

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: P593869

Luminaire Tested: **HCC8W60D010BZ-HM86080850-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593869  
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: HCC8W60D010BZ-HM86080850-81RWWH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

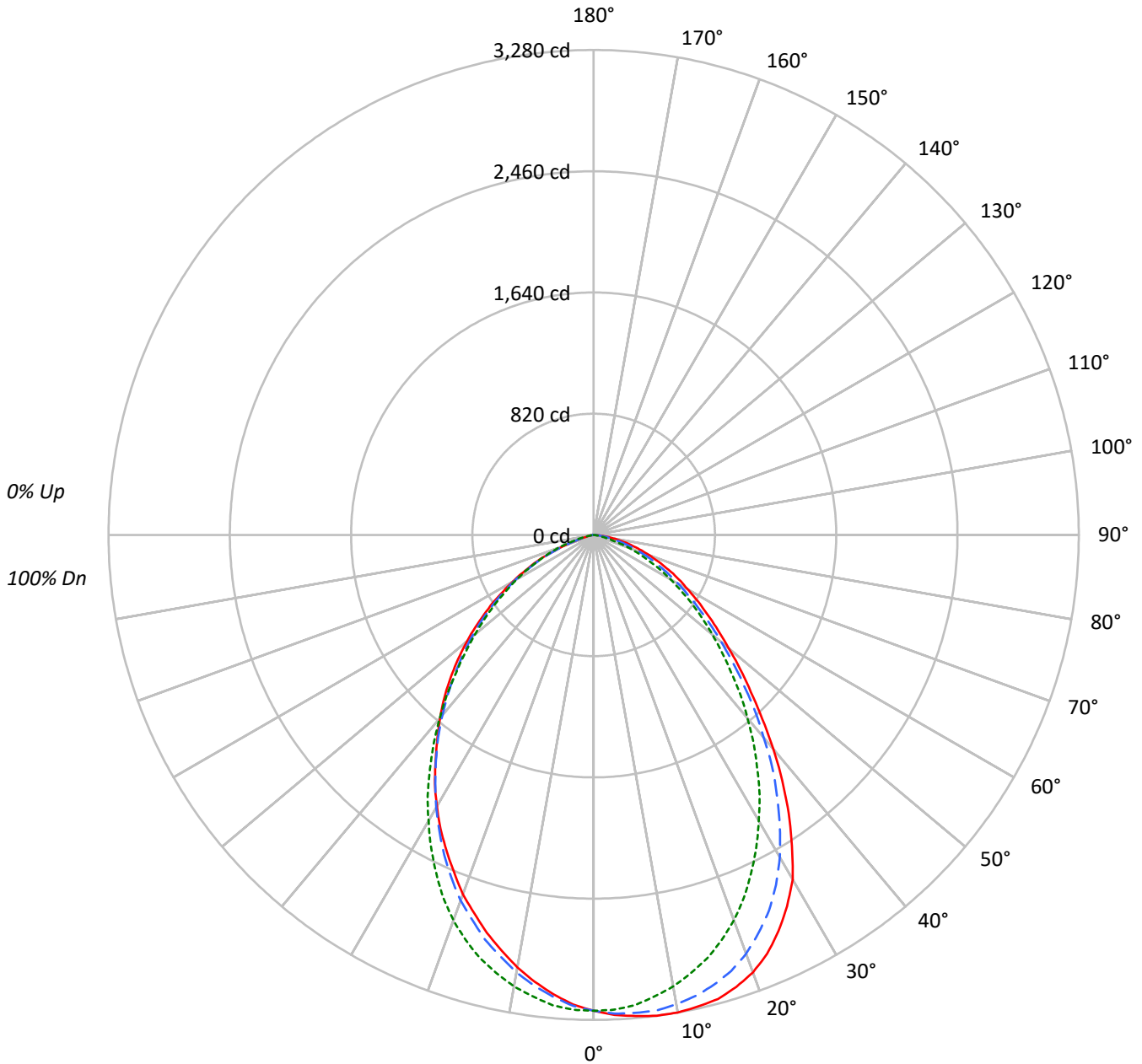
Lumens per Lamp: N/A  
Luminaire Lumens: 6033.9 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P593869  
CATALOG NUMBER: HCC8W60D010BZ-HM86080850-81RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P593869

CATALOG NUMBER: HCC8W60D010BZ-HM86080850-81RWWH

**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			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°	99250	99250	99250
5°	101112	98821	96524
10°	102694	97095	92997
15°	103725	94674	88966
20°	103329	91023	84870
25°	100609	85768	80130
30°	95814	79510	75472
35°	86521	72567	70105
40°	76020	65131	64958
45°	65614	57246	59718
50°	57121	50213	53562
55°	50643	43611	46660
60°	45181	36849	38730
65°	40729	29908	30550
70°	36181	22414	18086
75°	31180	12987	7792
80°	24009	4653	2309
85°	15426	1557	1557



TEST NUMBER: P593869  
 CATALOG NUMBER: HCC8W60D010BZ-HM86080850-81RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.1	5.0
10°-20°	841.1	13.9
20°-30°	1189.7	19.7
30°-40°	1253.6	20.8
40°-50°	1065.4	17.7
50°-60°	767.2	12.7
60°-70°	442.5	7.3
70°-80°	151.4	2.5
80°-90°	20.8	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°	2332.9	38.7
0°-40°	3586.5	59.4
0°-60°	5419.1	89.8
0°-90°	6033.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6033.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3219	3219	3219	3219	3219	
5°	3266	3245	3192	3136	3118	312
15°	3249	3149	2966	2835	2787	915
25°	2957	2804	2521	2390	2355	1356
35°	2298	2163	1928	1858	1862	1431
45°	1505	1435	1313	1322	1369	1169
55°	942	868	811	842	868	848
65°	558	480	410	401	419	555
75°	262	196	109	70	65	276
85°	44	26	4	4	4	59
90°	0	0	0	0	0	



TEST NUMBER: P593869

CATALOG NUMBER: HCC8W60D010BZ-HM86080850-81RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6
2.5°	3249.1	3253.5	3249.1	3249.1	3244.7	3240.5	3236.1	3231.7	3222.9	3214.3	3214.3
5°	3266.5	3275.3	3266.5	3266.5	3253.5	3244.7	3236.1	3222.9	3205.5	3192.5	3192.5
7.5°	3279.7	3279.7	3279.7	3266.5	3257.9	3244.7	3222.9	3201.1	3179.3	3157.5	3148.8
10°	3279.7	3279.7	3275.3	3257.9	3249.1	3222.9	3201.1	3170.7	3140.1	3109.6	3100.9
12.5°	3266.5	3270.9	3262.3	3244.7	3222.9	3192.5	3161.9	3122.7	3087.8	3052.9	3035.4
15°	3249.1	3244.7	3236.1	3214.3	3188.1	3148.8	3118.3	3074.7	3026.8	2983.2	2965.6
17.5°	3205.5	3205.5	3192.5	3170.7	3135.7	3092.2	3044.2	2996.2	2943.8	2895.8	2874.0
20°	3148.8	3148.8	3131.4	3105.2	3070.4	3013.6	2961.4	2904.6	2843.6	2795.6	2773.8
22.5°	3066.0	3070.4	3048.6	3018.0	2978.8	2913.4	2861.0	2791.2	2730.1	2673.5	2656.0
25°	2957.0	2965.6	2943.8	2913.4	2861.0	2804.3	2738.9	2673.5	2603.7	2546.9	2520.8
27.5°	2830.4	2834.8	2813.0	2782.5	2730.1	2669.1	2603.7	2533.9	2468.5	2407.4	2381.2
30°	2690.9	2673.5	2664.7	2625.5	2568.7	2516.5	2442.3	2385.6	2315.8	2263.5	2233.0
32.5°	2494.7	2503.3	2477.2	2446.7	2403.1	2342.0	2281.0	2215.6	2150.1	2110.8	2089.0
35°	2298.4	2307.1	2294.0	2263.5	2215.6	2163.2	2102.2	2054.2	1997.5	1949.5	1927.7
37.5°	2093.4	2093.4	2084.7	2067.2	2032.4	1984.4	1923.3	1875.3	1827.3	1788.1	1775.1
40°	1888.5	1879.7	1875.3	1862.3	1831.7	1788.1	1748.9	1709.6	1661.6	1635.5	1618.0
42.5°	1687.8	1687.8	1679.1	1666.0	1635.5	1613.7	1574.4	1530.8	1496.0	1469.8	1469.8
45°	1504.6	1509.0	1496.0	1487.2	1469.8	1434.8	1400.0	1369.4	1338.9	1321.5	1312.7
47.5°	1343.2	1343.2	1330.2	1321.5	1304.0	1273.5	1242.9	1216.8	1195.0	1181.9	1177.5
50°	1190.7	1190.7	1190.7	1168.9	1147.1	1125.3	1103.3	1072.9	1059.7	1051.1	1046.7
52.5°	1059.7	1055.5	1055.5	1037.9	1016.1	990.0	968.2	942.0	928.9	920.2	924.6
55°	942.0	942.0	937.7	915.9	894.1	867.9	846.1	824.3	815.6	806.8	811.2
56°	894.1	894.1	889.7	872.2	846.1	824.3	798.2	776.4	763.2	767.6	767.6
57°	859.2	850.4	850.4	828.6	806.8	776.4	754.6	732.6	724.0	719.6	719.6
58°	815.6	811.2	806.8	785.0	763.2	737.0	715.2	693.4	680.4	680.4	676.0
59°	772.0	772.0	763.2	745.8	724.0	697.8	676.0	654.2	641.1	636.8	636.8
60°	732.6	737.0	724.0	706.6	689.0	658.6	632.4	615.0	601.8	597.5	597.5
61°	697.8	697.8	689.0	667.2	645.4	623.6	597.5	575.7	567.0	558.2	558.2
62°	667.2	658.6	654.2	632.4	610.6	584.4	562.6	540.8	527.7	519.0	523.3
63°	628.0	623.6	615.0	597.5	575.7	549.5	523.3	505.9	492.8	479.7	484.1
64°	597.5	593.1	580.0	562.6	540.8	514.6	488.5	471.0	462.3	449.2	444.9
65°	558.2	553.9	549.5	527.7	505.9	479.7	457.9	440.5	427.5	418.7	409.9
66°	523.3	527.7	519.0	501.5	475.4	453.5	423.1	405.7	396.9	383.7	375.1
67°	492.8	492.8	484.1	466.7	440.5	418.7	396.9	375.1	361.9	348.9	344.5
67.5°	475.4	475.4	466.7	444.9	427.5	401.3	379.5	361.9	344.5	335.9	327.1
68°	457.9	457.9	453.5	436.1	414.3	388.1	366.3	344.5	327.1	314.0	309.7
69°	427.5	431.7	423.1	405.7	383.7	357.7	335.9	318.3	300.9	287.9	279.1
70°	401.3	396.9	388.1	370.7	348.9	331.5	309.7	287.9	270.4	252.9	248.6
71°	366.3	366.3	357.7	344.5	322.7	300.9	279.1	261.7	244.2	222.4	218.1
72°	340.1	340.1	331.5	314.0	296.5	274.7	252.9	231.1	218.1	196.3	187.5
72.5°	322.7	327.1	318.3	300.9	283.5	257.3	239.9	222.4	200.6	183.2	174.4
73°	314.0	309.7	305.3	287.9	266.1	248.6	226.8	209.3	187.5	170.1	161.4



TEST NUMBER: P593869  
 CATALOG NUMBER: HCC8W60D010BZ-HM86080850-81RWWH

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	196.3	196.3	191.9	174.4	157.0	139.6	122.1	104.6	87.2	69.8	61.0
80°	135.2	139.6	130.8	122.1	109.0	91.6	74.2	61.0	43.6	34.8	26.2
82.5°	87.2	87.2	82.8	74.2	65.4	52.4	43.6	30.6	21.8	17.4	13.0
85°	43.6	48.0	43.6	39.2	30.6	26.2	21.8	13.0	8.8	4.4	4.4
87.5°	17.4	17.4	17.4	13.0	13.0	8.8	4.4	4.4	4.4	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



TEST NUMBER: P593869

CATALOG NUMBER: HCC8W60D010BZ-HM86080850-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6
2.5°	3205.5	3205.5	3196.8	3192.5	3188.1	3183.7	3179.3	3175.0	3175.0	3179.3
5°	3179.3	3170.7	3153.2	3148.8	3135.7	3131.4	3122.7	3118.3	3122.7	3118.3
7.5°	3140.1	3122.7	3100.9	3092.2	3074.7	3066.0	3052.9	3052.9	3044.2	3048.6
10°	3087.8	3061.6	3035.4	3018.0	3005.0	2991.8	2983.2	2974.4	2970.0	2970.0
12.5°	3022.4	2991.8	2965.6	2939.4	2917.6	2909.0	2891.6	2891.6	2882.8	2878.4
15°	2948.2	2909.0	2878.4	2852.2	2834.8	2817.4	2804.3	2795.6	2786.8	2786.8
17.5°	2852.2	2817.4	2786.8	2756.3	2730.1	2717.1	2704.0	2690.9	2690.9	2682.2
20°	2747.6	2708.3	2682.2	2651.7	2629.9	2608.1	2590.5	2590.5	2581.9	2586.3
22.5°	2629.9	2581.9	2555.7	2533.9	2512.1	2494.7	2477.2	2477.2	2472.9	2468.5
25°	2499.0	2459.7	2429.2	2403.1	2390.0	2372.5	2368.2	2359.4	2355.1	2355.1
27.5°	2359.4	2328.9	2289.6	2276.6	2259.2	2250.4	2250.4	2246.0	2237.4	2241.6
30°	2211.2	2176.2	2154.4	2145.8	2128.3	2128.3	2124.0	2115.2	2115.2	2119.6
32.5°	2067.2	2032.4	2014.9	2010.5	1993.1	1993.1	1988.7	1993.1	1993.1	1997.5
35°	1910.3	1879.7	1875.3	1862.3	1857.9	1857.9	1857.9	1866.7	1875.3	1862.3
37.5°	1761.9	1740.1	1727.1	1722.7	1727.1	1727.1	1731.4	1744.5	1740.1	1735.8
40°	1609.3	1591.8	1583.2	1583.2	1591.8	1600.6	1600.6	1613.7	1618.0	1613.7
42.5°	1456.6	1443.6	1443.6	1448.0	1456.6	1461.0	1474.2	1487.2	1491.6	1496.0
45°	1312.7	1312.7	1312.7	1317.1	1321.5	1330.2	1347.6	1360.7	1365.0	1369.4
47.5°	1173.1	1168.9	1181.9	1186.3	1199.3	1203.7	1216.8	1234.3	1238.6	1242.9
50°	1042.3	1051.1	1055.5	1068.5	1077.3	1077.3	1094.7	1103.3	1116.5	1116.5
52.5°	920.2	933.3	937.7	950.7	955.1	959.5	968.2	981.3	990.0	990.0
55°	811.2	815.6	824.3	828.6	841.8	846.1	854.8	859.2	872.2	867.9
56°	763.2	772.0	776.4	785.0	793.8	798.2	806.8	811.2	820.0	824.3
57°	719.6	724.0	737.0	741.4	750.2	750.2	754.6	767.6	767.6	772.0
58°	676.0	684.8	689.0	693.4	702.2	706.6	715.2	719.6	724.0	719.6
59°	636.8	641.1	645.4	645.4	654.2	654.2	667.2	676.0	680.4	680.4
60°	597.5	597.5	601.8	606.2	615.0	619.3	619.3	628.0	628.0	628.0
61°	558.2	558.2	562.6	567.0	571.3	571.3	580.0	580.0	584.4	588.8
62°	523.3	519.0	519.0	523.3	523.3	532.1	536.4	540.8	545.2	540.8
63°	484.1	479.7	479.7	479.7	479.7	488.5	488.5	492.8	501.5	497.2
64°	440.5	440.5	440.5	440.5	444.9	444.9	453.5	457.9	462.3	466.7
65°	409.9	401.3	396.9	396.9	401.3	405.7	409.9	414.3	418.7	418.7
66°	375.1	366.3	361.9	361.9	361.9	361.9	370.7	370.7	379.5	379.5
67°	335.9	327.1	322.7	318.3	318.3	318.3	331.5	327.1	327.1	327.1
67.5°	322.7	309.7	305.3	300.9	296.5	305.3	300.9	305.3	305.3	300.9
68°	305.3	296.5	287.9	279.1	279.1	279.1	283.5	287.9	283.5	279.1
69°	270.4	266.1	252.9	244.2	239.9	244.2	239.9	244.2	239.9	244.2
70°	239.9	226.8	213.7	209.3	205.0	205.0	205.0	200.6	205.0	200.6
71°	209.3	196.3	183.2	174.4	170.1	170.1	165.7	170.1	165.7	170.1
72°	178.8	165.7	148.3	139.6	139.6	139.6	139.6	135.2	139.6	135.2
72.5°	165.7	148.3	135.2	126.5	122.1	122.1	122.1	122.1	117.8	122.1
73°	152.6	135.2	117.8	113.4	113.4	113.4	109.0	104.6	109.0	109.0





TEST NUMBER: P593869  
CATALOG NUMBER: HCC8W60D010BZ-HM86080850-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	52.4	39.2	34.8	34.8	34.8	34.8	34.8	34.8	30.6	30.6
80°	21.8	17.4	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
82.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
85°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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°	283.5	283.5	274.7	261.7	239.9	218.1	200.6	183.2	161.4	139.6	130.8
75°	261.7	257.3	248.6	235.5	218.1	196.3	178.8	157.0	139.6	117.8	109.0

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°	126.5	104.6	96.0	87.2	87.2	87.2	82.8	82.8	82.8	87.2
75°	100.3	82.8	74.2	65.4	69.8	65.4	69.8	65.4	65.4	65.4

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

Scaled Data Report



(END OF REPORT)