582.1	569.3	554.0	546.3	541.1	543.7
55°	554.0	554.0	551.4	538.5	525.7	510.3	497.5	484.7	479.6	474.4	477.0
56°	525.7	525.7	523.2	512.9	497.5	484.7	469.4	456.4	448.8	451.4	451.4
57°	505.2	500.0	500.0	487.2	474.4	456.4	443.6	430.8	425.8	423.1	423.1
58°	479.6	477.0	474.4	461.6	448.8	433.4	420.6	407.8	400.1	400.1	397.5
59°	453.9	453.9	448.8	438.6	425.8	410.3	397.5	384.7	377.0	374.4	374.4
60°	430.8	433.4	425.8	415.5	405.2	387.2	371.9	361.6	353.9	351.4	351.4
61°	410.3	410.3	405.2	392.3	379.5	366.7	351.4	338.6	333.4	328.3	328.3
62°	392.3	387.2	384.7	371.9	359.0	343.7	330.9	317.9	310.3	305.1	307.8
63°	369.3	366.7	361.6	351.4	338.6	323.1	307.8	297.5	289.8	282.1	284.6
64°	351.4	348.7	341.1	330.9	317.9	302.6	287.3	277.0	271.8	264.2	261.6
65°	328.3	325.7	323.1	310.3	297.5	282.1	269.3	259.0	251.3	246.2	241.0
66°	307.8	310.3	305.1	294.9	279.5	266.7	248.7	238.5	233.4	225.7	220.6
67°	289.8	289.8	284.6	274.5	259.0	246.2	233.4	220.6	212.9	205.2	202.6
67.5°	279.5	279.5	274.5	261.6	251.3	235.9	223.1	212.9	202.6	197.4	192.4
68°	269.3	269.3	266.7	256.5	243.7	228.2	215.4	202.6	192.4	184.6	182.1
69°	251.3	253.9	248.7	238.5	225.7	210.2	197.4	187.2	176.9	169.3	164.1
70°	235.9	233.4	228.2	218.0	205.2	194.9	182.1	169.3	159.0	148.8	146.2
71°	215.4	215.4	210.2	202.6	189.8	176.9	164.1	153.8	143.6	130.8	128.2
72°	200.1	200.1	194.9	184.6	174.4	161.6	148.8	136.0	128.2	115.4	110.3
72.5°	189.8	192.4	187.2	176.9	166.6	151.3	141.0	130.8	118.0	107.7	102.5
73°	184.6	182.1	179.5	169.3	156.5	146.2	133.3	123.2	110.3	100.0	94.9



TEST NUMBER: P584464
CATALOG NUMBER: HCC8W35D010SL-HM82555930-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	115.4	115.4	112.9	102.5	92.4	82.1	71.8	61.6	51.3	41.1	35.9
80°	79.5	82.1	76.9	71.8	64.1	53.9	43.6	35.9	25.6	20.5	15.3
82.5°	51.3	51.3	48.8	43.6	38.5	30.8	25.6	18.0	12.8	10.3	7.7
85°	25.6	28.2	25.6	23.1	18.0	15.3	12.8	7.7	5.2	2.5	2.5
87.5°	10.3	10.3	10.3	7.7	7.7	5.2	2.5	2.5	2.5	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: P584464

CATALOG NUMBER: HCC8W35D010SL-HM82555930-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6
2.5°	1884.9	1884.9	1879.8	1877.3	1874.8	1872.1	1869.6	1867.0	1867.0	1869.6
5°	1869.6	1864.4	1854.1	1851.6	1844.0	1841.3	1836.2	1833.7	1836.2	1833.7
7.5°	1846.5	1836.2	1823.4	1818.3	1808.0	1802.9	1795.2	1795.2	1790.1	1792.7
10°	1815.7	1800.4	1784.9	1774.7	1767.0	1759.3	1754.1	1749.1	1746.4	1746.4
12.5°	1777.2	1759.3	1743.9	1728.5	1715.7	1710.6	1700.3	1700.3	1695.2	1692.7
15°	1733.6	1710.6	1692.7	1677.2	1667.0	1656.7	1649.0	1643.9	1638.7	1638.7
17.5°	1677.2	1656.7	1638.7	1620.8	1605.4	1597.8	1590.0	1582.3	1582.3	1577.2
20°	1615.6	1592.6	1577.2	1559.3	1546.4	1533.6	1523.4	1523.4	1518.2	1520.7
22.5°	1546.4	1518.2	1502.9	1490.1	1477.3	1467.0	1456.6	1456.6	1454.1	1451.5
25°	1469.5	1446.5	1428.5	1413.0	1405.4	1395.1	1392.6	1387.4	1384.9	1384.9
27.5°	1387.4	1369.4	1346.4	1338.8	1328.5	1323.3	1323.3	1320.8	1315.6	1318.2
30°	1300.2	1279.7	1266.9	1261.7	1251.6	1251.6	1248.9	1243.8	1243.8	1246.4
32.5°	1215.6	1195.1	1184.8	1182.3	1172.0	1172.0	1169.5	1172.0	1172.0	1174.5
35°	1123.2	1105.3	1102.8	1095.1	1092.5	1092.5	1092.5	1097.6	1102.8	1095.1
37.5°	1036.0	1023.2	1015.5	1013.0	1015.5	1015.5	1018.2	1025.8	1023.2	1020.7
40°	946.3	936.1	931.0	931.0	936.1	941.1	941.1	948.9	951.5	948.9
42.5°	856.6	848.9	848.9	851.4	856.6	859.1	866.9	874.5	877.1	879.7
45°	772.0	772.0	772.0	774.5	777.0	782.2	792.5	800.1	802.7	805.3
47.5°	689.9	687.3	695.0	697.6	705.3	707.8	715.6	725.7	728.4	730.9
50°	612.9	618.0	620.7	628.4	633.5	633.5	643.7	648.8	656.5	656.5
52.5°	541.1	548.8	551.4	559.1	561.6	564.3	569.3	577.1	582.1	582.1
55°	477.0	479.6	484.7	487.2	495.0	497.5	502.7	505.2	512.9	510.3
56°	448.8	453.9	456.4	461.6	466.7	469.4	474.4	477.0	482.2	484.7
57°	423.1	425.8	433.4	436.0	441.1	441.1	443.6	451.4	451.4	453.9
58°	397.5	402.6	405.2	407.8	413.0	415.5	420.6	423.1	425.8	423.1
59°	374.4	377.0	379.5	379.5	384.7	384.7	392.3	397.5	400.1	400.1
60°	351.4	351.4	353.9	356.5	361.6	364.2	364.2	369.3	369.3	369.3
61°	328.3	328.3	330.9	333.4	335.9	335.9	341.1	341.1	343.7	346.2
62°	307.8	305.1	305.1	307.8	307.8	312.9	315.4	317.9	320.6	317.9
63°	284.6	282.1	282.1	282.1	282.1	287.3	287.3	289.8	294.9	292.3
64°	259.0	259.0	259.0	259.0	261.6	261.6	266.7	269.3	271.8	274.5
65°	241.0	235.9	233.4	233.4	235.9	238.5	241.0	243.7	246.2	246.2
66°	220.6	215.4	212.9	212.9	212.9	212.9	218.0	218.0	223.1	223.1
67°	197.4	192.4	189.8	187.2	187.2	187.2	194.9	192.4	192.4	192.4
67.5°	189.8	182.1	179.5	176.9	174.4	179.5	176.9	179.5	179.5	176.9
68°	179.5	174.4	169.3	164.1	164.1	164.1	166.6	169.3	166.6	164.1
69°	159.0	156.5	148.8	143.6	141.0	143.6	141.0	143.6	141.0	143.6
70°	141.0	133.3	125.7	123.2	120.5	120.5	120.5	118.0	120.5	118.0
71°	123.2	115.4	107.7	102.5	100.0	100.0	97.4	100.0	97.4	100.0
72°	105.2	97.4	87.2	82.1	82.1	82.1	82.1	79.5	82.1	79.5
72.5°	97.4	87.2	79.5	74.4	71.8	71.8	71.8	71.8	69.2	71.8
73°	89.7	79.5	69.2	66.7	66.7	66.7	64.1	61.6	64.1	64.1



TEST NUMBER: P584464
CATALOG NUMBER: HCC8W35D010SL-HM82555930-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	30.8	23.1	20.5	20.5	20.5	20.5	20.5	20.5	18.0	18.0
80°	12.8	10.3	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
82.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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°	166.6	166.6	161.6	153.8	141.0	128.2	118.0	107.7	94.9	82.1	76.9
75°	153.8	151.3	146.2	138.5	128.2	115.4	105.2	92.4	82.1	69.2	64.1

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°	74.4	61.6	56.4	51.3	51.3	51.3	48.8	48.8	48.8	51.3
75°	58.9	48.8	43.6	38.5	41.1	38.5	41.1	38.5	38.5	38.5

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

Scaled Data Report



(END OF REPORT)