

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: P585212

Luminaire Tested: **HCC8S80D010MW-HM86080830-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585212  
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-HM86080830-81RWWH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

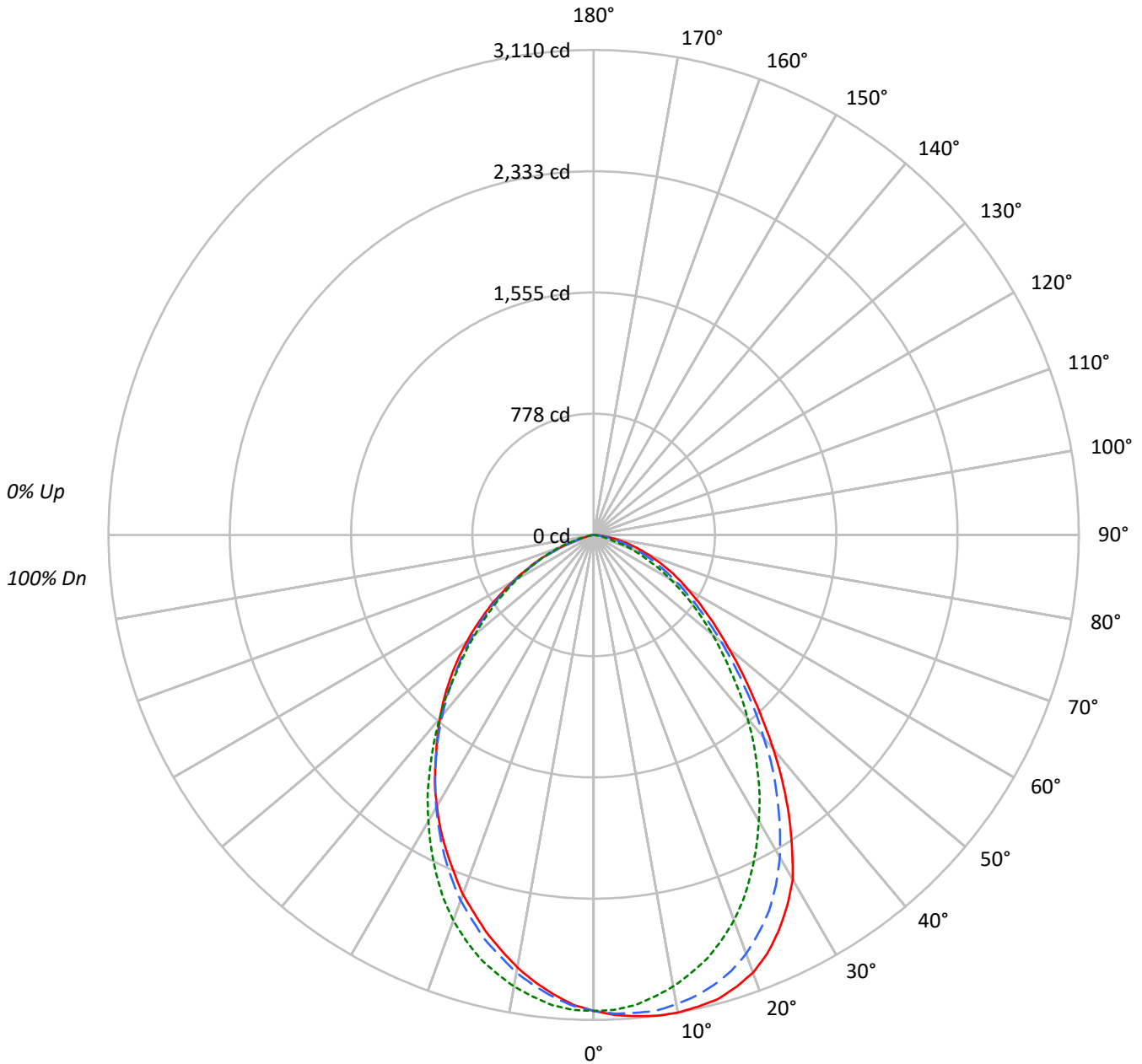
Lumens per Lamp: N/A  
Luminaire Lumens: 5722.2 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P585212  
CATALOG NUMBER: HCC8S80D010MW-HM86080830-81RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P585212

CATALOG NUMBER: HCC8S80D010MW-HM86080830-81RWWH

**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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77					77			
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67					67			
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59					59			
5	81	70	62	56	79	69	62	56	67	60	55	65	59	55	63	58	54	52					52			
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47					47			
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42					42			
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38					38			
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35					35			
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32					32			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	94125	94125	94125
5°	95890	93717	91541
10°	97390	92076	88193
15°	98368	89787	84372
20°	97993	86317	80486
25°	95407	81338	75989
30°	90868	75401	71573
35°	82053	68817	66480
40°	72091	61766	61605
45°	62226	54289	56635
50°	54166	47618	50794
55°	48031	41359	44246
60°	42856	34950	36732
65°	38635	28369	28967
70°	34306	21260	17148
75°	29559	12319	7399
80°	22766	4422	2202
85°	14648	1486	1486



TEST NUMBER: P585212  
 CATALOG NUMBER: HCC8S80D010MW-HM86080830-81RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.5	5.0
10°-20°	797.7	13.9
20°-30°	1128.2	19.7
30°-40°	1188.8	20.8
40°-50°	1010.3	17.7
50°-60°	727.5	12.7
60°-70°	419.7	7.3
70°-80°	143.6	2.5
80°-90°	19.8	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°	2212.4	38.7
0°-40°	3401.3	59.4
0°-60°	5139.1	89.8
0°-90°	5722.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5722.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3052	3052	3052	3052	3052	
5°	3098	3077	3028	2974	2957	296
15°	3081	2986	2812	2688	2643	868
25°	2804	2659	2391	2266	2233	1286
35°	2180	2052	1828	1762	1766	1357
45°	1427	1361	1245	1253	1299	1109
55°	893	823	769	798	823	804
65°	530	455	389	380	397	527
75°	248	186	103	66	62	262
85°	41	25	4	4	4	56
90°	0	0	0	0	0	



TEST NUMBER: P585212

CATALOG NUMBER: HCC8S80D010MW-HM86080830-81RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4
2.5°	3081.3	3085.5	3081.3	3081.3	3077.1	3073.1	3068.9	3064.8	3056.4	3048.2	3048.2
5°	3097.8	3106.1	3097.8	3097.8	3085.5	3077.1	3068.9	3056.4	3039.9	3027.6	3027.6
7.5°	3110.3	3110.3	3110.3	3097.8	3089.6	3077.1	3056.4	3035.8	3015.2	2994.5	2986.2
10°	3110.3	3110.3	3106.1	3089.6	3081.3	3056.4	3035.8	3006.9	2977.9	2949.0	2940.6
12.5°	3097.8	3102.0	3093.7	3077.1	3056.4	3027.6	2998.5	2961.3	2928.3	2895.2	2878.7
15°	3081.3	3077.1	3068.9	3048.2	3023.4	2986.2	2957.3	2915.9	2870.4	2829.0	2812.5
17.5°	3039.9	3039.9	3027.6	3006.9	2973.8	2932.4	2886.9	2841.5	2791.8	2746.2	2725.7
20°	2986.2	2986.2	2969.6	2944.8	2911.7	2858.0	2808.3	2754.6	2696.7	2651.1	2630.4
22.5°	2907.6	2911.7	2891.1	2862.0	2824.8	2762.9	2713.2	2647.1	2589.2	2535.3	2518.8
25°	2804.1	2812.5	2791.8	2762.9	2713.2	2659.4	2597.4	2535.3	2469.2	2415.5	2390.6
27.5°	2684.3	2688.3	2667.8	2638.7	2589.2	2531.3	2469.2	2403.0	2340.9	2283.1	2258.3
30°	2552.0	2535.3	2527.1	2489.9	2436.1	2386.4	2316.2	2262.4	2196.2	2146.6	2117.6
32.5°	2365.8	2374.1	2349.2	2320.3	2279.0	2221.1	2163.1	2101.1	2039.0	2001.8	1981.1
35°	2179.7	2187.9	2175.5	2146.6	2101.1	2051.5	1993.6	1948.1	1894.3	1848.8	1828.1
37.5°	1985.3	1985.3	1977.0	1960.4	1927.4	1881.8	1823.9	1778.5	1733.0	1695.8	1683.4
40°	1790.9	1782.5	1778.5	1766.0	1737.1	1695.8	1658.5	1621.3	1575.8	1550.9	1534.4
42.5°	1600.6	1600.6	1592.3	1579.9	1550.9	1530.4	1493.1	1451.8	1418.6	1393.9	1393.9
45°	1426.9	1431.1	1418.6	1410.4	1393.9	1360.7	1327.6	1298.7	1269.7	1253.2	1244.9
47.5°	1273.9	1273.9	1261.5	1253.2	1236.7	1207.7	1178.8	1153.9	1133.2	1120.9	1116.7
50°	1129.1	1129.1	1129.1	1108.4	1087.8	1067.1	1046.4	1017.4	1005.1	996.7	992.6
52.5°	1005.1	1000.9	1000.9	984.4	963.7	938.8	918.1	893.4	880.9	872.7	876.8
55°	893.4	893.4	889.3	868.6	847.9	823.0	802.3	781.6	773.4	765.1	769.3
56°	847.9	847.9	843.7	827.2	802.3	781.6	756.9	736.2	723.7	727.9	727.9
57°	814.8	806.5	806.5	785.8	765.1	736.2	715.5	694.9	686.5	682.5	682.5
58°	773.4	769.3	765.1	744.4	723.7	699.0	678.3	657.6	645.3	645.3	641.1
59°	732.1	732.1	723.7	707.2	686.5	661.8	641.1	620.4	607.9	603.9	603.9
60°	694.9	699.0	686.5	670.0	653.5	624.6	599.7	583.2	570.7	566.7	566.7
61°	661.8	661.8	653.5	632.8	612.1	591.4	566.7	546.0	537.7	529.5	529.5
62°	632.8	624.6	620.4	599.7	579.0	554.2	533.5	512.8	500.5	492.1	496.3
63°	595.6	591.4	583.2	566.7	546.0	521.1	496.3	479.8	467.4	454.9	459.1
64°	566.7	562.5	550.0	533.5	512.8	488.1	463.2	446.7	438.4	426.0	421.9
65°	529.5	525.3	521.1	500.5	479.8	454.9	434.2	417.7	405.3	397.0	388.8
66°	496.3	500.5	492.1	475.6	450.9	430.2	401.2	384.6	376.3	364.0	355.7
67°	467.4	467.4	459.1	442.5	417.7	397.0	376.3	355.7	343.3	330.9	326.7
67.5°	450.9	450.9	442.5	421.9	405.3	380.5	359.8	343.3	326.7	318.4	310.2
68°	434.2	434.2	430.2	413.7	393.0	368.1	347.4	326.7	310.2	297.8	293.7
69°	405.3	409.5	401.2	384.6	364.0	339.1	318.4	301.9	285.4	273.0	264.7
70°	380.5	376.3	368.1	351.6	330.9	314.4	293.7	273.0	256.5	239.9	235.8
71°	347.4	347.4	339.1	326.7	306.0	285.4	264.7	248.1	231.6	210.9	206.8
72°	322.6	322.6	314.4	297.8	281.2	260.5	239.9	219.3	206.8	186.1	177.9
72.5°	306.0	310.2	301.9	285.4	268.8	244.0	227.5	210.9	190.2	173.7	165.4
73°	297.8	293.7	289.5	273.0	252.3	235.8	215.1	198.6	177.9	161.3	153.0



TEST NUMBER: P585212  
 CATALOG NUMBER: HCC8S80D010MW-HM86080830-81RWWH

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	<i>186.1</i>	186.1	182.0	165.4	148.9	132.3	115.8	99.3	82.8	66.2	57.9
80°	<i>128.2</i>	132.3	124.1	115.8	103.4	86.8	70.3	57.9	41.4	33.1	24.9
82.5°	<i>82.8</i>	82.8	78.6	70.3	62.1	49.6	41.4	28.9	20.7	16.5	12.4
85°	<i>41.4</i>	45.5	41.4	37.2	28.9	24.9	20.7	12.4	8.3	4.2	4.2
87.5°	<i>16.5</i>	16.5	16.5	12.4	12.4	8.3	4.2	4.2	4.2	0.0	0.0
90°	<i>0.0</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P585212

CATALOG NUMBER: HCC8S80D010MW-HM86080830-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4
2.5°	3039.9	3039.9	3031.7	3027.6	3023.4	3019.2	3015.2	3011.0	3011.0	3015.2
5°	3015.2	3006.9	2990.3	2986.2	2973.8	2969.6	2961.3	2957.3	2961.3	2957.3
7.5°	2977.9	2961.3	2940.6	2932.4	2915.9	2907.6	2895.2	2895.2	2886.9	2891.1
10°	2928.3	2903.4	2878.7	2862.0	2849.7	2837.3	2829.0	2820.8	2816.6	2816.6
12.5°	2866.2	2837.3	2812.5	2787.6	2766.9	2758.7	2742.2	2742.2	2733.9	2729.7
15°	2795.9	2758.7	2729.7	2705.0	2688.3	2671.8	2659.4	2651.1	2642.9	2642.9
17.5°	2705.0	2671.8	2642.9	2613.9	2589.2	2576.7	2564.3	2552.0	2552.0	2543.6
20°	2605.7	2568.5	2543.6	2514.6	2494.0	2473.4	2456.7	2456.7	2448.5	2452.7
22.5°	2494.0	2448.5	2423.7	2403.0	2382.3	2365.8	2349.2	2349.2	2345.1	2340.9
25°	2369.9	2332.7	2303.7	2279.0	2266.5	2249.9	2245.8	2237.6	2233.4	2233.4
27.5°	2237.6	2208.6	2171.4	2159.0	2142.5	2134.1	2134.1	2130.0	2121.8	2125.9
30°	2096.9	2063.9	2043.2	2034.9	2018.3	2018.3	2014.2	2006.0	2006.0	2010.1
32.5°	1960.4	1927.4	1910.8	1906.7	1890.2	1890.2	1886.0	1890.2	1890.2	1894.3
35°	1811.6	1782.5	1778.5	1766.0	1762.0	1762.0	1762.0	1770.2	1778.5	1766.0
37.5°	1670.9	1650.2	1637.8	1633.7	1637.8	1637.8	1642.0	1654.4	1650.2	1646.2
40°	1526.2	1509.7	1501.4	1501.4	1509.7	1517.9	1517.9	1530.4	1534.4	1530.4
42.5°	1381.4	1369.0	1369.0	1373.2	1381.4	1385.5	1397.9	1410.4	1414.6	1418.6
45°	1244.9	1244.9	1244.9	1249.0	1253.2	1261.5	1278.1	1290.4	1294.6	1298.7
47.5°	1112.5	1108.4	1120.9	1125.0	1137.4	1141.6	1153.9	1170.5	1174.6	1178.8
50°	988.5	996.7	1000.9	1013.3	1021.6	1021.6	1038.1	1046.4	1058.8	1058.8
52.5°	872.7	885.1	889.3	901.6	905.8	909.9	918.1	930.6	938.8	938.8
55°	769.3	773.4	781.6	785.8	798.3	802.3	810.7	814.8	827.2	823.0
56°	723.7	732.1	736.2	744.4	752.8	756.9	765.1	769.3	777.6	781.6
57°	682.5	686.5	699.0	703.2	711.4	711.4	715.5	727.9	727.9	732.1
58°	641.1	649.3	653.5	657.6	665.8	670.0	678.3	682.5	686.5	682.5
59°	603.9	607.9	612.1	612.1	620.4	620.4	632.8	641.1	645.3	645.3
60°	566.7	566.7	570.7	574.9	583.2	587.4	587.4	595.6	595.6	595.6
61°	529.5	529.5	533.5	537.7	541.8	541.8	550.0	550.0	554.2	558.4
62°	496.3	492.1	492.1	496.3	496.3	504.6	508.8	512.8	517.0	512.8
63°	459.1	454.9	454.9	454.9	454.9	463.2	463.2	467.4	475.6	471.6
64°	417.7	417.7	417.7	417.7	421.9	421.9	430.2	434.2	438.4	442.5
65°	388.8	380.5	376.3	376.3	380.5	384.6	388.8	393.0	397.0	397.0
66°	355.7	347.4	343.3	343.3	343.3	343.3	351.6	351.6	359.8	359.8
67°	318.4	310.2	306.0	301.9	301.9	301.9	314.4	310.2	310.2	310.2
67.5°	306.0	293.7	289.5	285.4	281.2	289.5	285.4	289.5	289.5	285.4
68°	289.5	281.2	273.0	264.7	264.7	264.7	268.8	273.0	268.8	264.7
69°	256.5	252.3	239.9	231.6	227.5	231.6	227.5	231.6	227.5	231.6
70°	227.5	215.1	202.6	198.6	194.4	194.4	194.4	190.2	194.4	190.2
71°	198.6	186.1	173.7	165.4	161.3	161.3	157.2	161.3	157.2	161.3
72°	169.6	157.2	140.7	132.3	132.3	132.3	132.3	128.2	132.3	128.2
72.5°	157.2	140.7	128.2	120.0	115.8	115.8	115.8	115.8	111.6	115.8
73°	144.7	128.2	111.6	107.5	107.5	107.5	103.4	99.3	103.4	103.4





TEST NUMBER: P585212

CATALOG NUMBER: HCC8S80D010MW-HM86080830-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	49.6	37.2	33.1	33.1	33.1	33.1	33.1	33.1	28.9	28.9
80°	20.7	16.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
82.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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°	268.8	268.8	260.5	248.1	227.5	206.8	190.2	173.7	153.0	132.3	124.1
75°	248.1	244.0	235.8	223.3	206.8	186.1	169.6	148.9	132.3	111.6	103.4

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°	120.0	99.3	91.0	82.8	82.8	82.8	78.6	78.6	78.6	82.8
75°	95.1	78.6	70.3	62.1	66.2	62.1	66.2	62.1	62.1	62.1

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

Scaled Data Report



(END OF REPORT)