

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: P585161

Luminaire Tested: **HCC8W60D010MB-HM86080935-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585161
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: HCC8W60D010MB-HM86080935-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

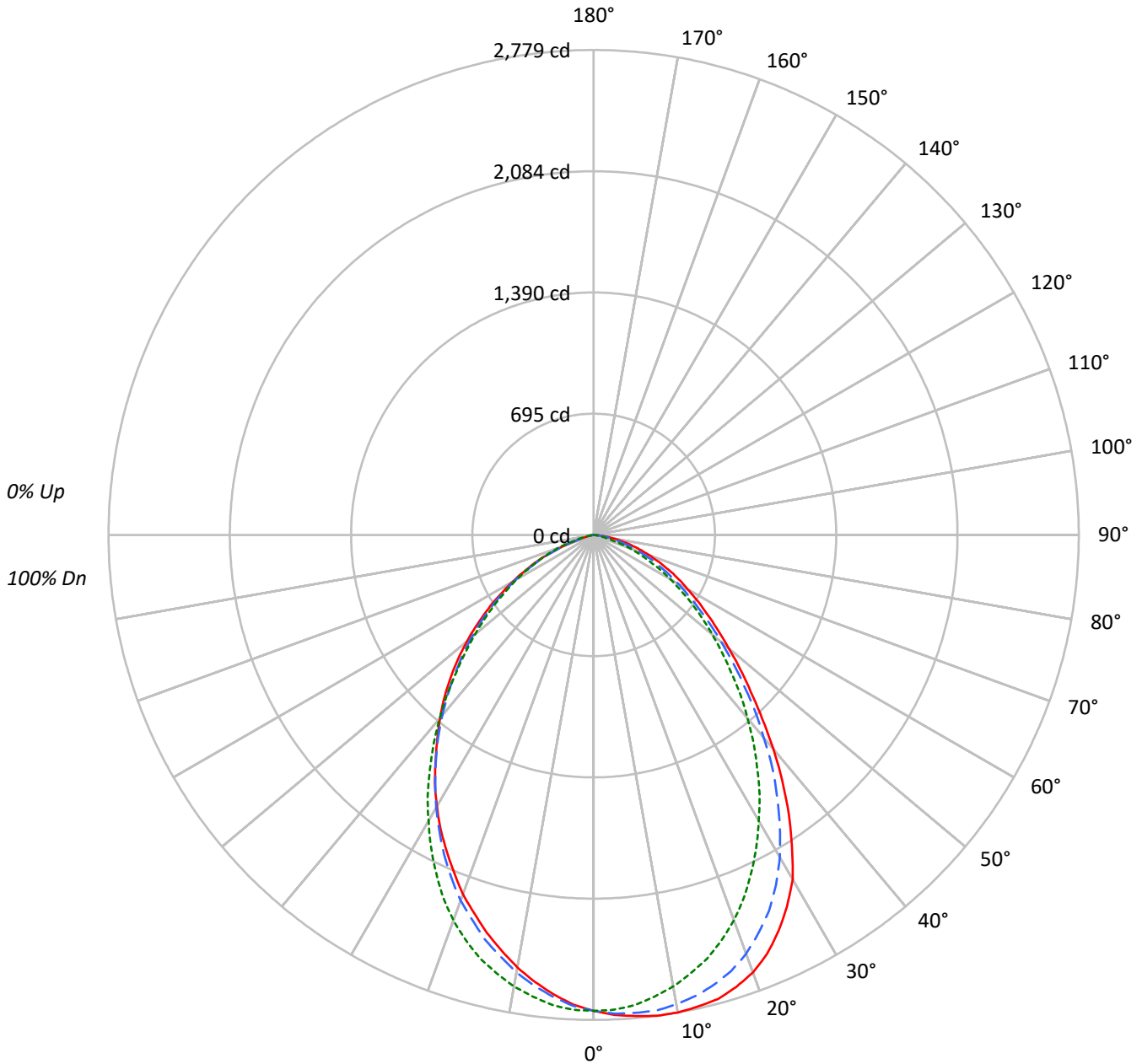
Lumens per Lamp: N/A
Luminaire Lumens: 5112.4 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 56
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: P585161
CATALOG NUMBER: HCC8W60D010MB-HM86080935-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P585161

CATALOG NUMBER: HCC8W60D010MB-HM86080935-81RWWH

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°	84094	84094	84094
5°	85672	83725	81784
10°	87010	82266	78797
15°	87884	80219	75379
20°	87548	77123	71905
25°	85241	72672	67892
30°	81180	67364	63943
35°	73308	61484	59399
40°	64406	55184	55035
45°	55597	48502	50600
50°	48395	42542	45382
55°	42912	36950	39531
60°	38286	31219	32816
65°	34512	25348	25888
70°	30645	18988	15327
75°	26414	11009	6612
80°	20333	3925	1971
85°	13055	1309	1309



TEST NUMBER: P585161
 CATALOG NUMBER: HCC8W60D010MB-HM86080935-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.0	5.0
10°-20°	712.7	13.9
20°-30°	1008.0	19.7
30°-40°	1062.1	20.8
40°-50°	902.7	17.7
50°-60°	650.0	12.7
60°-70°	375.0	7.3
70°-80°	128.3	2.5
80°-90°	17.6	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°	1976.6	38.7
0°-40°	3038.8	59.4
0°-60°	4591.5	89.8
0°-90°	5112.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5112.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2727	2727	2727	2727	2727	
5°	2768	2749	2705	2657	2642	265
15°	2753	2668	2513	2402	2361	775
25°	2505	2376	2136	2025	1995	1149
35°	1947	1833	1633	1574	1578	1213
45°	1275	1216	1112	1120	1160	990
55°	798	735	687	713	735	718
65°	473	406	347	340	355	471
75°	222	166	92	59	56	234
85°	37	22	4	4	4	50
90°	0	0	0	0	0	



TEST NUMBER: P585161

CATALOG NUMBER: HCC8W60D010MB-HM86080935-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1
2.5°	2752.9	2756.6	2752.9	2752.9	2749.2	2745.6	2741.9	2738.2	2730.8	2723.4	2723.4
5°	2767.7	2775.1	2767.7	2767.7	2756.6	2749.2	2741.9	2730.8	2716.0	2704.8	2704.8
7.5°	2778.8	2778.8	2778.8	2767.7	2760.3	2749.2	2730.8	2712.3	2693.8	2675.3	2667.9
10°	2778.8	2778.8	2775.1	2760.3	2752.9	2730.8	2712.3	2686.4	2660.5	2634.7	2627.3
12.5°	2767.7	2771.4	2764.0	2749.2	2730.8	2704.8	2679.0	2645.8	2616.3	2586.6	2571.9
15°	2752.9	2749.2	2741.9	2723.4	2701.1	2667.9	2642.1	2605.1	2564.5	2527.6	2512.8
17.5°	2716.0	2716.0	2704.8	2686.4	2656.9	2619.9	2579.2	2538.6	2494.2	2453.6	2435.2
20°	2667.9	2667.9	2653.2	2631.0	2601.4	2553.4	2509.0	2461.0	2409.2	2368.6	2350.2
22.5°	2597.7	2601.4	2582.9	2557.1	2523.9	2468.4	2424.1	2364.9	2313.1	2265.2	2250.4
25°	2505.3	2512.8	2494.2	2468.4	2424.1	2376.0	2320.6	2265.2	2206.0	2158.0	2135.9
27.5°	2398.1	2401.8	2383.4	2357.5	2313.1	2261.5	2206.0	2146.9	2091.5	2039.8	2017.5
30°	2279.9	2265.2	2257.8	2224.6	2176.5	2132.2	2069.3	2021.3	1962.2	1917.8	1891.9
32.5°	2113.6	2121.1	2098.8	2073.0	2036.1	1984.3	1932.6	1877.2	1821.8	1788.5	1770.0
35°	1947.4	1954.8	1943.7	1917.8	1877.2	1832.9	1781.1	1740.5	1692.4	1651.8	1633.3
37.5°	1773.7	1773.7	1766.3	1751.6	1721.9	1681.3	1629.6	1588.9	1548.3	1515.0	1503.9
40°	1600.0	1592.6	1588.9	1577.9	1552.0	1515.0	1481.8	1448.6	1407.8	1385.7	1370.9
42.5°	1430.1	1430.1	1422.6	1411.5	1385.7	1367.2	1334.0	1297.0	1267.5	1245.3	1245.3
45°	1274.9	1278.5	1267.5	1260.1	1245.3	1215.7	1186.2	1160.3	1134.5	1119.6	1112.2
47.5°	1138.2	1138.2	1127.0	1119.6	1104.8	1079.0	1053.2	1030.9	1012.5	1001.4	997.7
50°	1008.8	1008.8	1008.8	990.3	971.9	953.4	934.8	909.0	897.9	890.5	886.8
52.5°	897.9	894.2	894.2	879.5	861.0	838.9	820.3	798.2	787.1	779.7	783.4
55°	798.2	798.2	794.5	776.0	757.6	735.3	716.8	698.4	691.0	683.6	687.3
56°	757.6	757.6	753.9	739.1	716.8	698.4	676.2	657.8	646.7	650.4	650.4
57°	727.9	720.5	720.5	702.1	683.6	657.8	639.2	620.8	613.4	609.7	609.7
58°	691.0	687.3	683.6	665.2	646.7	624.5	606.0	587.5	576.5	576.5	572.8
59°	654.1	654.1	646.7	631.8	613.4	591.2	572.8	554.3	543.3	539.4	539.4
60°	620.8	624.5	613.4	598.6	583.9	558.0	535.8	521.0	509.9	506.2	506.2
61°	591.2	591.2	583.9	565.4	546.9	528.4	506.2	487.8	480.4	473.0	473.0
62°	565.4	558.0	554.3	535.8	517.3	495.2	476.7	458.2	447.2	439.7	443.5
63°	532.1	528.4	521.0	506.2	487.8	465.6	443.5	428.6	417.5	406.5	410.1
64°	506.2	502.5	491.5	476.7	458.2	436.0	413.8	399.1	391.7	380.6	376.9
65°	473.0	469.3	465.6	447.2	428.6	406.5	388.0	373.2	362.2	354.8	347.4
66°	443.5	447.2	439.7	424.9	402.8	384.3	358.5	343.6	336.2	325.1	317.8
67°	417.5	417.5	410.1	395.4	373.2	354.8	336.2	317.8	306.7	295.6	291.9
67.5°	402.8	402.8	395.4	376.9	362.2	339.9	321.5	306.7	291.9	284.5	277.2
68°	388.0	388.0	384.3	369.5	351.1	328.8	310.4	291.9	277.2	266.1	262.4
69°	362.2	365.9	358.5	343.6	325.1	303.0	284.5	269.8	255.0	243.8	236.4
70°	339.9	336.2	328.8	314.1	295.6	280.9	262.4	243.8	229.1	214.3	210.6
71°	310.4	310.4	303.0	291.9	273.5	255.0	236.4	221.7	206.9	188.5	184.8
72°	288.2	288.2	280.9	266.1	251.3	232.8	214.3	195.8	184.8	166.3	158.9
72.5°	273.5	277.2	269.8	255.0	240.1	218.0	203.2	188.5	170.0	155.2	147.9
73°	266.1	262.4	258.7	243.8	225.4	210.6	192.2	177.4	158.9	144.1	136.7



TEST NUMBER: P585161
 CATALOG NUMBER: HCC8W60D010MB-HM86080935-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	166.3	166.3	162.6	147.9	133.0	118.2	103.5	88.7	73.9	59.2	51.8
80°	114.5	118.2	110.8	103.5	92.4	77.6	62.9	51.8	36.9	29.5	22.1
82.5°	73.9	73.9	70.2	62.9	55.5	44.3	36.9	25.8	18.5	14.8	11.1
85°	36.9	40.6	36.9	33.2	25.8	22.1	18.5	11.1	7.4	3.7	3.7
87.5°	14.8	14.8	14.8	11.1	11.1	7.4	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: P585161

CATALOG NUMBER: HCC8W60D010MB-HM86080935-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1
2.5°	2716.0	2716.0	2708.6	2704.8	2701.1	2697.5	2693.8	2690.1	2690.1	2693.8
5°	2693.8	2686.4	2671.6	2667.9	2656.9	2653.2	2645.8	2642.1	2645.8	2642.1
7.5°	2660.5	2645.8	2627.3	2619.9	2605.1	2597.7	2586.6	2586.6	2579.2	2582.9
10°	2616.3	2594.0	2571.9	2557.1	2546.0	2534.9	2527.6	2520.2	2516.5	2516.5
12.5°	2560.8	2534.9	2512.8	2490.5	2472.1	2464.7	2449.9	2449.9	2442.6	2438.9
15°	2497.9	2464.7	2438.9	2416.7	2401.8	2387.1	2376.0	2368.6	2361.2	2361.2
17.5°	2416.7	2387.1	2361.2	2335.4	2313.1	2302.1	2291.0	2279.9	2279.9	2272.5
20°	2328.0	2294.7	2272.5	2246.7	2228.3	2209.7	2194.9	2194.9	2187.5	2191.2
22.5°	2228.3	2187.5	2165.4	2146.9	2128.5	2113.6	2098.8	2098.8	2095.2	2091.5
25°	2117.4	2084.1	2058.2	2036.1	2025.0	2010.1	2006.5	1999.1	1995.4	1995.4
27.5°	1999.1	1973.2	1940.0	1928.9	1914.1	1906.7	1906.7	1903.0	1895.6	1899.3
30°	1873.5	1843.9	1825.5	1818.0	1803.2	1803.2	1799.5	1792.2	1792.2	1795.8
32.5°	1751.6	1721.9	1707.1	1703.5	1688.7	1688.7	1685.0	1688.7	1688.7	1692.4
35°	1618.5	1592.6	1588.9	1577.9	1574.2	1574.2	1574.2	1581.5	1588.9	1577.9
37.5°	1492.8	1474.4	1463.3	1459.6	1463.3	1463.3	1467.0	1478.1	1474.4	1470.7
40°	1363.5	1348.8	1341.4	1341.4	1348.8	1356.2	1356.2	1367.2	1370.9	1367.2
42.5°	1234.3	1223.1	1223.1	1226.8	1234.3	1237.9	1249.0	1260.1	1263.8	1267.5
45°	1112.2	1112.2	1112.2	1115.9	1119.6	1127.0	1141.9	1152.9	1156.6	1160.3
47.5°	994.0	990.3	1001.4	1005.1	1016.1	1019.8	1030.9	1045.8	1049.5	1053.2
50°	883.2	890.5	894.2	905.3	912.7	912.7	927.4	934.8	946.0	946.0
52.5°	779.7	790.8	794.5	805.5	809.2	812.9	820.3	831.4	838.9	838.9
55°	687.3	691.0	698.4	702.1	713.1	716.8	724.2	727.9	739.1	735.3
56°	646.7	654.1	657.8	665.2	672.5	676.2	683.6	687.3	694.7	698.4
57°	609.7	613.4	624.5	628.1	635.5	635.5	639.2	650.4	650.4	654.1
58°	572.8	580.2	583.9	587.5	594.9	598.6	606.0	609.7	613.4	609.7
59°	539.4	543.3	546.9	546.9	554.3	554.3	565.4	572.8	576.5	576.5
60°	506.2	506.2	509.9	513.6	521.0	524.7	524.7	532.1	532.1	532.1
61°	473.0	473.0	476.7	480.4	484.1	484.1	491.5	491.5	495.2	498.8
62°	443.5	439.7	439.7	443.5	443.5	450.9	454.6	458.2	461.9	458.2
63°	410.1	406.5	406.5	406.5	406.5	413.8	413.8	417.5	424.9	421.2
64°	373.2	373.2	373.2	373.2	376.9	376.9	384.3	388.0	391.7	395.4
65°	347.4	339.9	336.2	336.2	339.9	343.6	347.4	351.1	354.8	354.8
66°	317.8	310.4	306.7	306.7	306.7	306.7	314.1	314.1	321.5	321.5
67°	284.5	277.2	273.5	269.8	269.8	269.8	280.9	277.2	277.2	277.2
67.5°	273.5	262.4	258.7	255.0	251.3	258.7	255.0	258.7	258.7	255.0
68°	258.7	251.3	243.8	236.4	236.4	236.4	240.1	243.8	240.1	236.4
69°	229.1	225.4	214.3	206.9	203.2	206.9	203.2	206.9	203.2	206.9
70°	203.2	192.2	181.1	177.4	173.7	173.7	173.7	170.0	173.7	170.0
71°	177.4	166.3	155.2	147.9	144.1	144.1	140.4	144.1	140.4	144.1
72°	151.6	140.4	125.6	118.2	118.2	118.2	118.2	114.5	118.2	114.5
72.5°	140.4	125.6	114.5	107.2	103.5	103.5	103.5	103.5	99.8	103.5
73°	129.3	114.5	99.8	96.1	96.1	96.1	92.4	88.7	92.4	92.4



TEST NUMBER: P585161
CATALOG NUMBER: HCC8W60D010MB-HM86080935-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	44.3	33.2	29.5	29.5	29.5	29.5	29.5	29.5	25.8	25.8
80°	18.5	14.8	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
82.5°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
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



Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



74°	240.1	240.1	232.8	221.7	203.2	184.8	170.0	155.2	136.7	118.2	110.8
75°	221.7	218.0	210.6	199.5	184.8	166.3	151.6	133.0	118.2	99.8	92.4

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°	107.2	88.7	81.3	73.9	73.9	73.9	70.2	70.2	70.2	73.9
75°	85.0	70.2	62.9	55.5	59.2	55.5	59.2	55.5	55.5	55.5

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

Scaled Data Report



(END OF REPORT)