

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: P585093

Luminaire Tested: **HCC8W60D010MB-HM86080835-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585093
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-HM86080835-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

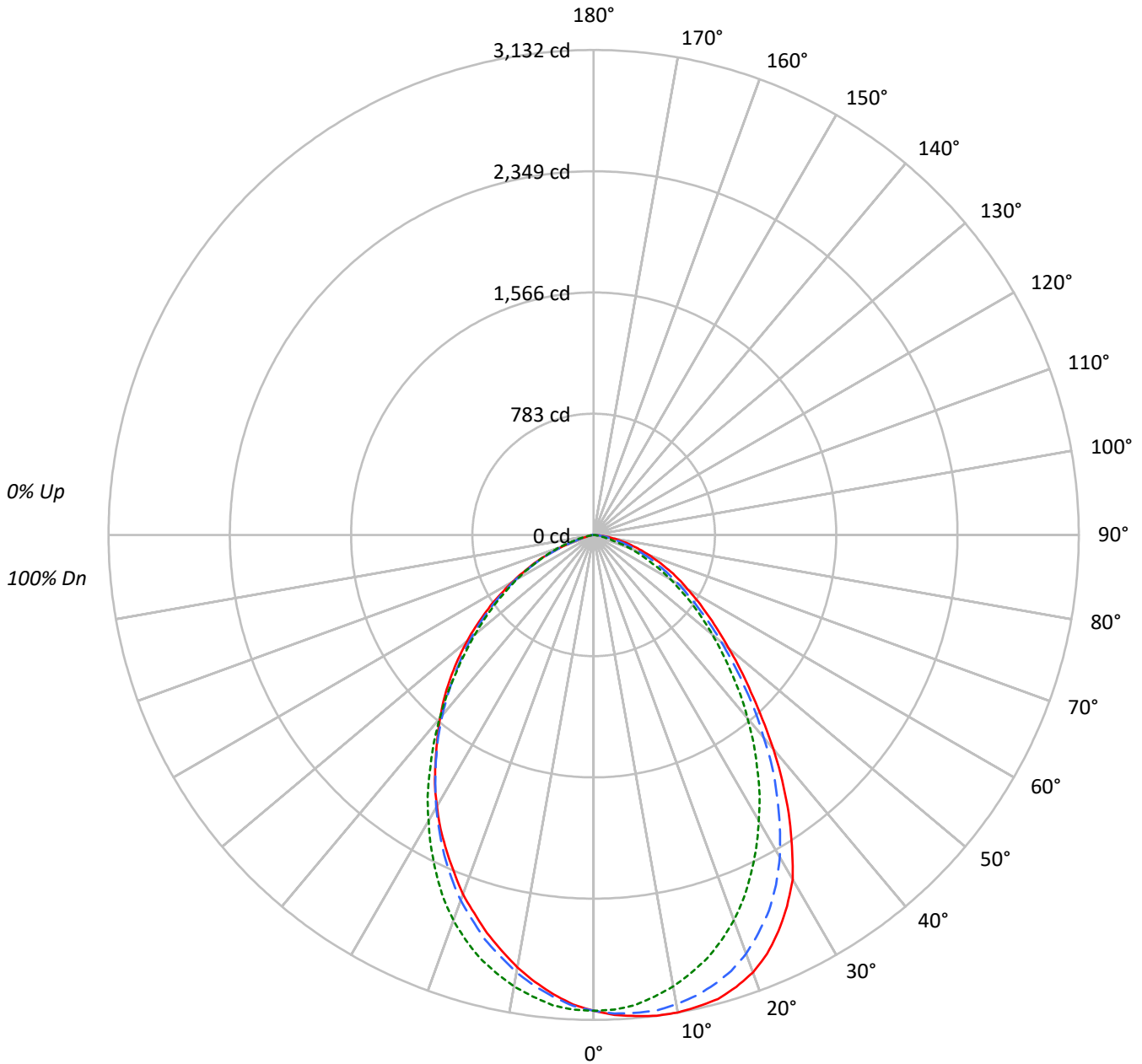
Lumens per Lamp: N/A
Luminaire Lumens: 5761.6 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P585093
CATALOG NUMBER: HCC8W60D010MB-HM86080835-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P585093

CATALOG NUMBER: HCC8W60D010MB-HM86080835-81RWWH

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°	94769	94769	94769
5°	96555	94360	92169
10°	98060	92715	88801
15°	99045	90403	84953
20°	98669	86918	81037
25°	96067	81896	76513
30°	91491	75921	72068
35°	82618	69292	66939
40°	72586	62192	62023
45°	62658	54664	57023
50°	54540	47949	51144
55°	48358	41644	44552
60°	43152	35190	36985
65°	38898	28566	29171
70°	34549	21404	17275
75°	29762	12415	7446
80°	22925	4439	2220
85°	14718	1486	1486



TEST NUMBER: P585093
 CATALOG NUMBER: HCC8W60D010MB-HM86080835-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.5	5.0
10°-20°	803.2	13.9
20°-30°	1136.0	19.7
30°-40°	1197.0	20.8
40°-50°	1017.3	17.7
50°-60°	732.6	12.7
60°-70°	422.6	7.3
70°-80°	144.6	2.5
80°-90°	19.9	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°	2227.7	38.7
0°-40°	3424.7	59.4
0°-60°	5174.6	89.8
0°-90°	5761.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5761.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3073	3073	3073	3073	3073	
5°	3119	3098	3048	2994	2978	298
15°	3102	3007	2832	2707	2661	874
25°	2824	2678	2407	2282	2249	1295
35°	2195	2066	1841	1774	1778	1367
45°	1437	1370	1254	1262	1308	1116
55°	900	829	775	804	829	809
65°	533	458	392	383	400	530
75°	250	187	104	67	62	264
85°	42	25	4	4	4	56
90°	0	0	0	0	0	



TEST NUMBER: P585093

CATALOG NUMBER: HCC8W60D010MB-HM86080835-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3
2.5°	3102.5	3106.7	3102.5	3102.5	3098.4	3094.2	3090.1	3085.9	3077.6	3069.2	3069.2
5°	3119.3	3127.6	3119.3	3119.3	3106.7	3098.4	3090.1	3077.6	3060.9	3048.4	3048.4
7.5°	3131.7	3131.7	3131.7	3119.3	3110.8	3098.4	3077.6	3056.7	3036.0	3015.1	3006.8
10°	3131.7	3131.7	3127.6	3110.8	3102.5	3077.6	3056.7	3027.6	2998.5	2969.3	2961.0
12.5°	3119.3	3123.4	3115.1	3098.4	3077.6	3048.4	3019.3	2981.8	2948.4	2915.1	2898.5
15°	3102.5	3098.4	3090.1	3069.2	3044.3	3006.8	2977.6	2936.0	2890.2	2848.6	2831.8
17.5°	3060.9	3060.9	3048.4	3027.6	2994.2	2952.6	2906.8	2861.0	2811.1	2765.3	2744.4
20°	3006.8	3006.8	2990.1	2965.2	2931.8	2877.6	2827.7	2773.6	2715.2	2669.4	2648.7
22.5°	2927.7	2931.8	2911.0	2881.9	2844.4	2781.9	2731.9	2665.3	2607.0	2552.8	2536.2
25°	2823.5	2831.8	2811.1	2781.9	2731.9	2677.7	2615.3	2552.8	2486.2	2432.1	2407.0
27.5°	2702.8	2706.9	2686.2	2657.0	2607.0	2548.7	2486.2	2419.6	2357.1	2298.8	2273.8
30°	2569.5	2552.8	2544.5	2507.0	2452.9	2402.9	2332.2	2278.0	2211.3	2161.4	2132.2
32.5°	2382.1	2390.4	2365.4	2336.3	2294.7	2236.3	2178.1	2115.6	2053.1	2015.6	1994.8
35°	2194.7	2203.0	2190.5	2161.4	2115.6	2065.6	2007.3	1961.5	1907.4	1861.6	1840.7
37.5°	1999.0	1999.0	1990.7	1973.9	1940.7	1894.8	1836.6	1790.8	1745.0	1707.5	1694.9
40°	1803.2	1794.9	1790.8	1778.2	1749.1	1707.5	1670.0	1632.5	1586.7	1561.7	1545.0
42.5°	1611.6	1611.6	1603.3	1590.9	1561.7	1540.8	1503.3	1461.7	1428.4	1403.5	1403.5
45°	1436.8	1440.9	1428.4	1420.1	1403.5	1370.1	1336.8	1307.6	1278.5	1261.8	1253.5
47.5°	1282.7	1282.7	1270.1	1261.8	1245.2	1216.0	1186.8	1161.9	1141.1	1128.6	1124.4
50°	1136.9	1136.9	1136.9	1116.1	1095.3	1074.4	1053.6	1024.4	1012.0	1003.7	999.5
52.5°	1012.0	1007.8	1007.8	991.1	970.4	945.3	924.6	899.5	887.1	878.7	882.9
55°	899.5	899.5	895.4	874.5	853.7	828.7	808.0	787.1	778.8	770.5	774.6
56°	853.7	853.7	849.6	832.9	808.0	787.1	762.1	741.3	728.8	733.0	733.0
57°	820.4	812.1	812.1	791.2	770.5	741.3	720.4	699.7	691.3	687.2	687.2
58°	778.8	774.6	770.5	749.6	728.8	703.8	682.9	662.2	649.7	649.7	645.4
59°	737.1	737.1	728.8	712.1	691.3	666.3	645.4	624.7	612.2	608.1	608.1
60°	699.7	703.8	691.3	674.6	658.0	628.8	603.8	587.2	574.7	570.6	570.6
61°	666.3	666.3	658.0	637.1	616.4	595.5	570.6	549.7	541.4	533.1	533.1
62°	637.1	628.8	624.7	603.8	583.0	558.0	537.3	516.4	503.9	495.6	499.8
63°	599.7	595.5	587.2	570.6	549.7	524.7	499.8	483.0	470.6	458.1	462.3
64°	570.6	566.3	553.9	537.3	516.4	491.5	466.4	449.7	441.4	428.9	424.8
65°	533.1	528.9	524.7	503.9	483.0	458.1	437.3	420.6	408.1	399.8	391.5
66°	499.8	503.9	495.6	478.9	454.0	433.1	403.9	387.3	379.0	366.4	358.1
67°	470.6	470.6	462.3	445.6	420.6	399.8	379.0	358.1	345.7	333.2	328.9
67.5°	454.0	454.0	445.6	424.8	408.1	383.2	362.3	345.7	328.9	320.6	312.3
68°	437.3	437.3	433.1	416.5	395.6	370.6	349.8	328.9	312.3	299.9	295.7
69°	408.1	412.3	403.9	387.3	366.4	341.5	320.6	304.0	287.3	274.9	266.6
70°	383.2	379.0	370.6	354.0	333.2	316.5	295.7	274.9	258.2	241.5	237.4
71°	349.8	349.8	341.5	328.9	308.2	287.3	266.6	249.8	233.2	212.3	208.2
72°	324.8	324.8	316.5	299.9	283.2	262.4	241.5	220.8	208.2	187.4	179.1
72.5°	308.2	312.3	304.0	287.3	270.7	245.7	229.1	212.3	191.6	174.9	166.6
73°	299.9	295.7	291.5	274.9	254.0	237.4	216.6	199.9	179.1	162.4	154.1



TEST NUMBER: P585093
 CATALOG NUMBER: HCC8W60D010MB-HM86080835-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	187.4	187.4	183.3	166.6	149.9	133.2	116.6	100.0	83.3	66.7	58.2
80°	129.1	133.2	124.9	116.6	104.2	87.4	70.8	58.2	41.6	33.3	25.0
82.5°	83.3	83.3	79.1	70.8	62.5	49.9	41.6	29.2	20.9	16.6	12.5
85°	41.6	45.8	41.6	37.5	29.2	25.0	20.9	12.5	8.3	4.2	4.2
87.5°	16.6	16.6	16.6	12.5	12.5	8.3	4.2	4.2	4.2	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: P585093

CATALOG NUMBER: HCC8W60D010MB-HM86080835-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3	3073.3
2.5°	3060.9	3060.9	3052.6	3048.4	3044.3	3040.1	3036.0	3031.7	3031.7	3036.0
5°	3036.0	3027.6	3011.0	3006.8	2994.2	2990.1	2981.8	2977.6	2981.8	2977.6
7.5°	2998.5	2981.8	2961.0	2952.6	2936.0	2927.7	2915.1	2915.1	2906.8	2911.0
10°	2948.4	2923.5	2898.5	2881.9	2869.3	2856.9	2848.6	2840.2	2836.0	2836.0
12.5°	2886.0	2856.9	2831.8	2806.9	2786.0	2777.7	2761.1	2761.1	2752.7	2748.6
15°	2815.2	2777.7	2748.6	2723.6	2706.9	2690.3	2677.7	2669.4	2661.1	2661.1
17.5°	2723.6	2690.3	2661.1	2631.9	2607.0	2594.5	2582.0	2569.5	2569.5	2561.1
20°	2623.6	2586.2	2561.1	2532.1	2511.2	2490.4	2473.7	2473.7	2465.4	2469.5
22.5°	2511.2	2465.4	2440.4	2419.6	2398.7	2382.1	2365.4	2365.4	2361.2	2357.1
25°	2386.3	2348.8	2319.6	2294.7	2282.1	2265.5	2261.4	2253.1	2248.8	2248.8
27.5°	2253.1	2223.9	2186.4	2173.9	2157.2	2148.9	2148.9	2144.7	2136.4	2140.6
30°	2111.4	2078.1	2057.3	2048.9	2032.3	2032.3	2028.1	2019.8	2019.8	2024.0
32.5°	1973.9	1940.7	1924.0	1919.8	1903.2	1903.2	1899.0	1903.2	1903.2	1907.4
35°	1824.1	1794.9	1790.8	1778.2	1774.0	1774.0	1774.0	1782.5	1790.8	1778.2
37.5°	1682.5	1661.6	1649.1	1645.0	1649.1	1649.1	1653.3	1665.9	1661.6	1657.4
40°	1536.7	1520.1	1511.8	1511.8	1520.1	1528.4	1528.4	1540.8	1545.0	1540.8
42.5°	1391.0	1378.4	1378.4	1382.6	1391.0	1395.2	1407.6	1420.1	1424.2	1428.4
45°	1253.5	1253.5	1253.5	1257.7	1261.8	1270.1	1286.8	1299.3	1303.5	1307.6
47.5°	1120.3	1116.1	1128.6	1132.8	1145.2	1149.4	1161.9	1178.5	1182.7	1186.8
50°	995.3	1003.7	1007.8	1020.3	1028.6	1028.6	1045.3	1053.6	1066.1	1066.1
52.5°	878.7	891.2	895.4	907.8	912.0	916.1	924.6	937.0	945.3	945.3
55°	774.6	778.8	787.1	791.2	803.8	808.0	816.3	820.4	832.9	828.7
56°	728.8	737.1	741.3	749.6	757.9	762.1	770.5	774.6	782.9	787.1
57°	687.2	691.3	703.8	708.0	716.3	716.3	720.4	733.0	733.0	737.1
58°	645.4	653.9	658.0	662.2	670.5	674.6	682.9	687.2	691.3	687.2
59°	608.1	612.2	616.4	616.4	624.7	624.7	637.1	645.4	649.7	649.7
60°	570.6	570.6	574.7	578.9	587.2	591.3	591.3	599.7	599.7	599.7
61°	533.1	533.1	537.3	541.4	545.6	545.6	553.9	553.9	558.0	562.2
62°	499.8	495.6	495.6	499.8	499.8	508.1	512.2	516.4	520.5	516.4
63°	462.3	458.1	458.1	458.1	458.1	466.4	466.4	470.6	478.9	474.7
64°	420.6	420.6	420.6	420.6	424.8	424.8	433.1	437.3	441.4	445.6
65°	391.5	383.2	379.0	379.0	383.2	387.3	391.5	395.6	399.8	399.8
66°	358.1	349.8	345.7	345.7	345.7	345.7	354.0	354.0	362.3	362.3
67°	320.6	312.3	308.2	304.0	304.0	304.0	316.5	312.3	312.3	312.3
67.5°	308.2	295.7	291.5	287.3	283.2	291.5	287.3	291.5	291.5	287.3
68°	291.5	283.2	274.9	266.6	266.6	266.6	270.7	274.9	270.7	266.6
69°	258.2	254.0	241.5	233.2	229.1	233.2	229.1	233.2	229.1	233.2
70°	229.1	216.6	204.0	199.9	195.7	195.7	195.7	191.6	195.7	191.6
71°	199.9	187.4	174.9	166.6	162.4	162.4	158.2	162.4	158.2	162.4
72°	170.7	158.2	141.6	133.2	133.2	133.2	133.2	129.1	133.2	129.1
72.5°	158.2	141.6	129.1	120.8	116.6	116.6	116.6	116.6	112.5	116.6
73°	145.8	129.1	112.5	108.3	108.3	108.3	104.2	100.0	104.2	104.2



TEST NUMBER: P585093
 CATALOG NUMBER: HCC8W60D010MB-HM86080835-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	49.9	37.5	33.3	33.3	33.3	33.3	33.3	33.3	29.2	29.2
80°	20.9	16.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
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°	270.7	270.7	262.4	249.8	229.1	208.2	191.6	174.9	154.1	133.2	124.9
75°	249.8	245.7	237.4	224.9	208.2	187.4	170.7	149.9	133.2	112.5	104.2

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°	120.8	100.0	91.6	83.3	83.3	83.3	79.1	79.1	79.1	83.3
75°	95.7	79.1	70.8	62.5	66.7	62.5	66.7	62.5	62.5	62.5

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

Scaled Data Report



(END OF REPORT)