

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: P585008

Luminaire Tested: **HCC8S55D010BZ-HM82555930-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585008
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: HCC8S55D010BZ-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

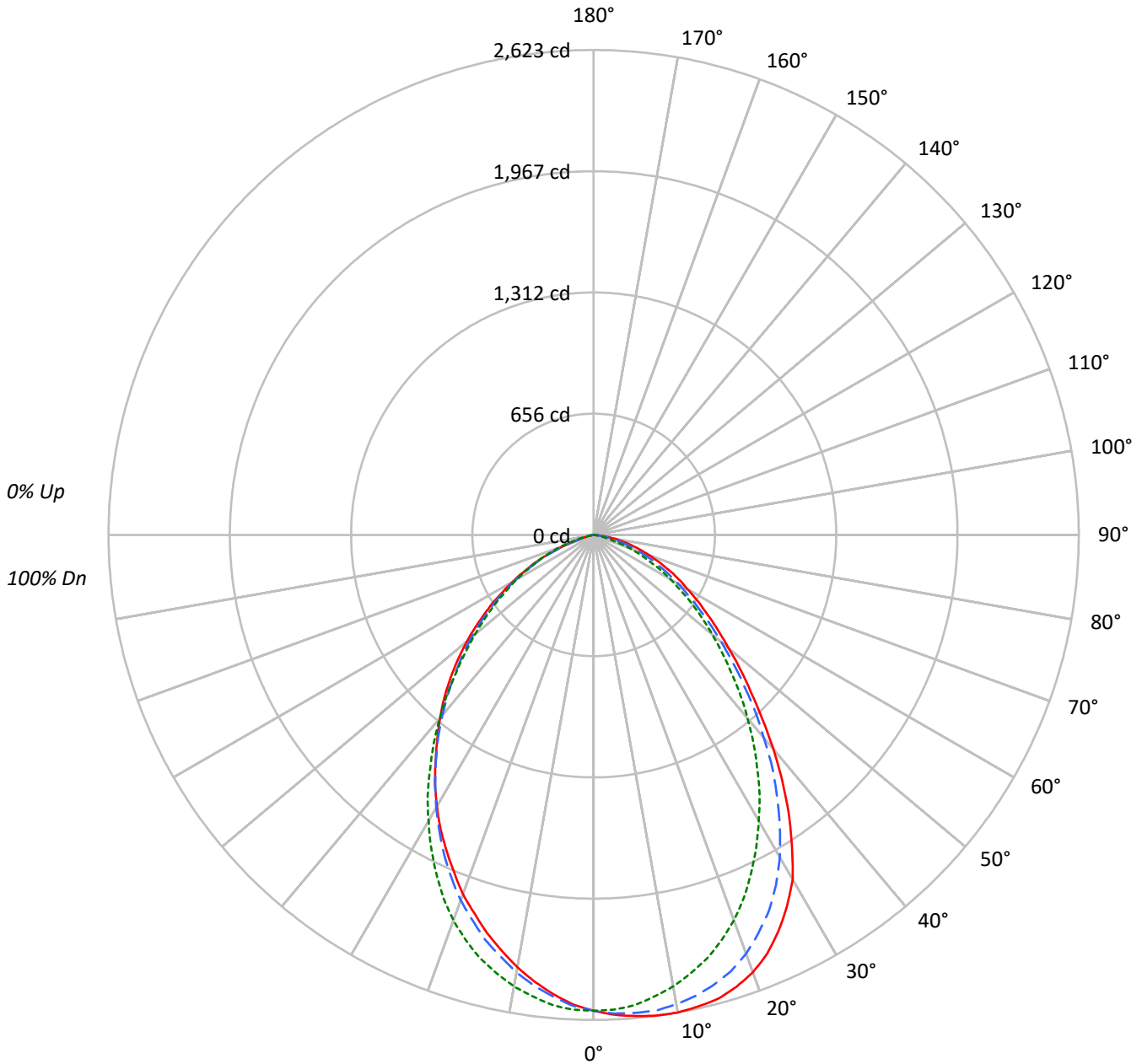
Lumens per Lamp: N/A
Luminaire Lumens: 4825.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P585008
CATALOG NUMBER: HCC8S55D010BZ-HM82555930-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P585008

CATALOG NUMBER: HCC8S55D010BZ-HM82555930-81RWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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°	79367	79367	79367
5°	80858	79023	77184
10°	82119	77641	74363
15°	82945	75708	71146
20°	82626	72784	67865
25°	80450	68582	64078
30°	76619	63583	60350
35°	69186	58029	56056
40°	60787	52085	51944
45°	52471	45781	47756
50°	45675	40153	42830
55°	40493	34875	37316
60°	36134	29467	30972
65°	32572	23918	24429
70°	28932	17924	14462
75°	24925	10389	6231
80°	19196	3729	1847
85°	12348	1238	1238



TEST NUMBER: P585008

CATALOG NUMBER: HCC8S55D010BZ-HM82555930-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.6	5.0
10°-20°	672.6	13.9
20°-30°	951.3	19.7
30°-40°	1002.4	20.8
40°-50°	851.9	17.7
50°-60°	613.5	12.7
60°-70°	353.9	7.3
70°-80°	121.1	2.5
80°-90°	16.6	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°	1865.5	38.7
0°-40°	2868.0	59.4
0°-60°	4333.4	89.8
0°-90°	4825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4825.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2574	2574	2574	2574	2574	
5°	2612	2595	2553	2508	2494	250
15°	2598	2518	2372	2267	2229	732
25°	2364	2242	2016	1911	1883	1084
35°	1838	1730	1542	1486	1489	1145
45°	1203	1147	1050	1057	1095	935
55°	753	694	649	673	694	678
65°	446	384	328	321	335	444
75°	209	157	87	56	52	221
85°	35	21	4	4	4	47
90°	0	0	0	0	0	



TEST NUMBER: P585008

CATALOG NUMBER: HCC8S55D010BZ-HM82555930-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8
2.5°	2598.2	2601.7	2598.2	2598.2	2594.7	2591.2	2587.8	2584.3	2577.2	2570.3	2570.3
5°	2612.2	2619.1	2612.2	2612.2	2601.7	2594.7	2587.8	2577.2	2563.3	2552.9	2552.9
7.5°	2622.6	2622.6	2622.6	2612.2	2605.1	2594.7	2577.2	2559.9	2542.4	2525.0	2517.9
10°	2622.6	2622.6	2619.1	2605.1	2598.2	2577.2	2559.9	2535.4	2511.0	2486.6	2479.6
12.5°	2612.2	2615.7	2608.6	2594.7	2577.2	2552.9	2528.5	2497.1	2469.2	2441.3	2427.3
15°	2598.2	2594.7	2587.8	2570.3	2549.3	2517.9	2493.5	2458.7	2420.3	2385.5	2371.5
17.5°	2563.3	2563.3	2552.9	2535.4	2507.5	2472.7	2434.2	2395.9	2354.1	2315.8	2298.3
20°	2517.9	2517.9	2504.0	2483.1	2455.2	2409.9	2368.0	2322.7	2273.8	2235.5	2218.0
22.5°	2451.7	2455.2	2437.8	2413.4	2382.0	2329.7	2287.7	2232.0	2183.2	2137.8	2123.9
25°	2364.5	2371.5	2354.1	2329.7	2287.7	2242.5	2190.1	2137.8	2082.1	2036.7	2015.7
27.5°	2263.4	2266.9	2249.4	2225.0	2183.2	2134.3	2082.1	2026.3	1973.9	1925.1	1904.1
30°	2151.8	2137.8	2130.8	2099.5	2054.2	2012.3	1953.0	1907.7	1851.9	1810.0	1785.7
32.5°	1994.9	2001.8	1980.9	1956.5	1921.6	1872.7	1824.0	1771.6	1719.3	1687.9	1670.6
35°	1837.9	1844.8	1834.4	1810.0	1771.6	1729.8	1681.0	1642.6	1597.3	1558.9	1541.5
37.5°	1674.0	1674.0	1667.1	1653.1	1625.2	1586.8	1538.0	1499.6	1461.2	1429.8	1419.4
40°	1510.1	1503.1	1499.6	1489.1	1464.8	1429.8	1398.4	1367.1	1328.7	1307.8	1293.9
42.5°	1349.7	1349.7	1342.6	1332.2	1307.8	1290.4	1259.0	1224.2	1196.3	1175.3	1175.3
45°	1203.2	1206.7	1196.3	1189.2	1175.3	1147.4	1119.5	1095.1	1070.6	1056.7	1049.8
47.5°	1074.1	1074.1	1063.7	1056.7	1042.7	1018.4	994.0	973.0	955.5	945.1	941.6
50°	952.1	952.1	952.1	934.7	917.2	899.7	882.3	857.9	847.5	840.4	837.0
52.5°	847.5	844.0	844.0	830.0	812.5	791.7	774.2	753.2	742.8	735.9	739.3
55°	753.2	753.2	749.8	732.4	714.9	694.1	676.6	659.1	652.2	645.2	648.7
56°	714.9	714.9	711.4	697.5	676.6	659.1	638.3	620.8	610.3	613.8	613.8
57°	687.0	680.1	680.1	662.6	645.2	620.8	603.3	585.9	579.0	575.5	575.5
58°	652.2	648.7	645.2	627.7	610.3	589.4	571.9	554.5	544.0	544.0	540.5
59°	617.3	617.3	610.3	596.3	579.0	558.0	540.5	523.2	512.6	509.2	509.2
60°	585.9	589.4	579.0	565.0	551.1	526.6	505.7	491.8	481.2	477.8	477.8
61°	558.0	558.0	551.1	533.6	516.1	498.7	477.8	460.4	453.3	446.4	446.4
62°	533.6	526.6	523.2	505.7	488.3	467.3	449.9	432.5	422.0	415.0	418.5
63°	502.2	498.7	491.8	477.8	460.4	439.4	418.5	404.6	394.1	383.6	387.1
64°	477.8	474.3	463.9	449.9	432.5	411.5	390.6	376.7	369.6	359.2	355.7
65°	446.4	442.9	439.4	422.0	404.6	383.6	366.1	352.2	341.8	334.8	327.8
66°	418.5	422.0	415.0	401.1	380.1	362.7	338.2	324.3	317.4	306.9	299.9
67°	394.1	394.1	387.1	373.2	352.2	334.8	317.4	299.9	289.5	279.1	275.5
67.5°	380.1	380.1	373.2	355.7	341.8	320.9	303.4	289.5	275.5	268.5	261.6
68°	366.1	366.1	362.7	348.8	331.3	310.3	293.0	275.5	261.6	251.0	247.6
69°	341.8	345.3	338.2	324.3	306.9	286.0	268.5	254.6	240.6	230.2	223.1
70°	320.9	317.4	310.3	296.4	279.1	265.1	247.6	230.2	216.2	202.3	198.8
71°	293.0	293.0	286.0	275.5	258.1	240.6	223.1	209.2	195.3	177.9	174.4
72°	272.0	272.0	265.1	251.0	237.1	219.8	202.3	184.8	174.4	156.9	150.0
72.5°	258.1	261.6	254.6	240.6	226.7	205.8	191.9	177.9	160.4	146.5	139.5
73°	251.0	247.6	244.1	230.2	212.7	198.8	181.3	167.4	150.0	136.1	129.0



TEST NUMBER: P585008
 CATALOG NUMBER: HCC8S55D010BZ-HM82555930-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	156.9	156.9	153.4	139.5	125.5	111.6	97.6	83.7	69.7	55.8	48.9
80°	108.1	111.6	104.7	97.6	87.2	73.2	59.3	48.9	34.9	27.9	21.0
82.5°	69.7	69.7	66.2	59.3	52.3	41.8	34.9	24.4	17.5	13.9	10.4
85°	34.9	38.3	34.9	31.4	24.4	21.0	17.5	10.4	7.0	3.5	3.5
87.5°	13.9	13.9	13.9	10.4	10.4	7.0	3.5	3.5	3.5	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



TEST NUMBER: P585008

CATALOG NUMBER: HCC8S55D010BZ-HM82555930-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8	2573.8
2.5°	2563.3	2563.3	2556.4	2552.9	2549.3	2545.9	2542.4	2538.9	2538.9	2542.4
5°	2542.4	2535.4	2521.4	2517.9	2507.5	2504.0	2497.1	2493.5	2497.1	2493.5
7.5°	2511.0	2497.1	2479.6	2472.7	2458.7	2451.7	2441.3	2441.3	2434.2	2437.8
10°	2469.2	2448.2	2427.3	2413.4	2402.8	2392.4	2385.5	2378.5	2374.9	2374.9
12.5°	2416.8	2392.4	2371.5	2350.6	2333.1	2326.2	2312.2	2312.2	2305.2	2301.8
15°	2357.6	2326.2	2301.8	2280.8	2266.9	2252.9	2242.5	2235.5	2228.6	2228.6
17.5°	2280.8	2252.9	2228.6	2204.1	2183.2	2172.8	2162.2	2151.8	2151.8	2144.8
20°	2197.1	2165.7	2144.8	2120.4	2102.9	2085.6	2071.6	2071.6	2064.6	2068.1
22.5°	2102.9	2064.6	2043.7	2026.3	2008.8	1994.9	1980.9	1980.9	1977.4	1973.9
25°	1998.4	1967.0	1942.6	1921.6	1911.2	1897.2	1893.7	1886.7	1883.3	1883.3
27.5°	1886.7	1862.3	1830.9	1820.5	1806.5	1799.6	1799.6	1796.1	1789.1	1792.6
30°	1768.2	1740.3	1722.8	1715.8	1701.9	1701.9	1698.5	1691.4	1691.4	1694.9
32.5°	1653.1	1625.2	1611.3	1607.7	1593.8	1593.8	1590.3	1593.8	1593.8	1597.3
35°	1527.6	1503.1	1499.6	1489.1	1485.6	1485.6	1485.6	1492.7	1499.6	1489.1
37.5°	1409.0	1391.5	1381.1	1377.6	1381.1	1381.1	1384.5	1395.0	1391.5	1388.0
40°	1286.9	1272.9	1266.0	1266.0	1272.9	1279.9	1279.9	1290.4	1293.9	1290.4
42.5°	1164.9	1154.4	1154.4	1157.8	1164.9	1168.4	1178.8	1189.2	1192.7	1196.3
45°	1049.8	1049.8	1049.8	1053.3	1056.7	1063.7	1077.7	1088.1	1091.6	1095.1
47.5°	938.2	934.7	945.1	948.6	959.0	962.6	973.0	986.9	990.5	994.0
50°	833.5	840.4	844.0	854.4	861.4	861.4	875.4	882.3	892.8	892.8
52.5°	735.9	746.3	749.8	760.3	763.8	767.3	774.2	784.7	791.7	791.7
55°	648.7	652.2	659.1	662.6	673.1	676.6	683.5	687.0	697.5	694.1
56°	610.3	617.3	620.8	627.7	634.8	638.3	645.2	648.7	655.6	659.1
57°	575.5	579.0	589.4	592.9	599.8	599.8	603.3	613.8	613.8	617.3
58°	540.5	547.6	551.1	554.5	561.5	565.0	571.9	575.5	579.0	575.5
59°	509.2	512.6	516.1	516.1	523.2	523.2	533.6	540.5	544.0	544.0
60°	477.8	477.8	481.2	484.7	491.8	495.2	495.2	502.2	502.2	502.2
61°	446.4	446.4	449.9	453.3	456.8	456.8	463.9	463.9	467.3	470.8
62°	418.5	415.0	415.0	418.5	418.5	425.4	429.0	432.5	436.0	432.5
63°	387.1	383.6	383.6	383.6	383.6	390.6	390.6	394.1	401.1	397.5
64°	352.2	352.2	352.2	352.2	355.7	355.7	362.7	366.1	369.6	373.2
65°	327.8	320.9	317.4	317.4	320.9	324.3	327.8	331.3	334.8	334.8
66°	299.9	293.0	289.5	289.5	289.5	289.5	296.4	296.4	303.4	303.4
67°	268.5	261.6	258.1	254.6	254.6	254.6	265.1	261.6	261.6	261.6
67.5°	258.1	247.6	244.1	240.6	237.1	244.1	240.6	244.1	244.1	240.6
68°	244.1	237.1	230.2	223.1	223.1	223.1	226.7	230.2	226.7	223.1
69°	216.2	212.7	202.3	195.3	191.9	195.3	191.9	195.3	191.9	195.3
70°	191.9	181.3	170.9	167.4	164.0	164.0	164.0	160.4	164.0	160.4
71°	167.4	156.9	146.5	139.5	136.1	136.1	132.6	136.1	132.6	136.1
72°	143.0	132.6	118.6	111.6	111.6	111.6	111.6	108.1	111.6	108.1
72.5°	132.6	118.6	108.1	101.1	97.6	97.6	97.6	97.6	94.1	97.6
73°	122.0	108.1	94.1	90.7	90.7	90.7	87.2	83.7	87.2	87.2



TEST NUMBER: P585008
CATALOG NUMBER: HCC8S55D010BZ-HM82555930-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	41.8	31.4	27.9	27.9	27.9	27.9	27.9	27.9	24.4	24.4
80°	17.5	13.9	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
82.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
85°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



74°	226.7	226.7	219.8	209.2	191.9	174.4	160.4	146.5	129.0	111.6	104.7
75°	209.2	205.8	198.8	188.3	174.4	156.9	143.0	125.5	111.6	94.1	87.2

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°	101.1	83.7	76.8	69.7	69.7	69.7	66.2	66.2	66.2	69.7
75°	80.2	66.2	59.3	52.3	55.8	52.3	55.8	52.3	52.3	52.3

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

Scaled Data Report



(END OF REPORT)