

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: P585263

Luminaire Tested: **HCC8S80D010MW-HM86080927-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585263
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: HCC8S80D010MW-HM86080927-81RWWH
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

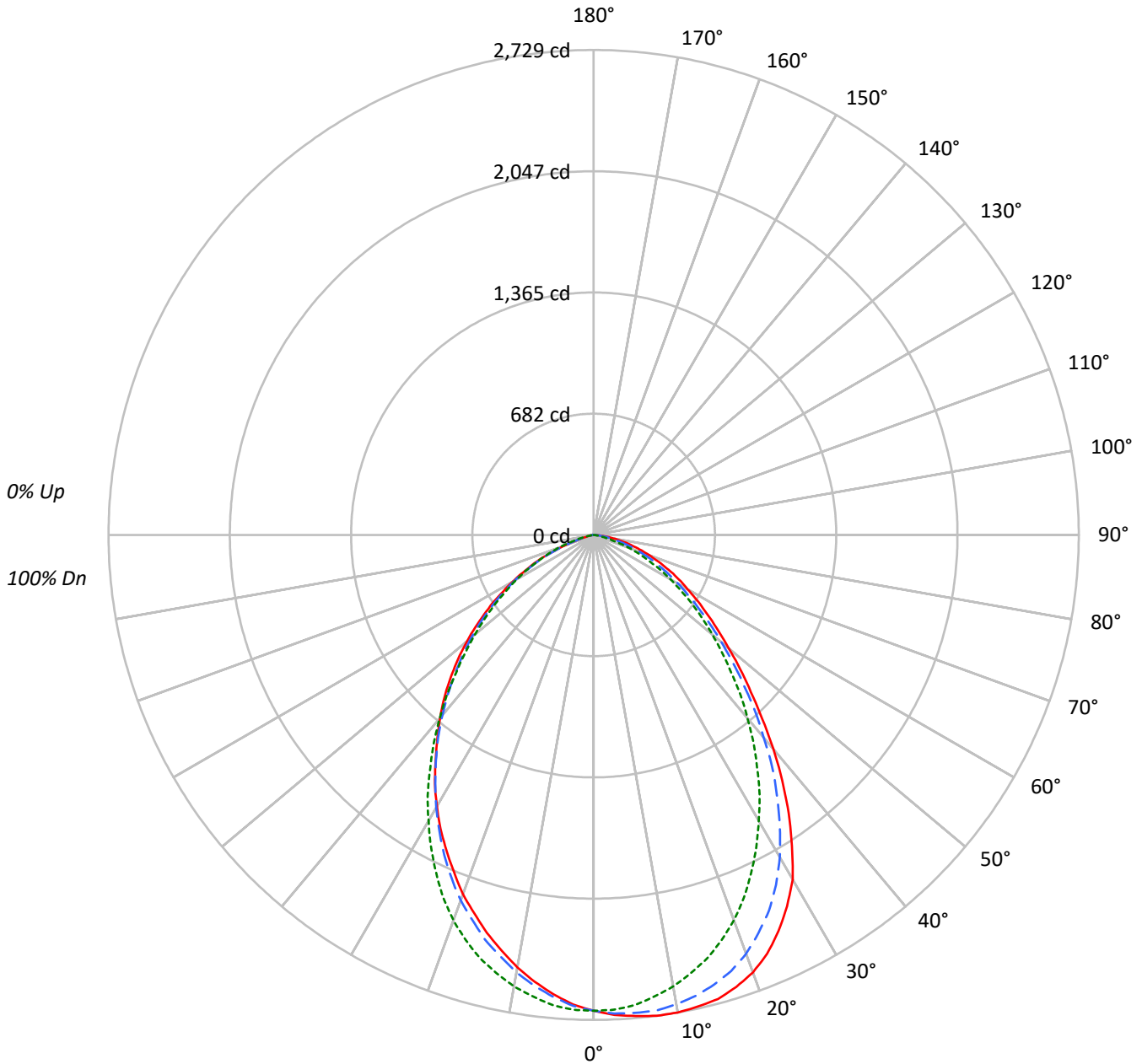
Lumens per Lamp: N/A
Luminaire Lumens: 5020.2 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 70
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: P585263
CATALOG NUMBER: HCC8S80D010MW-HM86080927-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P585263

CATALOG NUMBER: HCC8S80D010MW-HM86080927-81RWWH

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°	82577	82577	82577
5°	84127	82217	80307
10°	85444	80782	77375
15°	86300	78770	74022
20°	85970	75731	70609
25°	83706	71359	66670
30°	79720	66150	62792
35°	71987	60374	58326
40°	63243	54190	54045
45°	54594	47630	49688
50°	47522	41775	44567
55°	42138	36284	38821
60°	37596	30657	32230
65°	33885	24888	25421
70°	30104	18654	15048
75°	25937	10806	6493
80°	19978	3871	1936
85°	12843	1309	1309



TEST NUMBER: P585263
 CATALOG NUMBER: HCC8S80D010MW-HM86080927-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.4	5.0
10°-20°	699.8	13.9
20°-30°	989.8	19.7
30°-40°	1043.0	20.8
40°-50°	886.4	17.7
50°-60°	638.3	12.7
60°-70°	368.2	7.3
70°-80°	126.0	2.5
80°-90°	17.3	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°	1941.0	38.7
0°-40°	2984.0	59.4
0°-60°	4508.7	89.8
0°-90°	5020.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5020.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2678	2678	2678	2678	2678	
5°	2718	2700	2656	2609	2594	260
15°	2703	2620	2467	2359	2319	761
25°	2460	2333	2097	1988	1960	1128
35°	1912	1800	1604	1546	1549	1191
45°	1252	1194	1092	1100	1139	973
55°	784	722	675	700	722	705
65°	464	399	341	334	348	462
75°	218	163	91	58	54	230
85°	36	22	4	4	4	49
90°	0	0	0	0	0	



TEST NUMBER: P585263

CATALOG NUMBER: HCC8S80D010MW-HM86080927-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2677.9	2677.9	2677.9	2677.9	2677.9	2677.9	2677.9	2677.9	2677.9	2677.9	2677.9
2.5°	2703.3	2707.0	2703.3	2703.3	2699.6	2696.1	2692.4	2688.8	2681.6	2674.3	2674.3
5°	2717.8	2725.1	2717.8	2717.8	2707.0	2699.6	2692.4	2681.6	2667.0	2656.1	2656.1
7.5°	2728.8	2728.8	2728.8	2717.8	2710.6	2699.6	2681.6	2663.4	2645.3	2627.1	2619.8
10°	2728.8	2728.8	2725.1	2710.6	2703.3	2681.6	2663.4	2638.0	2612.6	2587.1	2579.9
12.5°	2717.8	2721.5	2714.2	2699.6	2681.6	2656.1	2630.8	2598.1	2569.1	2540.1	2525.6
15°	2703.3	2699.6	2692.4	2674.3	2652.5	2619.8	2594.4	2558.1	2518.3	2481.9	2467.4
17.5°	2667.0	2667.0	2656.1	2638.0	2609.0	2572.6	2532.8	2492.9	2449.3	2409.4	2391.2
20°	2619.8	2619.8	2605.3	2583.6	2554.6	2507.4	2463.8	2416.6	2365.9	2325.9	2307.8
22.5°	2550.9	2554.6	2536.4	2511.0	2478.4	2423.9	2380.4	2322.4	2271.5	2224.4	2209.9
25°	2460.2	2467.4	2449.3	2423.9	2380.4	2333.2	2278.7	2224.4	2166.2	2119.2	2097.3
27.5°	2354.9	2358.6	2340.4	2315.1	2271.5	2220.7	2166.2	2108.2	2053.8	2003.0	1981.2
30°	2238.9	2224.4	2217.1	2184.4	2137.2	2093.7	2032.0	1984.8	1926.8	1883.3	1857.8
32.5°	2075.5	2082.8	2061.0	2035.7	1999.3	1948.5	1897.8	1843.3	1788.9	1756.3	1738.1
35°	1912.3	1919.5	1908.7	1883.3	1843.3	1799.8	1749.0	1709.1	1661.9	1622.0	1603.8
37.5°	1741.8	1741.8	1734.5	1720.0	1690.9	1651.0	1600.2	1560.3	1520.4	1487.7	1476.9
40°	1571.1	1563.9	1560.3	1549.4	1524.1	1487.7	1455.1	1422.4	1382.5	1360.7	1346.2
42.5°	1404.3	1404.3	1397.0	1386.1	1360.7	1342.6	1309.9	1273.7	1244.6	1222.9	1222.9
45°	1251.9	1255.5	1244.6	1237.4	1222.9	1193.8	1164.7	1139.4	1114.0	1099.5	1092.2
47.5°	1117.7	1117.7	1106.7	1099.5	1085.0	1059.5	1034.2	1012.4	994.2	983.3	979.7
50°	990.6	990.6	990.6	972.5	954.3	936.2	918.0	892.6	881.8	874.5	870.8
52.5°	881.8	878.1	878.1	863.6	845.5	823.7	805.5	783.8	772.8	765.6	769.3
55°	783.8	783.8	780.1	762.0	743.8	722.1	704.0	685.8	678.6	671.3	674.9
56°	743.8	743.8	740.3	725.8	704.0	685.8	664.1	645.9	635.0	638.6	638.6
57°	714.8	707.6	707.6	689.4	671.3	645.9	627.8	609.6	602.3	598.7	598.7
58°	678.6	674.9	671.3	653.1	635.0	613.3	595.1	576.9	566.1	566.1	562.4
59°	642.3	642.3	635.0	620.5	602.3	580.6	562.4	544.3	533.4	529.8	529.8
60°	609.6	613.3	602.3	587.8	573.3	547.9	526.1	511.6	500.8	497.1	497.1
61°	580.6	580.6	573.3	555.1	537.1	518.9	497.1	478.9	471.7	464.4	464.4
62°	555.1	547.9	544.3	526.1	508.1	486.2	468.1	449.9	439.1	431.8	435.4
63°	522.6	518.9	511.6	497.1	478.9	457.2	435.4	420.9	410.1	399.1	402.8
64°	497.1	493.4	482.6	468.1	449.9	428.2	406.4	391.9	384.6	373.7	370.1
65°	464.4	460.9	457.2	439.1	420.9	399.1	381.0	366.4	355.6	348.4	341.1
66°	435.4	439.1	431.8	417.3	395.5	377.4	351.9	337.4	330.2	319.4	312.1
67°	410.1	410.1	402.8	388.2	366.4	348.4	330.2	312.1	301.2	290.2	286.7
67.5°	395.5	395.5	388.2	370.1	355.6	333.9	315.7	301.2	286.7	279.4	272.2
68°	381.0	381.0	377.4	362.9	344.7	322.9	304.9	286.7	272.2	261.2	257.7
69°	355.6	359.2	351.9	337.4	319.4	297.5	279.4	264.9	250.4	239.5	232.2
70°	333.9	330.2	322.9	308.4	290.2	275.7	257.7	239.5	225.0	210.5	206.9
71°	304.9	304.9	297.5	286.7	268.5	250.4	232.2	217.7	203.2	185.0	181.4
72°	283.0	283.0	275.7	261.2	246.7	228.6	210.5	192.3	181.4	163.2	156.0
72.5°	268.5	272.2	264.9	250.4	235.9	214.1	199.5	185.0	166.9	152.4	145.2
73°	261.2	257.7	254.0	239.5	221.4	206.9	188.7	174.2	156.0	141.5	134.2



TEST NUMBER: P585263
 CATALOG NUMBER: HCC8S80D010MW-HM86080927-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	163.2	163.2	159.7	145.2	130.7	116.2	101.7	87.0	72.5	58.0	50.8
80°	112.5	116.2	108.9	101.7	90.7	76.2	61.7	50.8	36.3	29.0	21.8
82.5°	72.5	72.5	69.0	61.7	54.5	43.5	36.3	25.4	18.2	14.5	10.9
85°	36.3	40.0	36.3	32.7	25.4	21.8	18.2	10.9	7.3	3.7	3.7
87.5°	14.5	14.5	14.5	10.9	10.9	7.3	3.7	3.7	3.7	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: P585263

CATALOG NUMBER: HCC8S80D010MW-HM86080927-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2677.9	2677.9	2677.9	2677.9	2677.9	2677.9	2677.9	2677.9	2677.9	2677.9
2.5°	2667.0	2667.0	2659.8	2656.1	2652.5	2648.9	2645.3	2641.6	2641.6	2645.3
5°	2645.3	2638.0	2623.5	2619.8	2609.0	2605.3	2598.1	2594.4	2598.1	2594.4
7.5°	2612.6	2598.1	2579.9	2572.6	2558.1	2550.9	2540.1	2540.1	2532.8	2536.4
10°	2569.1	2547.3	2525.6	2511.0	2500.1	2489.2	2481.9	2474.7	2471.1	2471.1
12.5°	2514.6	2489.2	2467.4	2445.7	2427.6	2420.3	2405.8	2405.8	2398.5	2394.9
15°	2452.9	2420.3	2394.9	2373.1	2358.6	2344.1	2333.2	2325.9	2318.7	2318.7
17.5°	2373.1	2344.1	2318.7	2293.2	2271.5	2260.6	2249.7	2238.9	2238.9	2231.6
20°	2286.0	2253.4	2231.6	2206.2	2188.0	2169.9	2155.4	2155.4	2148.2	2151.7
22.5°	2188.0	2148.2	2126.4	2108.2	2090.0	2075.5	2061.0	2061.0	2057.4	2053.8
25°	2079.2	2046.5	2021.2	1999.3	1988.5	1974.0	1970.3	1963.0	1959.5	1959.5
27.5°	1963.0	1937.7	1905.0	1894.1	1879.6	1872.3	1872.3	1868.8	1861.5	1865.1
30°	1839.7	1810.7	1792.5	1785.3	1770.8	1770.8	1767.1	1759.8	1759.8	1763.5
32.5°	1720.0	1690.9	1676.4	1672.8	1658.3	1658.3	1654.6	1658.3	1658.3	1661.9
35°	1589.3	1563.9	1560.3	1549.4	1545.8	1545.8	1545.8	1553.1	1560.3	1549.4
37.5°	1465.9	1447.8	1436.9	1433.3	1436.9	1436.9	1440.6	1451.4	1447.8	1444.2
40°	1338.9	1324.4	1317.2	1317.2	1324.4	1331.7	1331.7	1342.6	1346.2	1342.6
42.5°	1211.9	1201.1	1201.1	1204.7	1211.9	1215.6	1226.5	1237.4	1241.0	1244.6
45°	1092.2	1092.2	1092.2	1095.8	1099.5	1106.7	1121.2	1132.2	1135.7	1139.4
47.5°	976.1	972.5	983.3	987.0	997.8	1001.5	1012.4	1026.9	1030.5	1034.2
50°	867.3	874.5	878.1	889.0	896.3	896.3	910.8	918.0	929.0	929.0
52.5°	765.6	776.5	780.1	791.0	794.6	798.3	805.5	816.5	823.7	823.7
55°	674.9	678.6	685.8	689.4	700.3	704.0	711.3	714.8	725.8	722.1
56°	635.0	642.3	645.9	653.1	660.4	664.1	671.3	674.9	682.1	685.8
57°	598.7	602.3	613.3	616.9	624.1	624.1	627.8	638.6	638.6	642.3
58°	562.4	569.6	573.3	576.9	584.2	587.8	595.1	598.7	602.3	598.7
59°	529.8	533.4	537.1	537.1	544.3	544.3	555.1	562.4	566.1	566.1
60°	497.1	497.1	500.8	504.4	511.6	515.3	515.3	522.6	522.6	522.6
61°	464.4	464.4	468.1	471.7	475.4	475.4	482.6	482.6	486.2	489.9
62°	435.4	431.8	431.8	435.4	435.4	442.7	446.4	449.9	453.6	449.9
63°	402.8	399.1	399.1	399.1	399.1	406.4	406.4	410.1	417.3	413.7
64°	366.4	366.4	366.4	366.4	370.1	370.1	377.4	381.0	384.6	388.2
65°	341.1	333.9	330.2	330.2	333.9	337.4	341.1	344.7	348.4	348.4
66°	312.1	304.9	301.2	301.2	301.2	301.2	308.4	308.4	315.7	315.7
67°	279.4	272.2	268.5	264.9	264.9	264.9	275.7	272.2	272.2	272.2
67.5°	268.5	257.7	254.0	250.4	246.7	254.0	250.4	254.0	254.0	250.4
68°	254.0	246.7	239.5	232.2	232.2	232.2	235.9	239.5	235.9	232.2
69°	225.0	221.4	210.5	203.2	199.5	203.2	199.5	203.2	199.5	203.2
70°	199.5	188.7	177.8	174.2	170.5	170.5	170.5	166.9	170.5	166.9
71°	174.2	163.2	152.4	145.2	141.5	141.5	137.9	141.5	137.9	141.5
72°	148.7	137.9	123.4	116.2	116.2	116.2	116.2	112.5	116.2	112.5
72.5°	137.9	123.4	112.5	105.2	101.7	101.7	101.7	101.7	98.0	101.7
73°	127.0	112.5	98.0	94.3	94.3	94.3	90.7	87.0	90.7	90.7



TEST NUMBER: P585263
 CATALOG NUMBER: HCC8S80D010MW-HM86080927-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	43.5	32.7	29.0	29.0	29.0	29.0	29.0	29.0	25.4	25.4
80°	18.2	14.5	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
82.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
85°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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





74°	235.9	235.9	228.6	217.7	199.5	181.4	166.9	152.4	134.2	116.2	108.9
75°	217.7	214.1	206.9	195.9	181.4	163.2	148.7	130.7	116.2	98.0	90.7

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°	105.2	87.0	79.8	72.5	72.5	72.5	69.0	69.0	69.0	72.5
75°	83.5	69.0	61.7	54.5	58.0	54.5	58.0	54.5	54.5	54.5

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

Scaled Data Report



(END OF REPORT)