

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: P584991

Luminaire Tested: **HCC8W55D010BZ-HM82555927-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584991
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: HCC8W55D010BZ-HM82555927-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

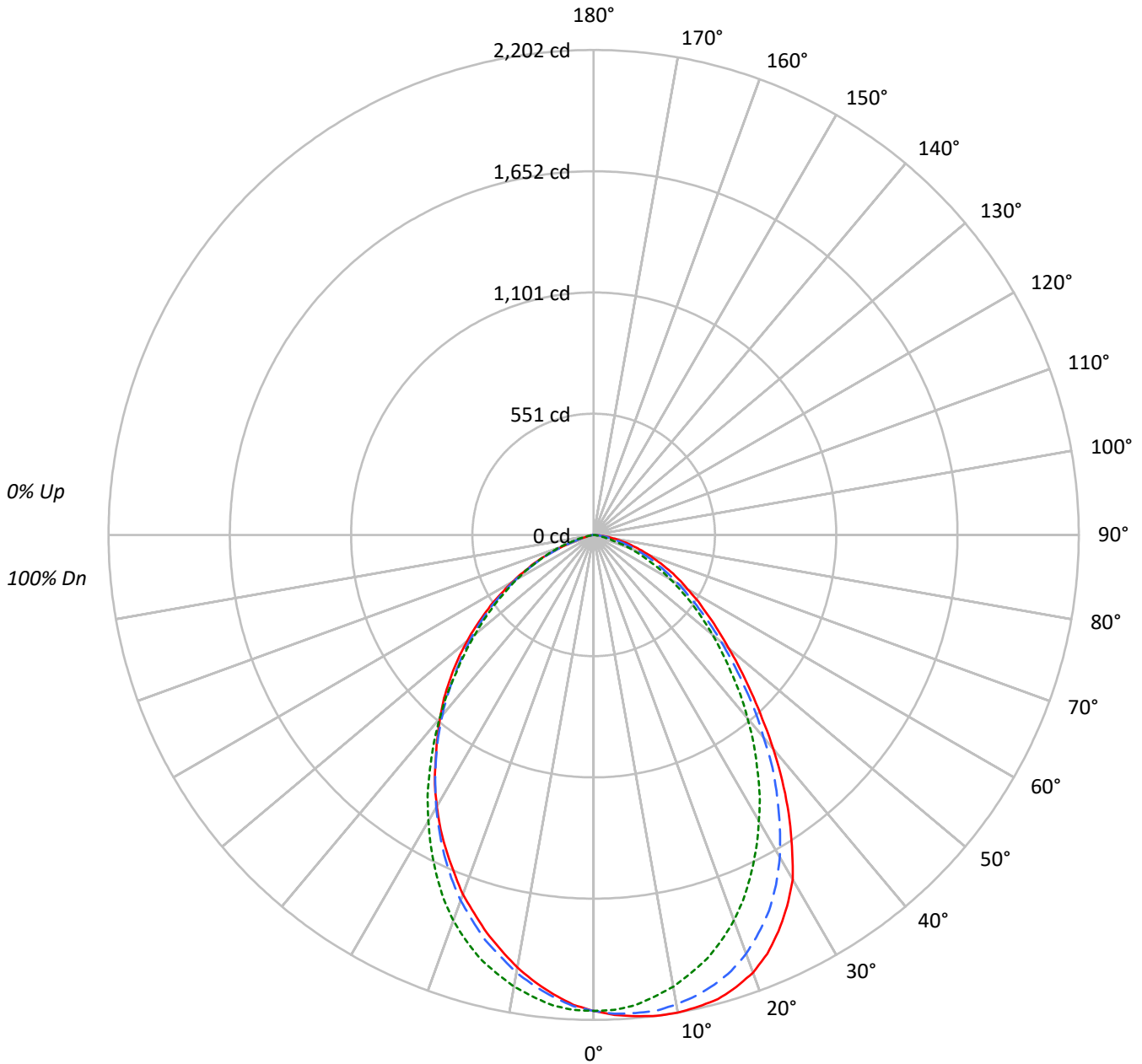
Lumens per Lamp: N/A
Luminaire Lumens: 4051.9 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 52
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: P584991
CATALOG NUMBER: HCC8W55D010BZ-HM82555927-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P584991

CATALOG NUMBER: HCC8W55D010BZ-HM82555927-81RWWH

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				
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°	66650	66650	66650
5°	67901	66359	64818
10°	68962	65201	62449
15°	69655	63577	59743
20°	69388	61125	56990
25°	67558	57596	53809
30°	64341	53392	50683
35°	58100	48730	47074
40°	51046	43740	43619
45°	44063	38446	40103
50°	38354	33715	35965
55°	34010	29284	31332
60°	30343	24743	26007
65°	27355	20087	20518
70°	24289	15048	12144
75°	20933	8721	5230
80°	16124	3125	1563
85°	10367	1026	1026



TEST NUMBER: P584991
 CATALOG NUMBER: HCC8W55D010BZ-HM82555927-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.9	5.0
10°-20°	564.8	13.9
20°-30°	798.9	19.7
30°-40°	841.8	20.8
40°-50°	715.4	17.7
50°-60°	515.2	12.7
60°-70°	297.2	7.3
70°-80°	101.7	2.5
80°-90°	14.0	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°	1566.6	38.7
0°-40°	2408.4	59.4
0°-60°	3639.0	89.8
0°-90°	4051.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4051.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2161	2161	2161	2161	2161	
5°	2194	2179	2144	2106	2094	210
15°	2182	2114	1992	1904	1871	614
25°	1986	1883	1693	1605	1582	911
35°	1543	1453	1294	1248	1250	961
45°	1010	964	882	887	920	785
55°	633	583	545	565	583	569
65°	375	322	275	269	281	373
75°	176	132	73	47	44	185
85°	29	18	3	3	3	39
90°	0	0	0	0	0	



TEST NUMBER: P584991

CATALOG NUMBER: HCC8W55D010BZ-HM82555927-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4
2.5°	2181.9	2184.8	2181.9	2181.9	2179.0	2176.1	2173.1	2170.2	2164.3	2158.5	2158.5
5°	2193.6	2199.5	2193.6	2193.6	2184.8	2179.0	2173.1	2164.3	2152.6	2143.8	2143.8
7.5°	2202.4	2202.4	2202.4	2193.6	2187.8	2179.0	2164.3	2149.7	2135.0	2120.4	2114.5
10°	2202.4	2202.4	2199.5	2187.8	2181.9	2164.3	2149.7	2129.2	2108.7	2088.2	2082.3
12.5°	2193.6	2196.6	2190.7	2179.0	2164.3	2143.8	2123.3	2096.9	2073.5	2050.1	2038.3
15°	2181.9	2179.0	2173.1	2158.5	2140.9	2114.5	2094.0	2064.7	2032.5	2003.2	1991.5
17.5°	2152.6	2152.6	2143.8	2129.2	2105.7	2076.4	2044.2	2012.0	1976.8	1944.7	1930.0
20°	2114.5	2114.5	2102.8	2085.2	2061.8	2023.7	1988.5	1950.6	1909.5	1877.3	1862.7
22.5°	2058.9	2061.8	2047.1	2026.6	2000.3	1956.4	1921.3	1874.4	1833.4	1795.3	1783.5
25°	1985.6	1991.5	1976.8	1956.4	1921.3	1883.2	1839.2	1795.3	1748.4	1710.3	1692.8
27.5°	1900.7	1903.7	1889.0	1868.5	1833.4	1792.3	1748.4	1701.5	1657.7	1616.7	1599.1
30°	1807.0	1795.3	1789.4	1763.0	1724.9	1689.9	1640.1	1602.0	1555.1	1520.0	1499.5
32.5°	1675.3	1681.1	1663.5	1643.0	1613.7	1572.7	1531.7	1487.7	1443.8	1417.5	1402.9
35°	1543.4	1549.3	1540.5	1520.0	1487.7	1452.6	1411.7	1379.4	1341.4	1309.1	1294.5
37.5°	1405.8	1405.8	1400.0	1388.2	1364.8	1332.6	1291.5	1259.3	1227.1	1200.7	1191.9
40°	1268.1	1262.2	1259.3	1250.5	1230.0	1200.7	1174.5	1148.1	1115.9	1098.3	1086.6
42.5°	1133.4	1133.4	1127.6	1118.8	1098.3	1083.6	1057.3	1028.0	1004.5	986.9	986.9
45°	1010.4	1013.3	1004.5	998.7	986.9	963.5	940.1	919.6	899.2	887.4	881.6
47.5°	902.1	902.1	893.3	887.4	875.7	855.2	834.7	817.1	802.5	793.7	790.7
50°	799.5	799.5	799.5	784.9	770.2	755.6	740.9	720.4	711.6	705.8	702.8
52.5°	711.6	708.7	708.7	697.0	682.3	664.8	650.2	632.6	623.9	618.0	620.9
55°	632.6	632.6	629.7	615.1	600.4	582.8	568.2	553.5	547.7	541.8	544.7
56°	600.4	600.4	597.5	585.8	568.2	553.5	536.0	521.3	512.5	515.4	515.4
57°	577.0	571.1	571.1	556.5	541.8	521.3	506.7	492.0	486.1	483.2	483.2
58°	547.7	544.7	541.8	527.2	512.5	494.9	480.3	465.6	456.8	456.8	453.9
59°	518.4	518.4	512.5	500.8	486.1	468.6	453.9	439.3	430.5	427.5	427.5
60°	492.0	494.9	486.1	474.4	462.7	442.2	424.6	412.9	404.1	401.2	401.2
61°	468.6	468.6	462.7	448.1	433.4	418.8	401.2	386.6	380.8	374.9	374.9
62°	448.1	442.2	439.3	424.6	410.0	392.5	377.9	363.2	354.4	348.6	351.5
63°	421.7	418.8	412.9	401.2	386.6	369.1	351.5	339.8	331.0	322.2	325.1
64°	401.2	398.2	389.6	377.9	363.2	345.6	328.0	316.3	310.5	301.7	298.7
65°	374.9	372.0	369.1	354.4	339.8	322.2	307.5	295.8	287.0	281.2	275.3
66°	351.5	354.4	348.6	336.8	319.3	304.6	284.1	272.4	266.5	257.7	251.9
67°	331.0	331.0	325.1	313.4	295.8	281.2	266.5	251.9	243.1	234.3	231.4
67.5°	319.3	319.3	313.4	298.7	287.0	269.4	254.8	243.1	231.4	225.5	219.6
68°	307.5	307.5	304.6	292.9	278.2	260.7	246.0	231.4	219.6	210.8	207.9
69°	287.0	290.0	284.1	272.4	257.7	240.1	225.5	213.8	202.1	193.3	187.4
70°	269.4	266.5	260.7	248.9	234.3	222.6	207.9	193.3	181.5	169.8	166.9
71°	246.0	246.0	240.1	231.4	216.7	202.1	187.4	175.7	164.0	149.3	146.4
72°	228.4	228.4	222.6	210.8	199.1	184.5	169.8	155.2	146.4	131.7	126.0
72.5°	216.7	219.6	213.8	202.1	190.3	172.8	161.0	149.3	134.7	123.1	117.2
73°	210.8	207.9	205.0	193.3	178.6	166.9	152.2	140.5	126.0	114.3	108.4



TEST NUMBER: P584991
 CATALOG NUMBER: HCC8W55D010BZ-HM82555927-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	131.7	131.7	128.9	117.2	105.5	93.8	82.0	70.3	58.6	46.9	41.0
80°	90.8	93.8	87.9	82.0	73.2	61.5	49.8	41.0	29.3	23.4	17.6
82.5°	58.6	58.6	55.7	49.8	43.9	35.2	29.3	20.5	14.6	11.7	8.8
85°	29.3	32.2	29.3	26.4	20.5	17.6	14.6	8.8	5.9	2.9	2.9
87.5°	11.7	11.7	11.7	8.8	8.8	5.9	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



TEST NUMBER: P584991

CATALOG NUMBER: HCC8W55D010BZ-HM82555927-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4
2.5°	2152.6	2152.6	2146.8	2143.8	2140.9	2138.0	2135.0	2132.1	2132.1	2135.0
5°	2135.0	2129.2	2117.5	2114.5	2105.7	2102.8	2096.9	2094.0	2096.9	2094.0
7.5°	2108.7	2096.9	2082.3	2076.4	2064.7	2058.9	2050.1	2050.1	2044.2	2047.1
10°	2073.5	2055.9	2038.3	2026.6	2017.8	2009.0	2003.2	1997.3	1994.4	1994.4
12.5°	2029.6	2009.0	1991.5	1973.9	1959.3	1953.5	1941.8	1941.8	1935.9	1933.0
15°	1979.7	1953.5	1933.0	1915.4	1903.7	1892.0	1883.2	1877.3	1871.4	1871.4
17.5°	1915.4	1892.0	1871.4	1850.9	1833.4	1824.6	1815.8	1807.0	1807.0	1801.1
20°	1845.1	1818.7	1801.1	1780.6	1766.0	1751.3	1739.6	1739.6	1733.7	1736.7
22.5°	1766.0	1733.7	1716.2	1701.5	1687.0	1675.3	1663.5	1663.5	1660.6	1657.7
25°	1678.2	1651.8	1631.3	1613.7	1604.9	1593.2	1590.3	1584.4	1581.5	1581.5
27.5°	1584.4	1563.9	1537.5	1528.8	1517.0	1511.2	1511.2	1508.2	1502.4	1505.3
30°	1484.8	1461.4	1446.7	1440.9	1429.3	1429.3	1426.3	1420.5	1420.5	1423.4
32.5°	1388.2	1364.8	1353.1	1350.1	1338.4	1338.4	1335.5	1338.4	1338.4	1341.4
35°	1282.8	1262.2	1259.3	1250.5	1247.6	1247.6	1247.6	1253.5	1259.3	1250.5
37.5°	1183.1	1168.6	1159.8	1156.9	1159.8	1159.8	1162.7	1171.5	1168.6	1165.7
40°	1080.7	1069.0	1063.1	1063.1	1069.0	1074.8	1074.8	1083.6	1086.6	1083.6
42.5°	978.2	969.4	969.4	972.3	978.2	981.1	989.9	998.7	1001.6	1004.5
45°	881.6	881.6	881.6	884.5	887.4	893.3	905.0	913.8	916.6	919.6
47.5°	787.8	784.9	793.7	796.6	805.4	808.3	817.1	828.8	831.8	834.7
50°	699.9	705.8	708.7	717.5	723.4	723.4	735.1	740.9	749.7	749.7
52.5°	618.0	626.8	629.7	638.5	641.4	644.4	650.2	658.9	664.8	664.8
55°	544.7	547.7	553.5	556.5	565.3	568.2	574.0	577.0	585.8	582.8
56°	512.5	518.4	521.3	527.2	533.0	536.0	541.8	544.7	550.6	553.5
57°	483.2	486.1	494.9	497.9	503.7	503.7	506.7	515.4	515.4	518.4
58°	453.9	459.8	462.7	465.6	471.5	474.4	480.3	483.2	486.1	483.2
59°	427.5	430.5	433.4	433.4	439.3	439.3	448.1	453.9	456.8	456.8
60°	401.2	401.2	404.1	407.0	412.9	415.8	415.8	421.7	421.7	421.7
61°	374.9	374.9	377.9	380.8	383.7	383.7	389.6	389.6	392.5	395.3
62°	351.5	348.6	348.6	351.5	351.5	357.3	360.3	363.2	366.1	363.2
63°	325.1	322.2	322.2	322.2	322.2	328.0	328.0	331.0	336.8	333.9
64°	295.8	295.8	295.8	295.8	298.7	298.7	304.6	307.5	310.5	313.4
65°	275.3	269.4	266.5	266.5	269.4	272.4	275.3	278.2	281.2	281.2
66°	251.9	246.0	243.1	243.1	243.1	243.1	248.9	248.9	254.8	254.8
67°	225.5	219.6	216.7	213.8	213.8	213.8	222.6	219.6	219.6	219.6
67.5°	216.7	207.9	205.0	202.1	199.1	205.0	202.1	205.0	205.0	202.1
68°	205.0	199.1	193.3	187.4	187.4	187.4	190.3	193.3	190.3	187.4
69°	181.5	178.6	169.8	164.0	161.0	164.0	161.0	164.0	161.0	164.0
70°	161.0	152.2	143.5	140.5	137.6	137.6	137.6	134.7	137.6	134.7
71°	140.5	131.7	123.1	117.2	114.3	114.3	111.3	114.3	111.3	114.3
72°	120.1	111.3	99.6	93.8	93.8	93.8	93.8	90.8	93.8	90.8
72.5°	111.3	99.6	90.8	85.0	82.0	82.0	82.0	82.0	79.1	82.0
73°	102.6	90.8	79.1	76.2	76.2	76.2	73.2	70.3	73.2	73.2



TEST NUMBER: P584991
 CATALOG NUMBER: HCC8W55D010BZ-HM82555927-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	35.2	26.4	23.4	23.4	23.4	23.4	23.4	23.4	20.5	20.5
80°	14.6	11.7	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
82.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
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
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



74°	190.3	190.3	184.5	175.7	161.0	146.4	134.7	123.1	108.4	93.8	87.9
75°	175.7	172.8	166.9	158.1	146.4	131.7	120.1	105.5	93.8	79.1	73.2

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°	85.0	70.3	64.5	58.6	58.6	58.6	55.7	55.7	55.7	58.6
75°	67.4	55.7	49.8	43.9	46.9	43.9	46.9	43.9	43.9	43.9

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

Scaled Data Report



(END OF REPORT)