

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: P584379

Luminaire Tested: **HCC8W35D010SL-HM82555827-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584379
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-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

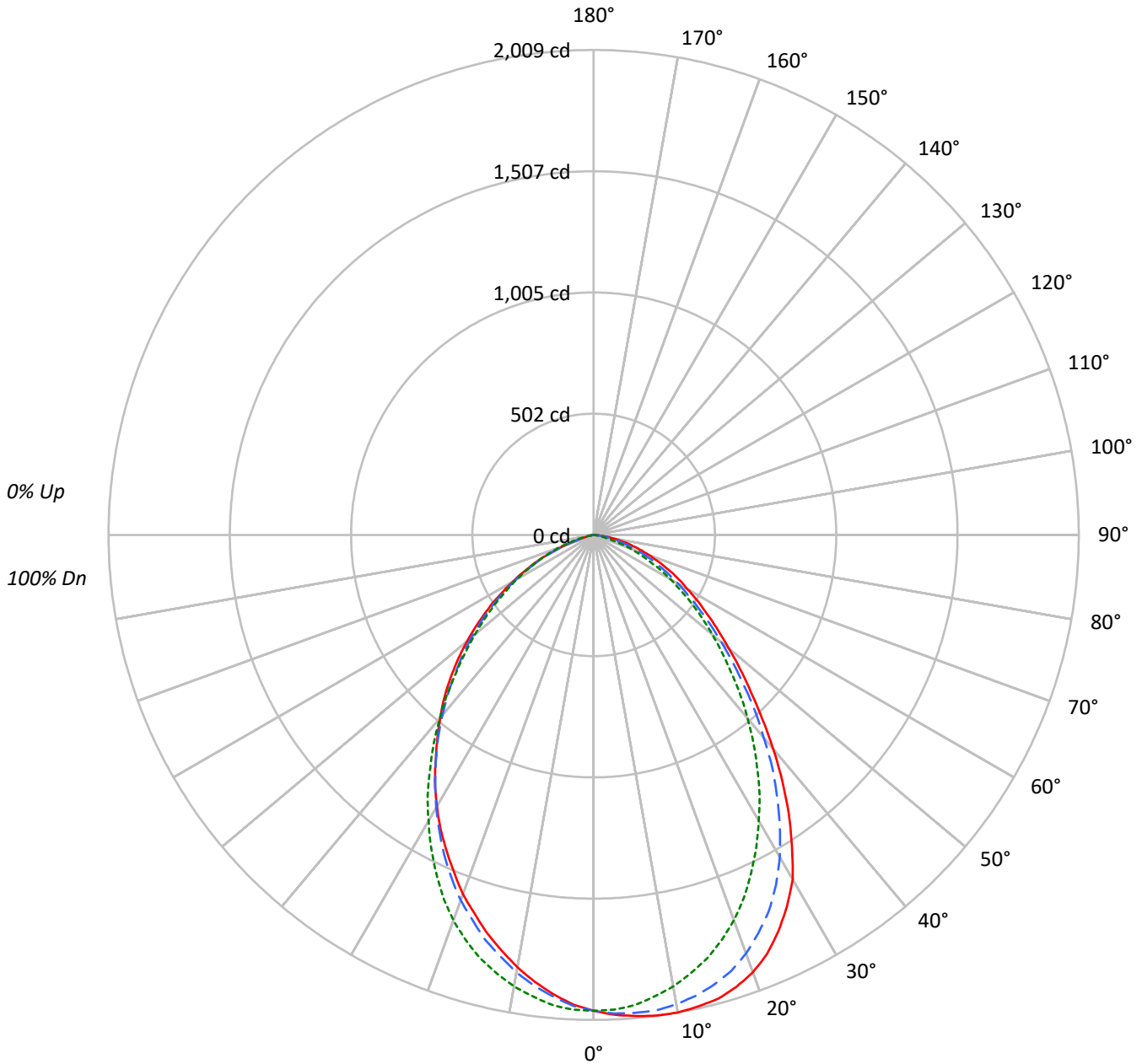
Lumens per Lamp: N/A
Luminaire Lumens: 3695.4 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584379
CATALOG NUMBER: HCC8W35D010SL-HM82555827-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P584379

CATALOG NUMBER: HCC8W35D010SL-HM82555827-81RWWH

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								
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°	60785	60785	60785
5°	61930	60525	59119
10°	62896	59465	56953
15°	63526	57984	54488
20°	63284	55747	51976
25°	61618	52530	49076
30°	58683	48692	46225
35°	52988	44443	42933
40°	46554	39892	39779
45°	40186	35062	36575
50°	34982	30751	32804
55°	31020	26709	28580
60°	27679	22572	23725
65°	24947	18321	18708
70°	22152	13731	11081
75°	19099	7947	4766
80°	14704	2859	1421
85°	9447	920	920



TEST NUMBER: P584379

CATALOG NUMBER: HCC8W35D010SL-HM82555827-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.0	5.0
10°-20°	515.1	13.9
20°-30°	728.6	19.7
30°-40°	767.8	20.8
40°-50°	652.5	17.7
50°-60°	469.9	12.7
60°-70°	271.0	7.3
70°-80°	92.7	2.5
80°-90°	12.7	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°	1428.8	38.7
0°-40°	2196.5	59.4
0°-60°	3318.9	89.8
0°-90°	3695.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3695.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1971	1971	1971	1971	1971	
5°	2001	1987	1955	1920	1910	191
15°	1990	1928	1816	1736	1707	560
25°	1811	1718	1544	1464	1442	831
35°	1408	1325	1181	1138	1140	877
45°	922	879	804	809	839	716
55°	577	532	497	516	532	519
65°	342	294	251	246	256	340
75°	160	120	67	43	40	169
85°	27	16	3	3	3	36
90°	0	0	0	0	0	



TEST NUMBER: P584379

CATALOG NUMBER: HCC8W35D010SL-HM82555827-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2
2.5°	1989.9	1992.6	1989.9	1989.9	1987.2	1984.6	1982.0	1979.2	1973.9	1968.6	1968.6
5°	2000.7	2005.9	2000.7	2000.7	1992.6	1987.2	1982.0	1973.9	1963.2	1955.3	1955.3
7.5°	2008.7	2008.7	2008.7	2000.7	1995.3	1987.2	1973.9	1960.5	1947.2	1933.8	1928.5
10°	2008.7	2008.7	2005.9	1995.3	1989.9	1973.9	1960.5	1941.8	1923.1	1904.5	1899.1
12.5°	2000.7	2003.3	1997.9	1987.2	1973.9	1955.3	1936.6	1912.5	1891.0	1869.7	1859.1
15°	1989.9	1987.2	1982.0	1968.6	1952.5	1928.5	1909.9	1883.1	1853.7	1827.0	1816.3
17.5°	1963.2	1963.2	1955.3	1941.8	1920.5	1893.8	1864.4	1835.0	1803.0	1773.5	1760.2
20°	1928.5	1928.5	1917.8	1901.8	1880.4	1845.6	1813.7	1778.9	1741.5	1712.2	1698.8
22.5°	1877.7	1880.4	1867.1	1848.4	1824.3	1784.3	1752.2	1709.4	1672.0	1637.3	1626.6
25°	1811.0	1816.3	1803.0	1784.3	1752.2	1717.5	1677.4	1637.3	1594.7	1559.9	1543.9
27.5°	1733.5	1736.1	1722.8	1704.2	1672.0	1634.7	1594.7	1551.9	1511.8	1474.4	1458.4
30°	1648.1	1637.3	1632.0	1608.0	1573.2	1541.2	1495.8	1461.1	1418.3	1386.3	1367.5
32.5°	1527.8	1533.2	1517.1	1498.5	1471.7	1434.4	1397.0	1356.9	1316.8	1292.8	1279.5
35°	1407.6	1413.0	1405.0	1386.3	1356.9	1324.9	1287.5	1258.0	1223.4	1193.9	1180.6
37.5°	1282.1	1282.1	1276.7	1266.0	1244.7	1215.4	1177.9	1148.5	1119.2	1095.1	1087.1
40°	1156.5	1151.3	1148.5	1140.5	1121.8	1095.1	1071.1	1047.1	1017.7	1001.6	991.0
42.5°	1033.8	1033.8	1028.4	1020.3	1001.6	988.2	964.3	937.6	916.1	900.2	900.2
45°	921.5	924.1	916.1	910.8	900.2	878.7	857.4	838.7	820.0	809.4	804.0
47.5°	822.7	822.7	814.6	809.4	798.6	779.9	761.2	745.3	731.9	723.8	721.2
50°	729.2	729.2	729.2	715.8	702.5	689.1	675.8	657.1	649.1	643.7	641.0
52.5°	649.1	646.4	646.4	635.7	622.4	606.3	593.0	577.0	568.9	563.5	566.3
55°	577.0	577.0	574.3	560.9	547.6	531.6	518.1	504.8	499.4	494.2	496.8
56°	547.6	547.6	544.9	534.2	518.1	504.8	488.8	475.5	467.5	470.1	470.1
57°	526.2	520.9	520.9	507.5	494.2	475.5	462.1	448.8	443.4	440.7	440.7
58°	499.4	496.8	494.2	480.8	467.5	451.4	438.1	424.7	416.7	416.7	414.0
59°	472.7	472.7	467.5	456.8	443.4	427.3	414.0	400.6	392.6	389.9	389.9
60°	448.8	451.4	443.4	432.7	422.1	403.4	387.3	376.7	368.6	366.0	366.0
61°	427.3	427.3	422.1	408.6	395.3	381.9	366.0	352.6	347.2	341.9	341.9
62°	408.6	403.4	400.6	387.3	373.9	358.0	344.5	331.2	323.2	317.8	320.6
63°	384.7	381.9	376.7	366.0	352.6	336.5	320.6	309.8	301.8	293.9	296.5
64°	366.0	363.2	355.2	344.5	331.2	315.2	299.1	288.5	283.1	275.1	272.4
65°	341.9	339.3	336.5	323.2	309.8	293.9	280.5	269.8	261.8	256.4	251.1
66°	320.6	323.2	317.8	307.2	291.1	277.8	259.1	248.5	243.1	235.0	229.7
67°	301.8	301.8	296.5	285.8	269.8	256.4	243.1	229.7	221.7	213.7	211.0
67.5°	291.1	291.1	285.8	272.4	261.8	245.7	232.4	221.7	211.0	205.7	200.3
68°	280.5	280.5	277.8	267.2	253.7	237.7	224.4	211.0	200.3	192.3	189.6
69°	261.8	264.4	259.1	248.5	235.0	219.0	205.7	195.0	184.3	176.3	171.0
70°	245.7	243.1	237.7	227.0	213.7	202.9	189.6	176.3	165.6	154.9	152.3
71°	224.4	224.4	219.0	211.0	197.7	184.3	171.0	160.3	149.6	136.2	133.6
72°	208.3	208.3	202.9	192.3	181.6	168.3	154.9	141.6	133.6	120.2	114.9
72.5°	197.7	200.3	195.0	184.3	173.6	157.5	146.9	136.2	122.9	112.1	106.9
73°	192.3	189.6	187.0	176.3	162.9	152.3	138.8	128.2	114.9	104.2	98.8



TEST NUMBER: P584379
 CATALOG NUMBER: HCC8W35D010SL-HM82555827-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	120.2	120.2	117.5	106.9	96.2	85.4	74.8	64.1	53.4	42.8	37.4
80°	82.8	85.4	80.1	74.8	66.7	56.1	45.4	37.4	26.7	21.3	16.1
82.5°	53.4	53.4	50.8	45.4	40.0	32.1	26.7	18.7	13.3	10.7	8.0
85°	26.7	29.4	26.7	24.1	18.7	16.1	13.3	8.0	5.4	2.6	2.6
87.5°	10.7	10.7	10.7	8.0	8.0	5.4	2.6	2.6	2.6	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: P584379

CATALOG NUMBER: HCC8W35D010SL-HM82555827-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2	1971.2
2.5°	1963.2	1963.2	1957.9	1955.3	1952.5	1949.9	1947.2	1944.5	1944.5	1947.2
5°	1947.2	1941.8	1931.2	1928.5	1920.5	1917.8	1912.5	1909.9	1912.5	1909.9
7.5°	1923.1	1912.5	1899.1	1893.8	1883.1	1877.7	1869.7	1869.7	1864.4	1867.1
10°	1891.0	1875.1	1859.1	1848.4	1840.4	1832.3	1827.0	1821.7	1818.9	1818.9
12.5°	1851.0	1832.3	1816.3	1800.2	1786.9	1781.5	1770.9	1770.9	1765.6	1762.9
15°	1805.6	1781.5	1762.9	1746.9	1736.1	1725.5	1717.5	1712.2	1706.8	1706.8
17.5°	1746.9	1725.5	1706.8	1688.1	1672.0	1664.0	1656.0	1648.1	1648.1	1642.7
20°	1682.7	1658.8	1642.7	1624.0	1610.6	1597.3	1586.6	1586.6	1581.2	1583.9
22.5°	1610.6	1581.2	1565.2	1551.9	1538.5	1527.8	1517.1	1517.1	1514.5	1511.8
25°	1530.6	1506.5	1487.8	1471.7	1463.7	1453.1	1450.4	1445.0	1442.4	1442.4
27.5°	1445.0	1426.3	1402.3	1394.2	1383.6	1378.3	1378.3	1375.5	1370.3	1372.9
30°	1354.2	1332.9	1319.5	1314.2	1303.4	1303.4	1300.8	1295.5	1295.5	1298.2
32.5°	1266.0	1244.7	1234.1	1231.3	1220.6	1220.6	1218.0	1220.6	1220.6	1223.4
35°	1170.0	1151.3	1148.5	1140.5	1137.9	1137.9	1137.9	1143.3	1148.5	1140.5
37.5°	1079.2	1065.7	1057.7	1055.1	1057.7	1057.7	1060.3	1068.4	1065.7	1063.1
40°	985.6	974.9	969.5	969.5	974.9	980.3	980.3	988.2	991.0	988.2
42.5°	892.2	884.1	884.1	886.8	892.2	894.8	902.8	910.8	913.5	916.1
45°	804.0	804.0	804.0	806.6	809.4	814.6	825.3	833.3	836.1	838.7
47.5°	718.6	715.8	723.8	726.5	734.5	737.2	745.3	755.9	758.6	761.2
50°	638.4	643.7	646.4	654.3	659.7	659.7	670.4	675.8	683.8	683.8
52.5°	563.5	571.6	574.3	582.3	585.0	587.6	593.0	601.0	606.3	606.3
55°	496.8	499.4	504.8	507.5	515.5	518.1	523.5	526.2	534.2	531.6
56°	467.5	472.7	475.5	480.8	486.1	488.8	494.2	496.8	502.2	504.8
57°	440.7	443.4	451.4	454.0	459.4	459.4	462.1	470.1	470.1	472.7
58°	414.0	419.3	422.1	424.7	430.1	432.7	438.1	440.7	443.4	440.7
59°	389.9	392.6	395.3	395.3	400.6	400.6	408.6	414.0	416.7	416.7
60°	366.0	366.0	368.6	371.3	376.7	379.3	379.3	384.7	384.7	384.7
61°	341.9	341.9	344.5	347.2	349.9	349.9	355.2	355.2	358.0	360.6
62°	320.6	317.8	317.8	320.6	320.6	325.9	328.5	331.2	333.9	331.2
63°	296.5	293.9	293.9	293.9	293.9	299.1	299.1	301.8	307.2	304.5
64°	269.8	269.8	269.8	269.8	272.4	272.4	277.8	280.5	283.1	285.8
65°	251.1	245.7	243.1	243.1	245.7	248.5	251.1	253.7	256.4	256.4
66°	229.7	224.4	221.7	221.7	221.7	221.7	227.0	227.0	232.4	232.4
67°	205.7	200.3	197.7	195.0	195.0	195.0	202.9	200.3	200.3	200.3
67.5°	197.7	189.6	187.0	184.3	181.6	187.0	184.3	187.0	187.0	184.3
68°	187.0	181.6	176.3	171.0	171.0	171.0	173.6	176.3	173.6	171.0
69°	165.6	162.9	154.9	149.6	146.9	149.6	146.9	149.6	146.9	149.6
70°	146.9	138.8	130.8	128.2	125.6	125.6	125.6	122.9	125.6	122.9
71°	128.2	120.2	112.1	106.9	104.2	104.2	101.5	104.2	101.5	104.2
72°	109.5	101.5	90.8	85.4	85.4	85.4	85.4	82.8	85.4	82.8
72.5°	101.5	90.8	82.8	77.5	74.8	74.8	74.8	74.8	72.1	74.8
73°	93.4	82.8	72.1	69.5	69.5	69.5	66.7	64.1	66.7	66.7



TEST NUMBER: P584379
 CATALOG NUMBER: HCC8W35D010SL-HM82555827-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	32.1	24.1	21.3	21.3	21.3	21.3	21.3	21.3	18.7	18.7
80°	13.3	10.7	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
82.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
85°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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°	173.6	173.6	168.3	160.3	146.9	133.6	122.9	112.1	98.8	85.4	80.1
75°	160.3	157.5	152.3	144.2	133.6	120.2	109.5	96.2	85.4	72.1	66.7

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°	77.5	64.1	58.8	53.4	53.4	53.4	50.8	50.8	50.8	53.4
75°	61.5	50.8	45.4	40.0	42.8	40.0	42.8	40.0	40.0	40.0

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

Scaled Data Report



(END OF REPORT)