

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: P584872

Luminaire Tested: **HCC8S50D010SL-HM82555930-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584872
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: HCC8S50D010SL-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

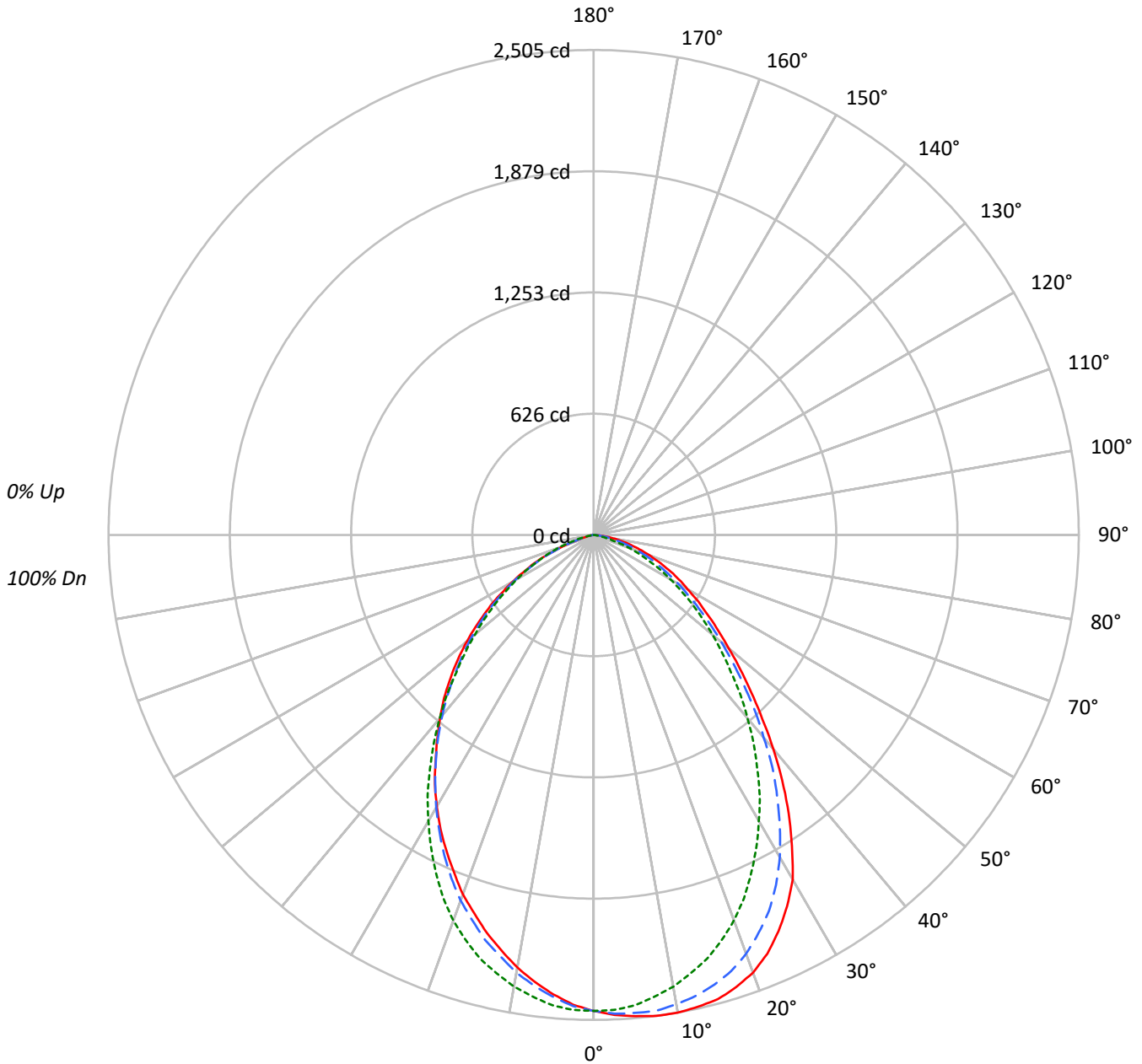
Lumens per Lamp: N/A
Luminaire Lumens: 4609.6 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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: P584872
CATALOG NUMBER: HCC8S50D010SL-HM82555930-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P584872

CATALOG NUMBER: HCC8S50D010SL-HM82555930-81RWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	75820	75820	75820
5°	77246	75491	73739
10°	78449	74175	71044
15°	79239	72324	67966
20°	78937	69532	64833
25°	76857	65520	61213
30°	73197	60738	57654
35°	66096	55435	53556
40°	58074	49758	49621
45°	50129	43736	45620
50°	43636	38359	40916
55°	38687	33316	35649
60°	34518	28154	29591
65°	31120	22853	23334
70°	27634	17130	13821
75°	23817	9925	5957
80°	18344	3552	1794
85°	11782	1203	1203



TEST NUMBER: P584872

CATALOG NUMBER: HCC8S50D010SL-HM82555930-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.8	5.0
10°-20°	642.6	13.9
20°-30°	908.8	19.7
30°-40°	957.7	20.8
40°-50°	813.9	17.7
50°-60°	586.1	12.7
60°-70°	338.1	7.3
70°-80°	115.7	2.5
80°-90°	15.9	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°	1782.2	38.7
0°-40°	2739.8	59.4
0°-60°	4139.8	89.8
0°-90°	4609.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4609.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2459	2459	2459	2459	2459	
5°	2496	2479	2439	2396	2382	239
15°	2482	2406	2266	2166	2129	699
25°	2259	2142	1926	1826	1799	1036
35°	1756	1652	1473	1419	1423	1093
45°	1150	1096	1003	1010	1046	893
55°	720	663	620	643	663	648
65°	426	366	313	306	320	424
75°	200	150	83	53	50	211
85°	33	20	3	3	3	45
90°	0	0	0	0	0	



TEST NUMBER: P584872

CATALOG NUMBER: HCC8S50D010SL-HM82555930-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8
2.5°	2482.1	2485.4	2482.1	2482.1	2478.7	2475.5	2472.1	2468.8	2462.1	2455.5	2455.5
5°	2495.5	2502.1	2495.5	2495.5	2485.4	2478.7	2472.1	2462.1	2448.8	2438.8	2438.8
7.5°	2505.4	2505.4	2505.4	2495.5	2488.8	2478.7	2462.1	2445.4	2428.8	2412.1	2405.5
10°	2505.4	2505.4	2502.1	2488.8	2482.1	2462.1	2445.4	2422.2	2398.8	2375.5	2368.9
12.5°	2495.5	2498.7	2492.1	2478.7	2462.1	2438.8	2415.5	2385.5	2358.8	2332.2	2318.8
15°	2482.1	2478.7	2472.1	2455.5	2435.5	2405.5	2382.2	2348.9	2312.2	2278.8	2265.5
17.5°	2448.8	2448.8	2438.8	2422.2	2395.5	2362.2	2325.5	2288.9	2248.9	2212.2	2195.6
20°	2405.5	2405.5	2392.1	2372.1	2345.5	2302.2	2262.2	2218.9	2172.2	2135.6	2118.9
22.5°	2342.2	2345.5	2328.9	2305.5	2275.6	2225.5	2185.6	2132.3	2085.6	2042.4	2029.0
25°	2258.9	2265.5	2248.9	2225.5	2185.6	2142.3	2092.3	2042.4	1989.1	1945.7	1925.7
27.5°	2162.3	2165.6	2149.0	2125.6	2085.6	2039.0	1989.1	1935.7	1885.7	1839.1	1819.1
30°	2055.7	2042.4	2035.7	2005.7	1962.4	1922.4	1865.7	1822.5	1769.2	1729.2	1705.8
32.5°	1905.7	1912.4	1892.4	1869.1	1835.8	1789.2	1742.5	1692.5	1642.6	1612.5	1595.9
35°	1755.8	1762.5	1752.4	1729.2	1692.5	1652.5	1605.9	1569.3	1525.9	1489.3	1472.6
37.5°	1599.2	1599.2	1592.5	1579.2	1552.5	1516.0	1469.3	1432.6	1396.0	1366.0	1356.0
40°	1442.7	1436.0	1432.6	1422.7	1399.3	1366.0	1336.1	1306.0	1269.4	1249.4	1236.1
42.5°	1289.4	1289.4	1282.7	1272.7	1249.4	1232.7	1202.8	1169.5	1142.8	1122.8	1122.8
45°	1149.5	1152.8	1142.8	1136.2	1122.8	1096.2	1069.5	1046.1	1022.9	1009.5	1002.9
47.5°	1026.1	1026.1	1016.2	1009.5	996.2	972.8	949.6	929.6	912.9	902.9	899.5
50°	909.6	909.6	909.6	892.9	876.3	859.6	843.0	819.6	809.6	803.0	799.6
52.5°	809.6	806.3	806.3	792.9	776.3	756.3	739.6	719.6	709.7	703.0	706.3
55°	719.6	719.6	716.4	699.6	683.0	663.1	646.3	629.7	623.1	616.4	619.7
56°	683.0	683.0	679.7	666.3	646.3	629.7	609.8	593.0	583.1	586.4	586.4
57°	656.4	649.7	649.7	633.0	616.4	593.0	576.4	559.7	553.1	549.8	549.8
58°	623.1	619.7	616.4	599.7	583.1	563.1	546.4	529.8	519.7	519.7	516.5
59°	589.8	589.8	583.1	569.8	553.1	533.1	516.5	499.7	489.8	486.4	486.4
60°	559.7	563.1	553.1	539.7	526.4	503.1	483.1	469.8	459.8	456.5	456.5
61°	533.1	533.1	526.4	509.8	493.1	476.5	456.5	439.8	433.1	426.5	426.5
62°	509.8	503.1	499.7	483.1	466.4	446.4	429.8	413.1	403.2	396.5	399.8
63°	479.8	476.5	469.8	456.5	439.8	419.8	399.8	386.5	376.5	366.5	369.9
64°	456.5	453.1	443.2	429.8	413.1	393.1	373.1	359.8	353.2	343.2	339.8
65°	426.5	423.2	419.8	403.2	386.5	366.5	349.9	336.6	326.5	319.8	313.2
66°	399.8	403.2	396.5	383.2	363.2	346.5	323.2	309.9	303.2	293.2	286.5
67°	376.5	376.5	369.9	356.5	336.6	319.8	303.2	286.5	276.6	266.5	263.3
67.5°	363.2	363.2	356.5	339.8	326.5	306.5	289.9	276.6	263.3	256.6	249.9
68°	349.9	349.9	346.5	333.2	316.6	296.6	279.9	263.3	249.9	239.9	236.6
69°	326.5	329.9	323.2	309.9	293.2	273.2	256.6	243.3	229.9	219.9	213.2
70°	306.5	303.2	296.6	283.2	266.5	253.2	236.6	219.9	206.6	193.2	190.0
71°	279.9	279.9	273.2	263.3	246.5	229.9	213.2	199.9	186.6	170.0	166.6
72°	259.9	259.9	253.2	239.9	226.6	210.0	193.2	176.6	166.6	150.0	143.3
72.5°	246.5	249.9	243.3	229.9	216.6	196.6	183.3	170.0	153.3	139.9	133.3
73°	239.9	236.6	233.2	219.9	203.3	190.0	173.2	159.9	143.3	130.0	123.3



TEST NUMBER: P584872
 CATALOG NUMBER: HCC8S50D010SL-HM82555930-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	150.0	150.0	146.6	133.3	119.9	106.6	93.3	80.0	66.6	53.3	46.6
80°	103.3	106.6	99.9	93.3	83.3	70.0	56.7	46.6	33.3	26.7	20.0
82.5°	66.6	66.6	63.4	56.7	50.0	40.0	33.3	23.4	16.7	13.3	10.1
85°	33.3	36.7	33.3	30.0	23.4	20.0	16.7	10.1	6.7	3.4	3.4
87.5°	13.3	13.3	13.3	10.1	10.1	6.7	3.4	3.4	3.4	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: P584872

CATALOG NUMBER: HCC8S50D010SL-HM82555930-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8
2.5°	2448.8	2448.8	2442.2	2438.8	2435.5	2432.1	2428.8	2425.4	2425.4	2428.8
5°	2428.8	2422.2	2408.8	2405.5	2395.5	2392.1	2385.5	2382.2	2385.5	2382.2
7.5°	2398.8	2385.5	2368.9	2362.2	2348.9	2342.2	2332.2	2332.2	2325.5	2328.9
10°	2358.8	2338.8	2318.8	2305.5	2295.6	2285.5	2278.8	2272.2	2268.9	2268.9
12.5°	2308.9	2285.5	2265.5	2245.5	2228.9	2222.3	2208.9	2208.9	2202.3	2198.9
15°	2252.2	2222.3	2198.9	2178.9	2165.6	2152.2	2142.3	2135.6	2129.0	2129.0
17.5°	2178.9	2152.2	2129.0	2105.6	2085.6	2075.7	2065.6	2055.7	2055.7	2049.0
20°	2098.9	2069.0	2049.0	2025.6	2009.0	1992.3	1979.0	1979.0	1972.3	1975.7
22.5°	2009.0	1972.3	1952.3	1935.7	1919.0	1905.7	1892.4	1892.4	1889.1	1885.7
25°	1909.1	1879.1	1855.8	1835.8	1825.7	1812.4	1809.1	1802.5	1799.1	1799.1
27.5°	1802.5	1779.1	1749.2	1739.1	1725.8	1719.1	1719.1	1715.9	1709.2	1712.5
30°	1689.2	1662.6	1645.8	1639.2	1625.8	1625.8	1622.6	1615.9	1615.9	1619.2
32.5°	1579.2	1552.5	1539.2	1535.9	1522.6	1522.6	1519.2	1522.6	1522.6	1525.9
35°	1459.3	1436.0	1432.6	1422.7	1419.3	1419.3	1419.3	1425.9	1432.6	1422.7
37.5°	1346.0	1329.4	1319.3	1316.1	1319.3	1319.3	1322.7	1332.7	1329.4	1326.0
40°	1229.4	1216.1	1209.4	1209.4	1216.1	1222.8	1222.8	1232.7	1236.1	1232.7
42.5°	1112.8	1102.8	1102.8	1106.1	1112.8	1116.2	1126.1	1136.2	1139.4	1142.8
45°	1002.9	1002.9	1002.9	1006.2	1009.5	1016.2	1029.5	1039.5	1042.9	1046.1
47.5°	896.3	892.9	902.9	906.2	916.3	919.5	929.6	942.9	946.2	949.6
50°	796.3	803.0	806.3	816.3	823.0	823.0	836.3	843.0	852.9	852.9
52.5°	703.0	713.0	716.4	726.3	729.7	733.0	739.6	749.7	756.3	756.3
55°	619.7	623.1	629.7	633.0	643.1	646.3	653.0	656.4	666.3	663.1
56°	583.1	589.8	593.0	599.7	606.4	609.8	616.4	619.7	626.4	629.7
57°	549.8	553.1	563.1	566.4	573.0	573.0	576.4	586.4	586.4	589.8
58°	516.5	523.1	526.4	529.8	536.5	539.7	546.4	549.8	553.1	549.8
59°	486.4	489.8	493.1	493.1	499.7	499.7	509.8	516.5	519.7	519.7
60°	456.5	456.5	459.8	463.2	469.8	473.1	473.1	479.8	479.8	479.8
61°	426.5	426.5	429.8	433.1	436.5	436.5	443.2	443.2	446.4	449.8
62°	399.8	396.5	396.5	399.8	399.8	406.5	409.9	413.1	416.5	413.1
63°	369.9	366.5	366.5	366.5	366.5	373.1	373.1	376.5	383.2	379.8
64°	336.6	336.6	336.6	336.6	339.8	339.8	346.5	349.9	353.2	356.5
65°	313.2	306.5	303.2	303.2	306.5	309.9	313.2	316.6	319.8	319.8
66°	286.5	279.9	276.6	276.6	276.6	276.6	283.2	283.2	289.9	289.9
67°	256.6	249.9	246.5	243.3	243.3	243.3	253.2	249.9	249.9	249.9
67.5°	246.5	236.6	233.2	229.9	226.6	233.2	229.9	233.2	233.2	229.9
68°	233.2	226.6	219.9	213.2	213.2	213.2	216.6	219.9	216.6	213.2
69°	206.6	203.3	193.2	186.6	183.3	186.6	183.3	186.6	183.3	186.6
70°	183.3	173.2	163.3	159.9	156.6	156.6	156.6	153.3	156.6	153.3
71°	159.9	150.0	139.9	133.3	130.0	130.0	126.6	130.0	126.6	130.0
72°	136.7	126.6	113.3	106.6	106.6	106.6	106.6	103.3	106.6	103.3
72.5°	126.6	113.3	103.3	96.7	93.3	93.3	93.3	93.3	90.0	93.3
73°	116.7	103.3	90.0	86.6	86.6	86.6	83.3	80.0	83.3	83.3



TEST NUMBER: P584872
CATALOG NUMBER: HCC8S50D010SL-HM82555930-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	40.0	30.0	26.7	26.7	26.7	26.7	26.7	26.7	23.4	23.4
80°	16.7	13.3	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
82.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
85°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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°	216.6	216.6	210.0	199.9	183.3	166.6	153.3	139.9	123.3	106.6	99.9
75°	199.9	196.6	190.0	179.9	166.6	150.0	136.7	119.9	106.6	90.0	83.3

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°	96.7	80.0	73.3	66.6	66.6	66.6	63.4	63.4	63.4	66.6
75°	76.7	63.4	56.7	50.0	53.3	50.0	53.3	50.0	50.0	50.0

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

Scaled Data Report



(END OF REPORT)