

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: P585042

Luminaire Tested: **HCC8W55D010MB-HM82555940-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585042
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: HCC8W55D010MB-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

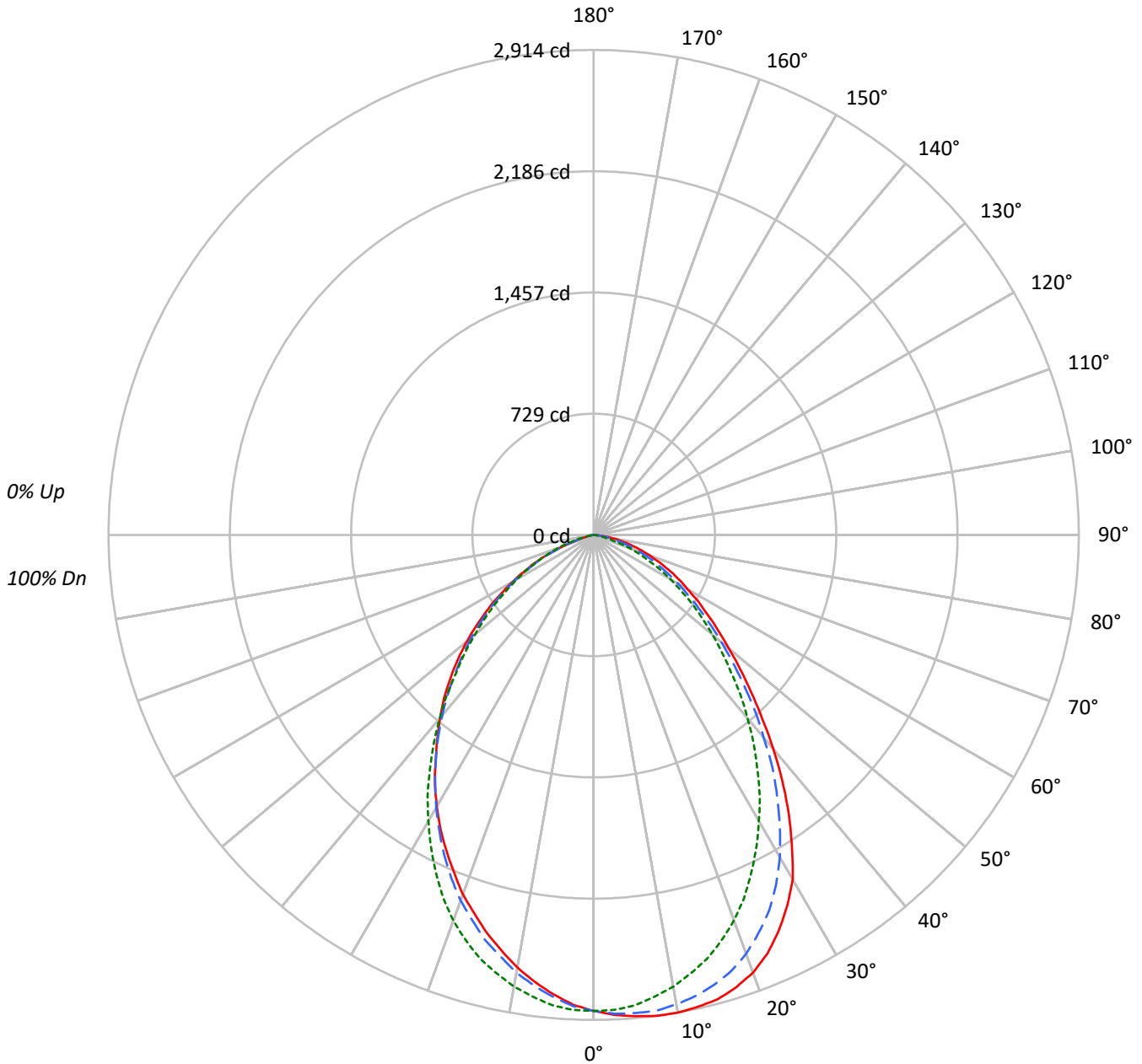
Lumens per Lamp: N/A
Luminaire Lumens: 5362.1 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 52
Input Voltage (V): NR
Input Current (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: P585042
CATALOG NUMBER: HCC8W55D010MB-HM82555940-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P585042

CATALOG NUMBER: HCC8W55D010MB-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				
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°	88201	88201	88201
5°	89857	87820	85777
10°	91259	86283	82642
15°	92174	84136	79063
20°	91827	80890	75419
25°	89405	76221	71206
30°	85146	70654	67069
35°	76884	64488	62301
40°	67554	57881	57728
45°	58310	50874	53072
50°	50760	44624	47599
55°	45009	38757	41466
60°	40161	32742	34419
65°	36198	26581	27150
70°	32142	19916	16075
75°	27701	11545	6922
80°	21327	4120	2060
85°	13728	1380	1380



TEST NUMBER: P585042
 CATALOG NUMBER: HCC8W55D010MB-HM82555940-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.5	5.0
10°-20°	747.5	13.9
20°-30°	1057.2	19.7
30°-40°	1114.0	20.8
40°-50°	946.8	17.7
50°-60°	681.8	12.7
60°-70°	393.3	7.3
70°-80°	134.6	2.5
80°-90°	18.5	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°	2073.2	38.7
0°-40°	3187.2	59.4
0°-60°	4815.7	89.8
0°-90°	5362.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5362.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2860	2860	2860	2860	2860	
5°	2903	2884	2837	2787	2771	277
15°	2887	2798	2636	2519	2477	813
25°	2628	2492	2240	2124	2093	1205
35°	2042	1922	1713	1651	1655	1272
45°	1337	1275	1167	1174	1217	1039
55°	837	771	721	748	771	753
65°	496	426	364	356	372	493
75°	232	174	97	62	58	245
85°	39	23	4	4	4	52
90°	0	0	0	0	0	



TEST NUMBER: P585042

CATALOG NUMBER: HCC8W55D010MB-HM82555940-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3
2.5°	2887.3	2891.3	2887.3	2887.3	2883.5	2879.6	2875.7	2871.9	2864.1	2856.4	2856.4
5°	2902.9	2910.7	2902.9	2902.9	2891.3	2883.5	2875.7	2864.1	2848.7	2837.1	2837.1
7.5°	2914.5	2914.5	2914.5	2902.9	2895.2	2883.5	2864.1	2844.8	2825.3	2806.0	2798.3
10°	2914.5	2914.5	2910.7	2895.2	2887.3	2864.1	2844.8	2817.6	2790.5	2763.3	2755.6
12.5°	2902.9	2906.8	2899.1	2883.5	2864.1	2837.1	2809.9	2774.9	2744.0	2712.9	2697.5
15°	2887.3	2883.5	2875.7	2856.4	2833.2	2798.3	2771.1	2732.4	2689.7	2650.9	2635.5
17.5°	2848.7	2848.7	2837.1	2817.6	2786.7	2747.9	2705.2	2662.5	2616.1	2573.5	2554.1
20°	2798.3	2798.3	2782.8	2759.5	2728.5	2678.1	2631.6	2581.2	2526.9	2484.3	2465.0
22.5°	2724.7	2728.5	2709.1	2682.0	2647.1	2588.9	2542.4	2480.4	2426.2	2375.8	2360.3
25°	2627.7	2635.5	2616.1	2588.9	2542.4	2492.0	2433.9	2375.8	2313.8	2263.4	2240.2
27.5°	2515.3	2519.2	2499.9	2472.7	2426.2	2371.9	2313.8	2251.8	2193.6	2139.4	2116.2
30°	2391.3	2375.8	2368.0	2333.2	2282.8	2236.3	2170.4	2120.0	2058.0	2011.5	1984.3
32.5°	2217.0	2224.7	2201.4	2174.3	2135.5	2081.2	2027.0	1968.8	1910.7	1875.8	1856.4
35°	2042.4	2050.3	2038.6	2011.5	1968.8	1922.3	1868.1	1825.5	1775.1	1732.5	1713.1
37.5°	1860.3	1860.3	1852.6	1837.1	1806.1	1763.4	1709.1	1666.6	1623.9	1589.0	1577.4
40°	1678.2	1670.5	1666.6	1655.0	1627.8	1589.0	1554.2	1519.3	1476.6	1453.4	1437.9
42.5°	1499.9	1499.9	1492.2	1480.5	1453.4	1434.1	1399.1	1360.3	1329.4	1306.1	1306.1
45°	1337.1	1341.0	1329.4	1321.7	1306.1	1275.1	1244.1	1217.0	1189.8	1174.3	1166.6
47.5°	1193.7	1193.7	1182.1	1174.3	1158.9	1131.7	1104.6	1081.3	1061.9	1050.3	1046.5
50°	1058.1	1058.1	1058.1	1038.7	1019.3	1000.0	980.5	953.4	941.8	934.1	930.2
52.5°	941.8	938.0	938.0	922.4	903.0	879.8	860.4	837.2	825.6	817.8	821.7
55°	837.2	837.2	833.3	814.0	794.5	771.3	751.8	732.5	724.8	717.0	720.9
56°	794.5	794.5	790.6	775.2	751.8	732.5	709.3	689.8	678.2	682.1	682.1
57°	763.6	755.7	755.7	736.4	717.0	689.8	670.5	651.2	643.3	639.4	639.4
58°	724.8	720.9	717.0	697.6	678.2	655.0	635.6	616.2	604.6	604.6	600.8
59°	686.0	686.0	678.2	662.8	643.3	620.1	600.8	581.3	569.7	565.8	565.8
60°	651.2	655.0	643.3	627.8	612.4	585.2	562.0	546.5	534.9	530.9	530.9
61°	620.1	620.1	612.4	593.0	573.6	554.2	530.9	511.6	503.8	496.1	496.1
62°	593.0	585.2	581.3	562.0	542.6	519.3	500.0	480.6	468.9	461.2	465.0
63°	558.1	554.2	546.5	530.9	511.6	488.4	465.0	449.6	438.0	426.4	430.2
64°	530.9	527.0	515.4	500.0	480.6	457.3	434.1	418.5	410.8	399.2	395.3
65°	496.1	492.2	488.4	468.9	449.6	426.4	406.9	391.4	379.8	372.1	364.3
66°	465.0	468.9	461.2	445.7	422.5	403.1	376.0	360.4	352.7	341.1	333.3
67°	438.0	438.0	430.2	414.7	391.4	372.1	352.7	333.3	321.7	310.1	306.1
67.5°	422.5	422.5	414.7	395.3	379.8	356.5	337.2	321.7	306.1	298.4	290.7
68°	406.9	406.9	403.1	387.6	368.2	344.9	325.6	306.1	290.7	279.1	275.2
69°	379.8	383.7	376.0	360.4	341.1	317.8	298.4	282.9	267.5	255.8	248.0
70°	356.5	352.7	344.9	329.4	310.1	294.5	275.2	255.8	240.3	224.8	220.9
71°	325.6	325.6	317.8	306.1	286.8	267.5	248.0	232.5	217.1	197.7	193.7
72°	302.3	302.3	294.5	279.1	263.6	244.1	224.8	205.5	193.7	174.4	166.7
72.5°	286.8	290.7	282.9	267.5	251.9	228.7	213.2	197.7	178.3	162.8	155.1
73°	279.1	275.2	271.3	255.8	236.4	220.9	201.6	186.0	166.7	151.2	143.5



TEST NUMBER: P585042
 CATALOG NUMBER: HCC8W55D010MB-HM82555940-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	174.4	174.4	170.5	155.1	139.5	124.0	108.5	93.1	77.5	62.0	54.3
80°	120.1	124.0	116.3	108.5	96.9	81.3	65.9	54.3	38.8	31.1	23.2
82.5°	77.5	77.5	73.6	65.9	58.1	46.5	38.8	27.1	19.3	15.5	11.6
85°	38.8	42.7	38.8	34.9	27.1	23.2	19.3	11.6	7.7	3.9	3.9
87.5°	15.5	15.5	15.5	11.6	11.6	7.7	3.9	3.9	3.9	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: P585042

CATALOG NUMBER: HCC8W55D010MB-HM82555940-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3	2860.3
2.5°	2848.7	2848.7	2840.9	2837.1	2833.2	2829.2	2825.3	2821.5	2821.5	2825.3
5°	2825.3	2817.6	2802.1	2798.3	2786.7	2782.8	2774.9	2771.1	2774.9	2771.1
7.5°	2790.5	2774.9	2755.6	2747.9	2732.4	2724.7	2712.9	2712.9	2705.2	2709.1
10°	2744.0	2720.8	2697.5	2682.0	2670.4	2658.7	2650.9	2643.2	2639.3	2639.3
12.5°	2685.9	2658.7	2635.5	2612.3	2592.8	2585.1	2569.6	2569.6	2561.9	2558.0
15°	2620.0	2585.1	2558.0	2534.7	2519.2	2503.7	2492.0	2484.3	2476.6	2476.6
17.5°	2534.7	2503.7	2476.6	2449.5	2426.2	2414.6	2403.0	2391.3	2391.3	2383.5
20°	2441.7	2406.8	2383.5	2356.4	2337.1	2317.6	2302.2	2302.2	2294.4	2298.3
22.5°	2337.1	2294.4	2271.1	2251.8	2232.4	2217.0	2201.4	2201.4	2197.5	2193.6
25°	2220.8	2185.9	2158.7	2135.5	2123.9	2108.4	2104.6	2096.7	2092.8	2092.8
27.5°	2096.7	2069.6	2034.7	2023.1	2007.6	1999.9	1999.9	1996.0	1988.2	1992.2
30°	1965.0	1933.9	1914.6	1906.8	1891.4	1891.4	1887.5	1879.8	1879.8	1883.6
32.5°	1837.1	1806.1	1790.6	1786.7	1771.2	1771.2	1767.4	1771.2	1771.2	1775.1
35°	1697.5	1670.5	1666.6	1655.0	1651.0	1651.0	1651.0	1658.8	1666.6	1655.0
37.5°	1565.8	1546.5	1534.7	1530.9	1534.7	1534.7	1538.6	1550.3	1546.5	1542.6
40°	1430.1	1414.6	1406.9	1406.9	1414.6	1422.3	1422.3	1434.1	1437.9	1434.1
42.5°	1294.5	1282.9	1282.9	1286.7	1294.5	1298.3	1309.9	1321.7	1325.5	1329.4
45°	1166.6	1166.6	1166.6	1170.5	1174.3	1182.1	1197.5	1209.3	1213.1	1217.0
47.5°	1042.6	1038.7	1050.3	1054.2	1065.8	1069.7	1081.3	1096.9	1100.7	1104.6
50°	926.3	934.1	938.0	949.6	957.3	957.3	972.8	980.5	992.2	992.2
52.5°	817.8	829.4	833.3	844.9	848.8	852.6	860.4	872.1	879.8	879.8
55°	720.9	724.8	732.5	736.4	748.0	751.8	759.7	763.6	775.2	771.3
56°	678.2	686.0	689.8	697.6	705.4	709.3	717.0	720.9	728.6	732.5
57°	639.4	643.3	655.0	658.9	666.6	666.6	670.5	682.1	682.1	686.0
58°	600.8	608.5	612.4	616.2	624.0	627.8	635.6	639.4	643.3	639.4
59°	565.8	569.7	573.6	573.6	581.3	581.3	593.0	600.8	604.6	604.6
60°	530.9	530.9	534.9	538.8	546.5	550.4	550.4	558.1	558.1	558.1
61°	496.1	496.1	500.0	503.8	507.7	507.7	515.4	515.4	519.3	523.2
62°	465.0	461.2	461.2	465.0	465.0	472.8	476.7	480.6	484.5	480.6
63°	430.2	426.4	426.4	426.4	426.4	434.1	434.1	438.0	445.7	441.8
64°	391.4	391.4	391.4	391.4	395.3	395.3	403.1	406.9	410.8	414.7
65°	364.3	356.5	352.7	352.7	356.5	360.4	364.3	368.2	372.1	372.1
66°	333.3	325.6	321.7	321.7	321.7	321.7	329.4	329.4	337.2	337.2
67°	298.4	290.7	286.8	282.9	282.9	282.9	294.5	290.7	290.7	290.7
67.5°	286.8	275.2	271.3	267.5	263.6	271.3	267.5	271.3	271.3	267.5
68°	271.3	263.6	255.8	248.0	248.0	248.0	251.9	255.8	251.9	248.0
69°	240.3	236.4	224.8	217.1	213.2	217.1	213.2	217.1	213.2	217.1
70°	213.2	201.6	189.9	186.0	182.1	182.1	182.1	178.3	182.1	178.3
71°	186.0	174.4	162.8	155.1	151.2	151.2	147.3	151.2	147.3	151.2
72°	158.9	147.3	131.7	124.0	124.0	124.0	124.0	120.1	124.0	120.1
72.5°	147.3	131.7	120.1	112.4	108.5	108.5	108.5	108.5	104.7	108.5
73°	135.6	120.1	104.7	100.8	100.8	100.8	96.9	93.1	96.9	96.9



TEST NUMBER: P585042
CATALOG NUMBER: HCC8W55D010MB-HM82555940-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	46.5	34.9	31.1	31.1	31.1	31.1	31.1	31.1	27.1	27.1
80°	19.3	15.5	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
82.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
85°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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°	251.9	251.9	244.1	232.5	213.2	193.7	178.3	162.8	143.5	124.0	116.3
75°	232.5	228.7	220.9	209.3	193.7	174.4	158.9	139.5	124.0	104.7	96.9

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°	112.4	93.1	85.3	77.5	77.5	77.5	73.6	73.6	73.6	77.5
75°	89.2	73.6	65.9	58.1	62.0	58.1	62.0	58.1	58.1	58.1

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

Scaled Data Report



(END OF REPORT)