

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: P585314

Luminaire Tested: **HCC8S80D010SL-HM86080940-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585314
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: HCC8S80D010SL-HM86080940-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

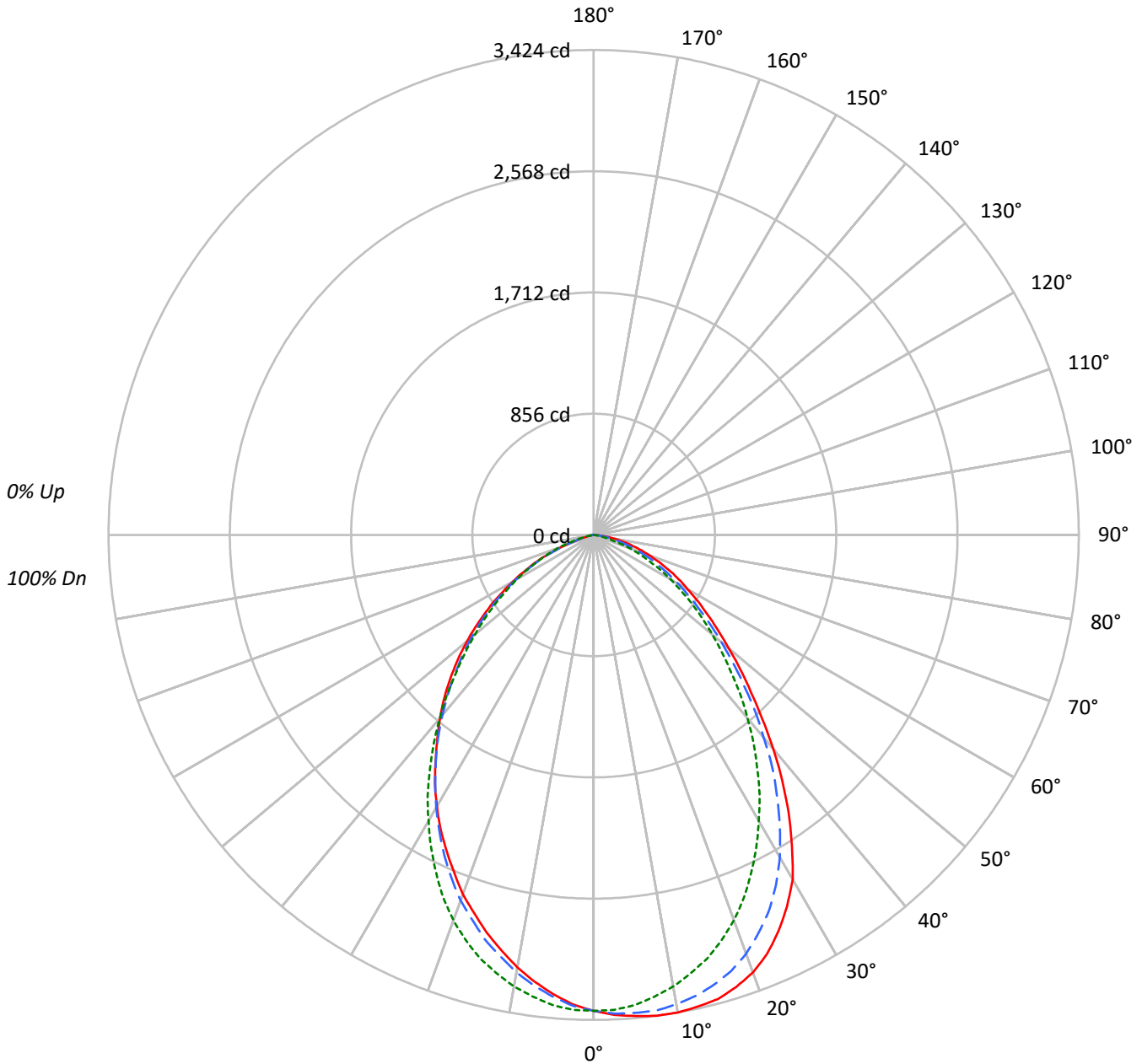
Lumens per Lamp: N/A
Luminaire Lumens: 6298.9 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 70
Input Voltage (V): NR
Input Current (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: P585314
CATALOG NUMBER: HCC8S80D010SL-HM86080940-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P585314

CATALOG NUMBER: HCC8S80D010SL-HM86080940-81RWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	103610	103610	103610
5°	105557	103158	100762
10°	107203	101360	97080
15°	108283	98834	92874
20°	107867	95020	88598
25°	105026	89534	83648
30°	100023	82999	78787
35°	90320	75755	73180
40°	79357	67993	67812
45°	68497	59762	62339
50°	59630	52420	55917
55°	52869	45525	48708
60°	47173	38465	40433
65°	42517	31222	31893
70°	37768	23405	18879
75°	32538	13558	8126
80°	25056	4848	2433
85°	16098	1592	1592



TEST NUMBER: P585314
 CATALOG NUMBER: HCC8S80D010SL-HM86080940-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.4	5.0
10°-20°	878.1	13.9
20°-30°	1241.9	19.7
30°-40°	1308.6	20.8
40°-50°	1112.2	17.7
50°-60°	800.9	12.7
60°-70°	462.0	7.3
70°-80°	158.1	2.5
80°-90°	21.7	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°	2435.4	38.7
0°-40°	3744.0	59.4
0°-60°	5657.1	89.8
0°-90°	6298.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6298.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3360	3360	3360	3360	3360	
5°	3410	3387	3333	3273	3255	326
15°	3392	3287	3096	2959	2909	955
25°	3087	2927	2632	2495	2458	1416
35°	2399	2258	2012	1940	1944	1494
45°	1571	1498	1370	1380	1430	1220
55°	983	906	847	879	906	885
65°	583	501	428	419	437	580
75°	273	205	114	73	68	288
85°	46	27	4	4	4	61
90°	0	0	0	0	0	



TEST NUMBER: P585314

CATALOG NUMBER: HCC8S80D010SL-HM86080940-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0
2.5°	3391.9	3396.4	3391.9	3391.9	3387.3	3382.7	3378.2	3373.7	3364.5	3355.5	3355.5
5°	3410.1	3419.2	3410.1	3410.1	3396.4	3387.3	3378.2	3364.5	3346.3	3332.6	3332.6
7.5°	3423.7	3423.7	3423.7	3410.1	3401.0	3387.3	3364.5	3341.8	3319.0	3296.3	3287.1
10°	3423.7	3423.7	3419.2	3401.0	3391.9	3364.5	3341.8	3309.9	3278.1	3246.2	3237.1
12.5°	3410.1	3414.6	3405.5	3387.3	3364.5	3332.6	3300.8	3259.9	3223.4	3187.0	3168.8
15°	3391.9	3387.3	3378.2	3355.5	3328.1	3287.1	3255.2	3209.7	3159.6	3114.1	3095.9
17.5°	3346.3	3346.3	3332.6	3309.9	3273.4	3227.9	3177.8	3127.8	3073.2	3023.0	3000.3
20°	3287.1	3287.1	3268.9	3241.6	3205.2	3146.0	3091.4	3032.2	2968.5	2918.4	2895.6
22.5°	3200.7	3205.2	3182.5	3150.6	3109.6	3041.3	2986.6	2913.8	2850.0	2790.9	2772.6
25°	3086.8	3095.9	3073.2	3041.3	2986.6	2927.4	2859.2	2790.9	2718.1	2658.8	2631.5
27.5°	2954.8	2959.3	2936.6	2904.7	2850.0	2786.3	2718.1	2645.2	2576.9	2513.2	2485.8
30°	2809.1	2790.9	2781.8	2740.8	2681.7	2627.0	2549.6	2490.4	2417.6	2362.9	2331.0
32.5°	2604.3	2613.3	2586.0	2554.1	2508.6	2444.8	2381.1	2312.8	2244.6	2203.6	2180.9
35°	2399.3	2408.4	2394.8	2362.9	2312.8	2258.1	2194.4	2144.4	2085.1	2035.1	2012.4
37.5°	2185.4	2185.4	2176.2	2158.0	2121.7	2071.6	2007.7	1957.7	1907.6	1866.6	1853.1
40°	1971.4	1962.3	1957.7	1944.0	1912.1	1866.6	1825.7	1784.7	1734.6	1707.3	1689.1
42.5°	1762.0	1762.0	1752.8	1739.2	1707.3	1684.6	1643.6	1598.0	1561.6	1534.3	1534.3
45°	1570.7	1575.3	1561.6	1552.5	1534.3	1497.9	1461.4	1429.5	1397.7	1379.5	1370.4
47.5°	1402.3	1402.3	1388.6	1379.5	1361.3	1329.4	1297.6	1270.2	1247.5	1233.8	1229.3
50°	1243.0	1243.0	1243.0	1220.2	1197.4	1174.6	1151.9	1120.0	1106.4	1097.2	1092.7
52.5°	1106.4	1101.7	1101.7	1083.5	1060.8	1033.5	1010.8	983.4	969.7	960.6	965.2
55°	983.4	983.4	978.9	956.1	933.4	906.0	883.3	860.5	851.3	842.3	846.8
56°	933.4	933.4	928.7	910.5	883.3	860.5	833.1	810.4	796.7	801.3	801.3
57°	896.9	887.8	887.8	865.0	842.3	810.4	787.6	764.9	755.7	751.2	751.2
58°	851.3	846.8	842.3	819.5	796.7	769.4	746.7	723.9	710.2	710.2	705.7
59°	805.9	805.9	796.7	778.6	755.7	728.5	705.7	683.0	669.3	664.8	664.8
60°	764.9	769.4	755.7	737.5	719.3	687.5	660.1	641.9	628.3	623.7	623.7
61°	728.5	728.5	719.3	696.6	673.8	651.1	623.7	600.9	591.9	582.7	582.7
62°	696.6	687.5	683.0	660.1	637.4	610.1	587.4	564.5	550.9	541.8	546.3
63°	655.6	651.1	641.9	623.7	600.9	573.7	546.3	528.2	514.5	500.8	505.3
64°	623.7	619.2	605.6	587.4	564.5	537.2	510.0	491.7	482.6	468.9	464.4
65°	582.7	578.2	573.7	550.9	528.2	500.8	478.1	459.8	446.2	437.1	427.9
66°	546.3	550.9	541.8	523.5	496.3	473.5	441.6	423.4	414.4	400.7	391.5
67°	514.5	514.5	505.3	487.1	459.8	437.1	414.4	391.5	377.9	364.2	359.7
67.5°	496.3	496.3	487.1	464.4	446.2	418.9	396.1	377.9	359.7	350.5	341.5
68°	478.1	478.1	473.5	455.3	432.6	405.2	382.4	359.7	341.5	327.8	323.3
69°	446.2	450.7	441.6	423.4	400.7	373.3	350.5	332.3	314.1	300.5	291.4
70°	418.9	414.4	405.2	387.0	364.2	346.0	323.3	300.5	282.3	264.1	259.6
71°	382.4	382.4	373.3	359.7	337.0	314.1	291.4	273.1	254.9	232.2	227.7
72°	355.2	355.2	346.0	327.8	309.6	286.8	264.1	241.2	227.7	204.9	195.8
72.5°	337.0	341.5	332.3	314.1	295.9	268.6	250.4	232.2	209.4	191.2	182.2
73°	327.8	323.3	318.7	300.5	277.8	259.6	236.7	218.5	195.8	177.5	168.5



TEST NUMBER: P585314
 CATALOG NUMBER: HCC8S80D010SL-HM86080940-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	204.9	204.9	200.3	182.2	163.8	145.7	127.5	109.3	91.1	72.9	63.7
80°	141.1	145.7	136.6	127.5	113.8	95.6	77.4	63.7	45.5	36.4	27.3
82.5°	91.1	91.1	86.6	77.4	68.2	54.6	45.5	31.9	22.7	18.2	13.7
85°	45.5	50.1	45.5	41.0	31.9	27.3	22.7	13.7	9.2	4.5	4.5
87.5°	18.2	18.2	18.2	13.7	13.7	9.2	4.5	4.5	4.5	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: P585314

CATALOG NUMBER: HCC8S80D010SL-HM86080940-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0
2.5°	3346.3	3346.3	3337.2	3332.6	3328.1	3323.6	3319.0	3314.5	3314.5	3319.0
5°	3319.0	3309.9	3291.7	3287.1	3273.4	3268.9	3259.9	3255.2	3259.9	3255.2
7.5°	3278.1	3259.9	3237.1	3227.9	3209.7	3200.7	3187.0	3187.0	3177.8	3182.5
10°	3223.4	3196.0	3168.8	3150.6	3136.9	3123.3	3114.1	3105.1	3100.4	3100.4
12.5°	3155.1	3123.3	3095.9	3068.6	3045.9	3036.7	3018.5	3018.5	3009.5	3004.8
15°	3077.7	3036.7	3004.8	2977.5	2959.3	2941.1	2927.4	2918.4	2909.2	2909.2
17.5°	2977.5	2941.1	2909.2	2877.4	2850.0	2836.4	2822.8	2809.1	2809.1	2800.0
20°	2868.2	2827.3	2800.0	2768.1	2745.4	2722.6	2704.4	2704.4	2695.2	2699.9
22.5°	2745.4	2695.2	2668.0	2645.2	2622.5	2604.3	2586.0	2586.0	2581.4	2576.9
25°	2608.8	2567.8	2535.9	2508.6	2495.0	2476.7	2472.2	2463.1	2458.5	2458.5
27.5°	2463.1	2431.3	2390.2	2376.6	2358.4	2349.2	2349.2	2344.7	2335.6	2340.2
30°	2308.3	2271.8	2249.1	2240.0	2221.8	2221.8	2217.2	2208.1	2208.1	2212.7
32.5°	2158.0	2121.7	2103.5	2098.8	2080.6	2080.6	2076.1	2080.6	2080.6	2085.1
35°	1994.2	1962.3	1957.7	1944.0	1939.5	1939.5	1939.5	1948.7	1957.7	1944.0
37.5°	1839.4	1816.6	1802.9	1798.4	1802.9	1802.9	1807.5	1821.1	1816.6	1812.0
40°	1679.9	1661.7	1652.7	1652.7	1661.7	1670.9	1670.9	1684.6	1689.1	1684.6
42.5°	1520.6	1506.9	1506.9	1511.6	1520.6	1525.2	1538.8	1552.5	1557.1	1561.6
45°	1370.4	1370.4	1370.4	1375.0	1379.5	1388.6	1406.8	1420.5	1425.0	1429.5
47.5°	1224.7	1220.2	1233.8	1238.3	1252.0	1256.5	1270.2	1288.4	1293.0	1297.6
50°	1088.2	1097.2	1101.7	1115.4	1124.6	1124.6	1142.7	1151.9	1165.6	1165.6
52.5°	960.6	974.3	978.9	992.5	997.1	1001.6	1010.8	1024.4	1033.5	1033.5
55°	846.8	851.3	860.5	865.0	878.7	883.3	892.3	896.9	910.5	906.0
56°	796.7	805.9	810.4	819.5	828.6	833.1	842.3	846.8	856.0	860.5
57°	751.2	755.7	769.4	774.0	783.1	783.1	787.6	801.3	801.3	805.9
58°	705.7	714.8	719.3	723.9	733.0	737.5	746.7	751.2	755.7	751.2
59°	664.8	669.3	673.8	673.8	683.0	683.0	696.6	705.7	710.2	710.2
60°	623.7	623.7	628.3	632.8	641.9	646.5	646.5	655.6	655.6	655.6
61°	582.7	582.7	587.4	591.9	596.4	596.4	605.6	605.6	610.1	614.6
62°	546.3	541.8	541.8	546.3	546.3	555.5	560.0	564.5	569.1	564.5
63°	505.3	500.8	500.8	500.8	500.8	510.0	510.0	514.5	523.5	519.0
64°	459.8	459.8	459.8	459.8	464.4	464.4	473.5	478.1	482.6	487.1
65°	427.9	418.9	414.4	414.4	418.9	423.4	427.9	432.6	437.1	437.1
66°	391.5	382.4	377.9	377.9	377.9	377.9	387.0	387.0	396.1	396.1
67°	350.5	341.5	337.0	332.3	332.3	332.3	346.0	341.5	341.5	341.5
67.5°	337.0	323.3	318.7	314.1	309.6	318.7	314.1	318.7	318.7	314.1
68°	318.7	309.6	300.5	291.4	291.4	291.4	295.9	300.5	295.9	291.4
69°	282.3	277.8	264.1	254.9	250.4	254.9	250.4	254.9	250.4	254.9
70°	250.4	236.7	223.1	218.5	214.0	214.0	214.0	209.4	214.0	209.4
71°	218.5	204.9	191.2	182.2	177.5	177.5	173.0	177.5	173.0	177.5
72°	186.7	173.0	154.8	145.7	145.7	145.7	145.7	141.1	145.7	141.1
72.5°	173.0	154.8	141.1	132.0	127.5	127.5	127.5	127.5	122.9	127.5
73°	159.3	141.1	122.9	118.4	118.4	118.4	113.8	109.3	113.8	113.8



TEST NUMBER: P585314
CATALOG NUMBER: HCC8S80D010SL-HM86080940-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	54.6	41.0	36.4	36.4	36.4	36.4	36.4	36.4	31.9	31.9
80°	22.7	18.2	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
82.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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°	295.9	295.9	286.8	273.1	250.4	227.7	209.4	191.2	168.5	145.7	136.6
75°	273.1	268.6	259.6	245.9	227.7	204.9	186.7	163.8	145.7	122.9	113.8

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°	132.0	109.3	100.1	91.1	91.1	91.1	86.6	86.6	86.6	91.1
75°	104.8	86.6	77.4	68.2	72.9	68.2	72.9	68.2	68.2	68.2

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

Scaled Data Report



(END OF REPORT)