

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: P593750

Luminaire Tested: **HCC8W40D010MB-HM82555950-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593750
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: HCC8W40D010MB-HM82555950-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

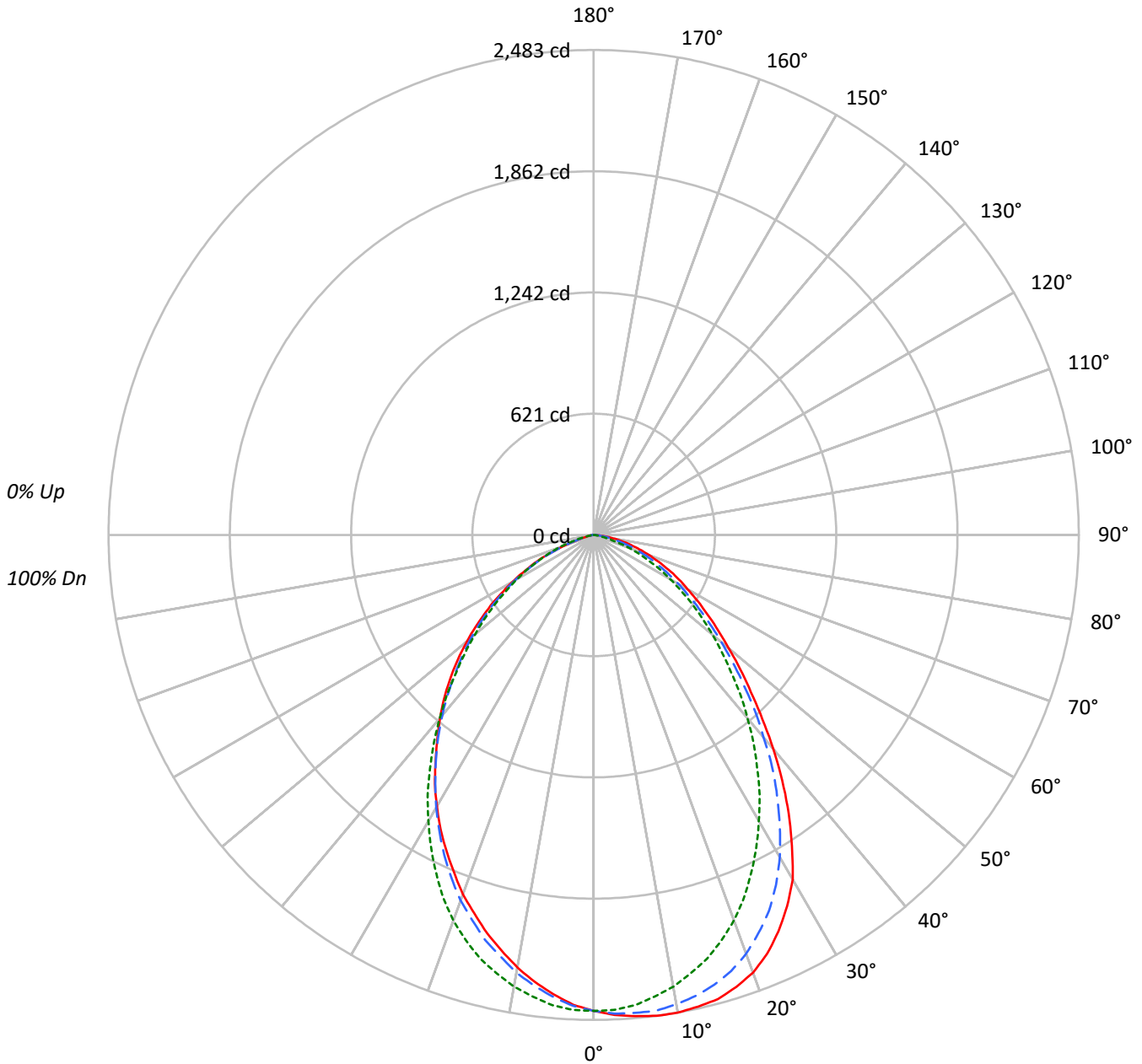
Lumens per Lamp: N/A
Luminaire Lumens: 4568.5 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (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: P593750
CATALOG NUMBER: HCC8W40D010MB-HM82555950-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P593750

CATALOG NUMBER: HCC8W40D010MB-HM82555950-81RWWH

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°	75148	75148	75148
5°	76559	74819	73086
10°	77754	73517	70411
15°	78536	71682	67363
20°	78238	68915	64256
25°	76177	64938	60668
30°	72545	60204	57142
35°	65512	54942	53078
40°	57555	49315	49182
45°	49680	43343	45214
50°	43243	38018	40556
55°	38348	33020	35327
60°	34216	27901	29325
65°	30842	22648	23130
70°	27390	16977	13686
75°	23602	9841	5898
80°	18166	3516	1758
85°	11676	1168	1168



TEST NUMBER: P593750
 CATALOG NUMBER: HCC8W40D010MB-HM82555950-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.8	5.0
10°-20°	636.9	13.9
20°-30°	900.7	19.7
30°-40°	949.2	20.8
40°-50°	806.6	17.7
50°-60°	580.9	12.7
60°-70°	335.1	7.3
70°-80°	114.6	2.5
80°-90°	15.7	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°	1766.4	38.7
0°-40°	2715.5	59.4
0°-60°	4103.1	89.8
0°-90°	4568.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4568.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2437	2437	2437	2437	2437	
5°	2473	2457	2417	2374	2361	236
15°	2460	2384	2245	2146	2110	693
25°	2239	2123	1909	1810	1783	1027
35°	1740	1638	1460	1407	1410	1084
45°	1139	1086	994	1001	1037	885
55°	713	657	614	637	657	642
65°	423	363	310	304	317	420
75°	198	149	83	53	50	209
85°	33	20	3	3	3	44
90°	0	0	0	0	0	



TEST NUMBER: P593750

CATALOG NUMBER: HCC8W40D010MB-HM82555950-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2437.0	2437.0	2437.0	2437.0	2437.0	2437.0	2437.0	2437.0	2437.0	2437.0	2437.0
2.5°	2460.1	2463.4	2460.1	2460.1	2456.8	2453.5	2450.2	2446.9	2440.3	2433.7	2433.7
5°	2473.3	2480.0	2473.3	2473.3	2463.4	2456.8	2450.2	2440.3	2427.1	2417.1	2417.1
7.5°	2483.2	2483.2	2483.2	2473.3	2466.8	2456.8	2440.3	2423.8	2407.3	2390.7	2384.2
10°	2483.2	2483.2	2480.0	2466.8	2460.1	2440.3	2423.8	2400.7	2377.5	2354.4	2347.9
12.5°	2473.3	2476.6	2470.0	2456.8	2440.3	2417.1	2394.0	2364.3	2337.9	2311.5	2298.2
15°	2460.1	2456.8	2450.2	2433.7	2413.9	2384.2	2361.1	2328.0	2291.7	2258.6	2245.4
17.5°	2427.1	2427.1	2417.1	2400.7	2374.3	2341.2	2304.9	2268.6	2229.0	2192.6	2176.2
20°	2384.2	2384.2	2371.0	2351.1	2324.7	2281.8	2242.2	2199.2	2152.9	2116.7	2100.1
22.5°	2321.5	2324.7	2308.2	2285.0	2255.4	2205.8	2166.2	2113.3	2067.1	2024.2	2011.0
25°	2238.9	2245.4	2229.0	2205.8	2166.2	2123.3	2073.7	2024.2	1971.4	1928.4	1908.6
27.5°	2143.1	2146.4	2129.9	2106.8	2067.1	2020.9	1971.4	1918.5	1869.0	1822.7	1803.0
30°	2037.4	2024.2	2017.6	1987.9	1944.9	1905.3	1849.1	1806.3	1753.5	1713.8	1690.8
32.5°	1888.8	1895.4	1875.6	1852.5	1819.5	1773.2	1727.0	1677.5	1627.9	1598.3	1581.7
35°	1740.3	1746.8	1736.9	1713.8	1677.5	1637.9	1591.6	1555.3	1512.4	1476.1	1459.5
37.5°	1585.1	1585.1	1578.4	1565.2	1538.8	1502.5	1456.2	1419.9	1383.6	1353.9	1344.0
40°	1429.8	1423.2	1419.9	1410.0	1386.9	1353.9	1324.1	1294.5	1258.1	1238.3	1225.1
42.5°	1277.9	1277.9	1271.3	1261.4	1238.3	1221.8	1192.0	1159.1	1132.6	1112.8	1112.8
45°	1139.2	1142.5	1132.6	1126.0	1112.8	1086.4	1059.9	1036.8	1013.8	1000.6	993.9
47.5°	1017.1	1017.1	1007.1	1000.6	987.3	964.3	941.1	921.3	904.8	894.9	891.5
50°	901.4	901.4	901.4	885.0	868.5	851.9	835.5	812.3	802.4	795.9	792.5
52.5°	802.4	799.1	799.1	785.9	769.5	749.6	733.0	713.3	703.4	696.7	700.1
55°	713.3	713.3	710.0	693.4	677.0	657.1	640.6	624.2	617.5	610.9	614.2
56°	677.0	677.0	673.7	660.4	640.6	624.2	604.3	587.7	577.9	581.2	581.2
57°	650.6	643.9	643.9	627.4	610.9	587.7	571.3	554.8	548.1	544.9	544.9
58°	617.5	614.2	610.9	594.4	577.9	558.1	541.6	525.0	515.2	515.2	511.8
59°	584.5	584.5	577.9	564.7	548.1	528.4	511.8	495.3	485.4	482.1	482.1
60°	554.8	558.1	548.1	534.9	521.7	498.6	478.9	465.6	455.7	452.4	452.4
61°	528.4	528.4	521.7	505.3	488.7	472.2	452.4	435.9	429.2	422.7	422.7
62°	505.3	498.6	495.3	478.9	462.3	442.4	426.0	409.5	399.6	392.9	396.3
63°	475.5	472.2	465.6	452.4	435.9	416.0	396.3	383.1	373.2	363.2	366.5
64°	452.4	449.1	439.2	426.0	409.5	389.6	369.9	356.6	350.0	340.1	336.8
65°	422.7	419.4	416.0	399.6	383.1	363.2	346.8	333.6	323.6	317.0	310.4
66°	396.3	399.6	392.9	379.7	360.0	343.4	320.3	307.1	300.5	290.6	283.9
67°	373.2	373.2	366.5	353.3	333.6	317.0	300.5	283.9	274.1	264.2	260.8
67.5°	360.0	360.0	353.3	336.8	323.6	303.8	287.3	274.1	260.8	254.3	247.6
68°	346.8	346.8	343.4	330.2	313.7	293.9	277.4	260.8	247.6	237.8	234.4
69°	323.6	326.9	320.3	307.1	290.6	270.7	254.3	241.1	227.9	217.9	211.3
70°	303.8	300.5	293.9	280.7	264.2	251.0	234.4	217.9	204.7	191.5	188.3
71°	277.4	277.4	270.7	260.8	244.3	227.9	211.3	198.1	184.9	168.4	165.1
72°	257.5	257.5	251.0	237.8	224.6	208.0	191.5	175.0	165.1	148.6	142.0
72.5°	244.3	247.6	241.1	227.9	214.7	194.8	181.6	168.4	151.8	138.6	132.1
73°	237.8	234.4	231.1	217.9	201.5	188.3	171.7	158.5	142.0	128.8	122.2



TEST NUMBER: P593750
 CATALOG NUMBER: HCC8W40D010MB-HM82555950-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	148.6	148.6	145.3	132.1	118.9	105.7	92.5	79.3	66.0	52.8	46.2
80°	102.3	105.7	99.0	92.5	82.6	69.4	56.2	46.2	33.0	26.4	19.8
82.5°	66.0	66.0	62.7	56.2	49.5	39.6	33.0	23.1	16.5	13.2	9.9
85°	33.0	36.3	33.0	29.8	23.1	19.8	16.5	9.9	6.5	3.3	3.3
87.5°	13.2	13.2	13.2	9.9	9.9	6.5	3.3	3.3	3.3	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: P593750

CATALOG NUMBER: HCC8W40D010MB-HM82555950-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2437.0	2437.0	2437.0	2437.0	2437.0	2437.0	2437.0	2437.0	2437.0	2437.0
2.5°	2427.1	2427.1	2420.5	2417.1	2413.9	2410.6	2407.3	2403.9	2403.9	2407.3
5°	2407.3	2400.7	2387.5	2384.2	2374.3	2371.0	2364.3	2361.1	2364.3	2361.1
7.5°	2377.5	2364.3	2347.9	2341.2	2328.0	2321.5	2311.5	2311.5	2304.9	2308.2
10°	2337.9	2318.1	2298.2	2285.0	2275.2	2265.3	2258.6	2252.1	2248.7	2248.7
12.5°	2288.4	2265.3	2245.4	2225.7	2209.1	2202.6	2189.4	2189.4	2182.7	2179.4
15°	2232.2	2202.6	2179.4	2159.6	2146.4	2133.2	2123.3	2116.7	2110.1	2110.1
17.5°	2159.6	2133.2	2110.1	2086.9	2067.1	2057.3	2047.3	2037.4	2037.4	2030.9
20°	2080.4	2050.6	2030.9	2007.6	1991.2	1974.7	1961.5	1961.5	1954.8	1958.1
22.5°	1991.2	1954.8	1935.1	1918.5	1902.0	1888.8	1875.6	1875.6	1872.3	1869.0
25°	1892.1	1862.4	1839.3	1819.5	1809.5	1796.3	1793.1	1786.4	1783.1	1783.1
27.5°	1786.4	1763.3	1733.6	1723.7	1710.5	1704.0	1704.0	1700.6	1694.0	1697.3
30°	1674.2	1647.8	1631.3	1624.7	1611.5	1611.5	1608.2	1601.5	1601.5	1604.8
32.5°	1565.2	1538.8	1525.6	1522.2	1509.0	1509.0	1505.8	1509.0	1509.0	1512.4
35°	1446.3	1423.2	1419.9	1410.0	1406.7	1406.7	1406.7	1413.4	1419.9	1410.0
37.5°	1334.1	1317.6	1307.7	1304.4	1307.7	1307.7	1310.9	1320.9	1317.6	1314.2
40°	1218.4	1205.2	1198.7	1198.7	1205.2	1211.9	1211.9	1221.8	1225.1	1221.8
42.5°	1102.9	1093.0	1093.0	1096.3	1102.9	1106.2	1116.1	1126.0	1129.3	1132.6
45°	993.9	993.9	993.9	997.2	1000.6	1007.1	1020.3	1030.3	1033.5	1036.8
47.5°	888.2	885.0	894.9	898.2	908.1	911.4	921.3	934.5	937.8	941.1
50°	789.2	795.9	799.1	809.1	815.6	815.6	828.8	835.5	845.4	845.4
52.5°	696.7	706.6	710.0	719.8	723.2	726.5	733.0	743.0	749.6	749.6
55°	614.2	617.5	624.2	627.4	637.4	640.6	647.2	650.6	660.4	657.1
56°	577.9	584.5	587.7	594.4	600.9	604.3	610.9	614.2	620.8	624.2
57°	544.9	548.1	558.1	561.3	568.0	568.0	571.3	581.2	581.2	584.5
58°	511.8	518.5	521.7	525.0	531.7	534.9	541.6	544.9	548.1	544.9
59°	482.1	485.4	488.7	488.7	495.3	495.3	505.3	511.8	515.2	515.2
60°	452.4	452.4	455.7	459.0	465.6	468.9	468.9	475.5	475.5	475.5
61°	422.7	422.7	426.0	429.2	432.6	432.6	439.2	439.2	442.4	445.8
62°	396.3	392.9	392.9	396.3	396.3	402.8	406.1	409.5	412.8	409.5
63°	366.5	363.2	363.2	363.2	363.2	369.9	369.9	373.2	379.7	376.4
64°	333.6	333.6	333.6	333.6	336.8	336.8	343.4	346.8	350.0	353.3
65°	310.4	303.8	300.5	300.5	303.8	307.1	310.4	313.7	317.0	317.0
66°	283.9	277.4	274.1	274.1	274.1	274.1	280.7	280.7	287.3	287.3
67°	254.3	247.6	244.3	241.1	241.1	241.1	251.0	247.6	247.6	247.6
67.5°	244.3	234.4	231.1	227.9	224.6	231.1	227.9	231.1	231.1	227.9
68°	231.1	224.6	217.9	211.3	211.3	211.3	214.7	217.9	214.7	211.3
69°	204.7	201.5	191.5	184.9	181.6	184.9	181.6	184.9	181.6	184.9
70°	181.6	171.7	161.8	158.5	155.2	155.2	155.2	151.8	155.2	151.8
71°	158.5	148.6	138.6	132.1	128.8	128.8	125.4	128.8	125.4	128.8
72°	135.4	125.4	112.2	105.7	105.7	105.7	105.7	102.3	105.7	102.3
72.5°	125.4	112.2	102.3	95.8	92.5	92.5	92.5	92.5	89.1	92.5
73°	115.5	102.3	89.1	85.8	85.8	85.8	82.6	79.3	82.6	82.6



TEST NUMBER: P593750
CATALOG NUMBER: HCC8W40D010MB-HM82555950-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	39.6	29.8	26.4	26.4	26.4	26.4	26.4	26.4	23.1	23.1
80°	16.5	13.2	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
82.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
85°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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°	214.7	214.7	208.0	198.1	181.6	165.1	151.8	138.6	122.2	105.7	99.0
75°	198.1	194.8	188.3	178.3	165.1	148.6	135.4	118.9	105.7	89.1	82.6

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°	95.8	79.3	72.6	66.0	66.0	66.0	62.7	62.7	62.7	66.0
75°	75.9	62.7	56.2	49.5	52.8	49.5	52.8	49.5	49.5	49.5

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

Scaled Data Report



(END OF REPORT)