

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: P593835

Luminaire Tested: **HCC8S55D010MW-HM82555850-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593835
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: HCC8S55D010MW-HM82555850-81RWWH
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

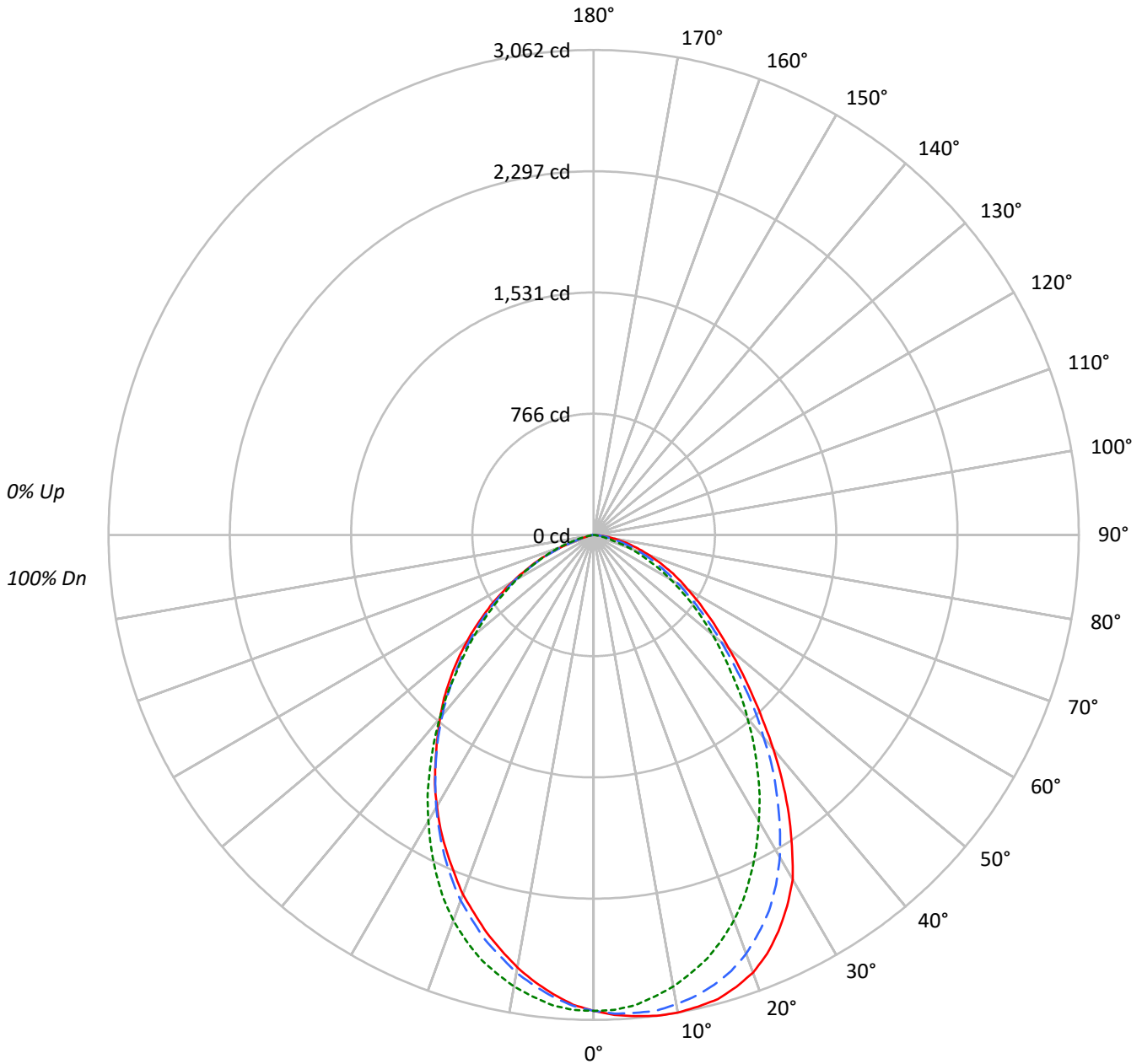
Lumens per Lamp: N/A
Luminaire Lumens: 5633.9 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 52
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: P593835
CATALOG NUMBER: HCC8S55D010MW-HM82555850-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P593835

CATALOG NUMBER: HCC8S55D010MW-HM82555850-81RWWH

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°	92669	92669	92669
5°	94410	92271	90126
10°	95884	90658	86834
15°	96848	88401	83070
20°	96480	84988	79242
25°	93937	80083	74816
30°	89462	74240	70466
35°	80784	67752	65456
40°	70980	60812	60651
45°	61266	53452	55763
50°	53327	46884	50012
55°	47289	40724	43563
60°	42190	34407	36165
65°	38029	27931	28529
70°	33783	20926	16887
75°	29118	12129	7280
80°	22411	4333	2166
85°	14400	1451	1451

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P593835

CATALOG NUMBER: HCC8S55D010MW-HM82555850-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.1	5.0
10°-20°	785.4	13.9
20°-30°	1110.8	19.7
30°-40°	1170.5	20.8
40°-50°	994.8	17.7
50°-60°	716.3	12.7
60°-70°	413.2	7.3
70°-80°	141.4	2.5
80°-90°	19.4	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°	2178.3	38.7
0°-40°	3348.7	59.4
0°-60°	5059.8	89.8
0°-90°	5633.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5633.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3005	3005	3005	3005	3005	
5°	3050	3030	2981	2928	2912	292
15°	3034	2940	2769	2647	2602	854
25°	2761	2618	2354	2232	2199	1266
35°	2146	2020	1800	1735	1739	1336
45°	1405	1340	1226	1234	1279	1091
55°	880	810	758	786	810	791
65°	521	448	383	375	391	518
75°	244	183	102	65	61	258
85°	41	24	4	4	4	55
90°	0	0	0	0	0	



TEST NUMBER: P593835

CATALOG NUMBER: HCC8S55D010MW-HM82555850-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2
2.5°	3033.7	3037.8	3033.7	3033.7	3029.6	3025.6	3021.5	3017.4	3009.3	3001.1	3001.1
5°	3050.0	3058.2	3050.0	3050.0	3037.8	3029.6	3021.5	3009.3	2993.1	2980.9	2980.9
7.5°	3062.2	3062.2	3062.2	3050.0	3041.9	3029.6	3009.3	2989.0	2968.6	2948.3	2940.1
10°	3062.2	3062.2	3058.2	3041.9	3033.7	3009.3	2989.0	2960.5	2932.0	2903.4	2895.3
12.5°	3050.0	3054.1	3045.9	3029.6	3009.3	2980.9	2952.3	2915.7	2883.1	2850.5	2834.2
15°	3033.7	3029.6	3021.5	3001.1	2976.8	2940.1	2911.6	2870.8	2826.0	2785.4	2769.1
17.5°	2993.1	2993.1	2980.9	2960.5	2927.9	2887.1	2842.3	2797.6	2748.7	2703.9	2683.5
20°	2940.1	2940.1	2923.8	2899.4	2866.8	2813.9	2765.0	2712.0	2655.0	2610.3	2589.9
22.5°	2862.7	2866.8	2846.4	2818.0	2781.3	2720.2	2671.3	2606.2	2549.2	2496.2	2480.0
25°	2760.9	2769.1	2748.7	2720.2	2671.3	2618.4	2557.3	2496.2	2431.1	2378.1	2353.7
27.5°	2642.9	2646.8	2626.6	2598.0	2549.2	2492.1	2431.1	2365.9	2304.9	2247.8	2223.4
30°	2512.5	2496.2	2488.0	2451.5	2398.5	2349.6	2280.4	2227.5	2162.3	2113.5	2085.0
32.5°	2329.2	2337.4	2312.9	2284.5	2243.8	2186.7	2129.8	2068.7	2007.5	1971.0	1950.6
35°	2146.0	2154.1	2141.9	2113.5	2068.7	2019.8	1962.7	1918.0	1865.0	1820.2	1799.8
37.5°	1954.7	1954.7	1946.5	1930.2	1897.6	1852.8	1795.9	1751.0	1706.2	1669.6	1657.3
40°	1763.3	1755.1	1751.0	1738.8	1710.3	1669.6	1632.9	1596.3	1551.5	1527.0	1510.7
42.5°	1575.9	1575.9	1567.8	1555.6	1527.0	1506.7	1470.0	1429.4	1396.8	1372.3	1372.3
45°	1404.9	1409.0	1396.8	1388.6	1372.3	1339.7	1307.1	1278.7	1250.2	1233.9	1225.7
47.5°	1254.3	1254.3	1242.0	1233.9	1217.6	1189.1	1160.5	1136.1	1115.7	1103.6	1099.5
50°	1111.6	1111.6	1111.6	1091.4	1071.0	1050.6	1030.3	1001.7	989.5	981.4	977.3
52.5°	989.5	985.4	985.4	969.1	948.9	924.4	904.0	879.6	867.4	859.2	863.3
55°	879.6	879.6	875.5	855.2	834.8	810.3	790.0	769.7	761.4	753.4	757.5
56°	834.8	834.8	830.7	814.4	790.0	769.7	745.2	724.9	712.6	716.7	716.7
57°	802.2	794.0	794.0	773.8	753.4	724.9	704.5	684.1	676.0	671.9	671.9
58°	761.4	757.5	753.4	733.0	712.6	688.2	667.8	647.4	635.2	635.2	631.2
59°	720.8	720.8	712.6	696.3	676.0	651.5	631.2	610.8	598.7	594.6	594.6
60°	684.1	688.2	676.0	659.7	643.4	614.9	590.5	574.2	562.0	557.9	557.9
61°	651.5	651.5	643.4	623.0	602.6	582.4	557.9	537.5	529.4	521.2	521.2
62°	623.0	614.9	610.8	590.5	570.1	545.7	525.3	504.9	492.7	484.6	488.6
63°	586.4	582.4	574.2	557.9	537.5	513.1	488.6	472.3	460.1	447.9	452.0
64°	557.9	553.8	541.6	525.3	504.9	480.5	456.0	439.7	431.6	419.5	415.4
65°	521.2	517.2	513.1	492.7	472.3	447.9	427.5	411.3	399.1	391.0	382.8
66°	488.6	492.7	484.6	468.3	443.8	423.6	395.0	378.7	370.6	358.4	350.2
67°	460.1	460.1	452.0	435.7	411.3	391.0	370.6	350.2	338.0	325.8	321.7
67.5°	443.8	443.8	435.7	415.4	399.1	374.7	354.3	338.0	321.7	313.5	305.4
68°	427.5	427.5	423.6	407.3	386.9	362.4	342.1	321.7	305.4	293.2	289.1
69°	399.1	403.2	395.0	378.7	358.4	333.9	313.5	297.2	280.9	268.7	260.7
70°	374.7	370.6	362.4	346.1	325.8	309.5	289.1	268.7	252.4	236.2	232.1
71°	342.1	342.1	333.9	321.7	301.3	280.9	260.7	244.4	228.1	207.7	203.6
72°	317.6	317.6	309.5	293.2	276.9	256.6	236.2	215.8	203.6	183.3	175.1
72.5°	301.3	305.4	297.2	280.9	264.6	240.3	224.0	207.7	187.3	171.0	162.9
73°	293.2	289.1	285.0	268.7	248.3	232.1	211.8	195.5	175.1	158.8	150.7



TEST NUMBER: P593835

CATALOG NUMBER: HCC8S55D010MW-HM82555850-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	183.3	183.3	179.2	162.9	146.6	130.3	114.0	97.7	81.5	65.2	57.0
80°	126.2	130.3	122.1	114.0	101.8	85.6	69.3	57.0	40.7	32.6	24.4
82.5°	81.5	81.5	77.4	69.3	61.1	48.9	40.7	28.5	20.4	16.3	12.2
85°	40.7	44.8	40.7	36.7	28.5	24.4	20.4	12.2	8.1	4.1	4.1
87.5°	16.3	16.3	16.3	12.2	12.2	8.1	4.1	4.1	4.1	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: P593835

CATALOG NUMBER: HCC8S55D010MW-HM82555850-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2	3005.2
2.5°	2993.1	2993.1	2984.8	2980.9	2976.8	2972.7	2968.6	2964.6	2964.6	2968.6
5°	2968.6	2960.5	2944.2	2940.1	2927.9	2923.8	2915.7	2911.6	2915.7	2911.6
7.5°	2932.0	2915.7	2895.3	2887.1	2870.8	2862.7	2850.5	2850.5	2842.3	2846.4
10°	2883.1	2858.6	2834.2	2818.0	2805.7	2793.5	2785.4	2777.2	2773.2	2773.2
12.5°	2821.9	2793.5	2769.1	2744.6	2724.3	2716.1	2699.8	2699.8	2691.7	2687.6
15°	2752.8	2716.1	2687.6	2663.1	2646.8	2630.6	2618.4	2610.3	2602.1	2602.1
17.5°	2663.1	2630.6	2602.1	2573.6	2549.2	2536.9	2524.7	2512.5	2512.5	2504.3
20°	2565.5	2528.8	2504.3	2475.8	2455.5	2435.2	2418.9	2418.9	2410.7	2414.8
22.5°	2455.5	2410.7	2386.3	2365.9	2345.5	2329.2	2312.9	2312.9	2309.0	2304.9
25°	2333.3	2296.7	2268.2	2243.8	2231.5	2215.2	2211.2	2203.0	2198.9	2198.9
27.5°	2203.0	2174.5	2137.8	2125.7	2109.4	2101.3	2101.3	2097.2	2089.0	2093.1
30°	2064.6	2032.0	2011.6	2003.5	1987.2	1987.2	1983.1	1974.9	1974.9	1979.0
32.5°	1930.2	1897.6	1881.3	1877.3	1861.0	1861.0	1856.9	1861.0	1861.0	1865.0
35°	1783.5	1755.1	1751.0	1738.8	1734.7	1734.7	1734.7	1742.9	1751.0	1738.8
37.5°	1645.1	1624.7	1612.6	1608.5	1612.6	1612.6	1616.7	1628.8	1624.7	1620.8
40°	1502.6	1486.3	1478.2	1478.2	1486.3	1494.5	1494.5	1506.7	1510.7	1506.7
42.5°	1360.1	1347.9	1347.9	1351.9	1360.1	1364.2	1376.4	1388.6	1392.7	1396.8
45°	1225.7	1225.7	1225.7	1229.8	1233.9	1242.0	1258.3	1270.6	1274.6	1278.7
47.5°	1095.4	1091.4	1103.6	1107.7	1119.8	1123.9	1136.1	1152.4	1156.5	1160.5
50°	973.2	981.4	985.4	997.7	1005.8	1005.8	1022.1	1030.3	1042.5	1042.5
52.5°	859.2	871.4	875.5	887.7	891.8	895.9	904.0	916.3	924.4	924.4
55°	757.5	761.4	769.7	773.8	785.9	790.0	798.1	802.2	814.4	810.3
56°	712.6	720.8	724.9	733.0	741.2	745.2	753.4	757.5	765.6	769.7
57°	671.9	676.0	688.2	692.3	700.4	700.4	704.5	716.7	716.7	720.8
58°	631.2	639.3	643.4	647.4	655.6	659.7	667.8	671.9	676.0	671.9
59°	594.6	598.7	602.6	602.6	610.8	610.8	623.0	631.2	635.2	635.2
60°	557.9	557.9	562.0	566.1	574.2	578.3	578.3	586.4	586.4	586.4
61°	521.2	521.2	525.3	529.4	533.5	533.5	541.6	541.6	545.7	549.8
62°	488.6	484.6	484.6	488.6	488.6	496.8	500.9	504.9	509.0	504.9
63°	452.0	447.9	447.9	447.9	447.9	456.0	456.0	460.1	468.3	464.2
64°	411.3	411.3	411.3	411.3	415.4	415.4	423.6	427.5	431.6	435.7
65°	382.8	374.7	370.6	370.6	374.7	378.7	382.8	386.9	391.0	391.0
66°	350.2	342.1	338.0	338.0	338.0	338.0	346.1	346.1	354.3	354.3
67°	313.5	305.4	301.3	297.2	297.2	297.2	309.5	305.4	305.4	305.4
67.5°	301.3	289.1	285.0	280.9	276.9	285.0	280.9	285.0	285.0	280.9
68°	285.0	276.9	268.7	260.7	260.7	260.7	264.6	268.7	264.6	260.7
69°	252.4	248.3	236.2	228.1	224.0	228.1	224.0	228.1	224.0	228.1
70°	224.0	211.8	199.6	195.5	191.4	191.4	191.4	187.3	191.4	187.3
71°	195.5	183.3	171.0	162.9	158.8	158.8	154.7	158.8	154.7	158.8
72°	167.0	154.7	138.4	130.3	130.3	130.3	130.3	126.2	130.3	126.2
72.5°	154.7	138.4	126.2	118.1	114.0	114.0	114.0	114.0	109.9	114.0
73°	142.5	126.2	109.9	105.8	105.8	105.8	101.8	97.7	101.8	101.8



TEST NUMBER: P593835
 CATALOG NUMBER: HCC8S55D010MW-HM82555850-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	48.9	36.7	32.6	32.6	32.6	32.6	32.6	32.6	28.5	28.5
80°	20.4	16.3	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
82.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
85°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



74°	264.6	264.6	256.6	244.4	224.0	203.6	187.3	171.0	150.7	130.3	122.1
75°	244.4	240.3	232.1	219.9	203.6	183.3	167.0	146.6	130.3	109.9	101.8

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°	118.1	97.7	89.5	81.5	81.5	81.5	77.4	77.4	77.4	81.5
75°	93.6	77.4	69.3	61.1	65.2	61.1	65.2	61.1	61.1	61.1

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

Scaled Data Report



(END OF REPORT)