

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: P593903

Luminaire Tested: **HCC8W80D010MW-HM86080850-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593903
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: HCC8W80D010MW-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

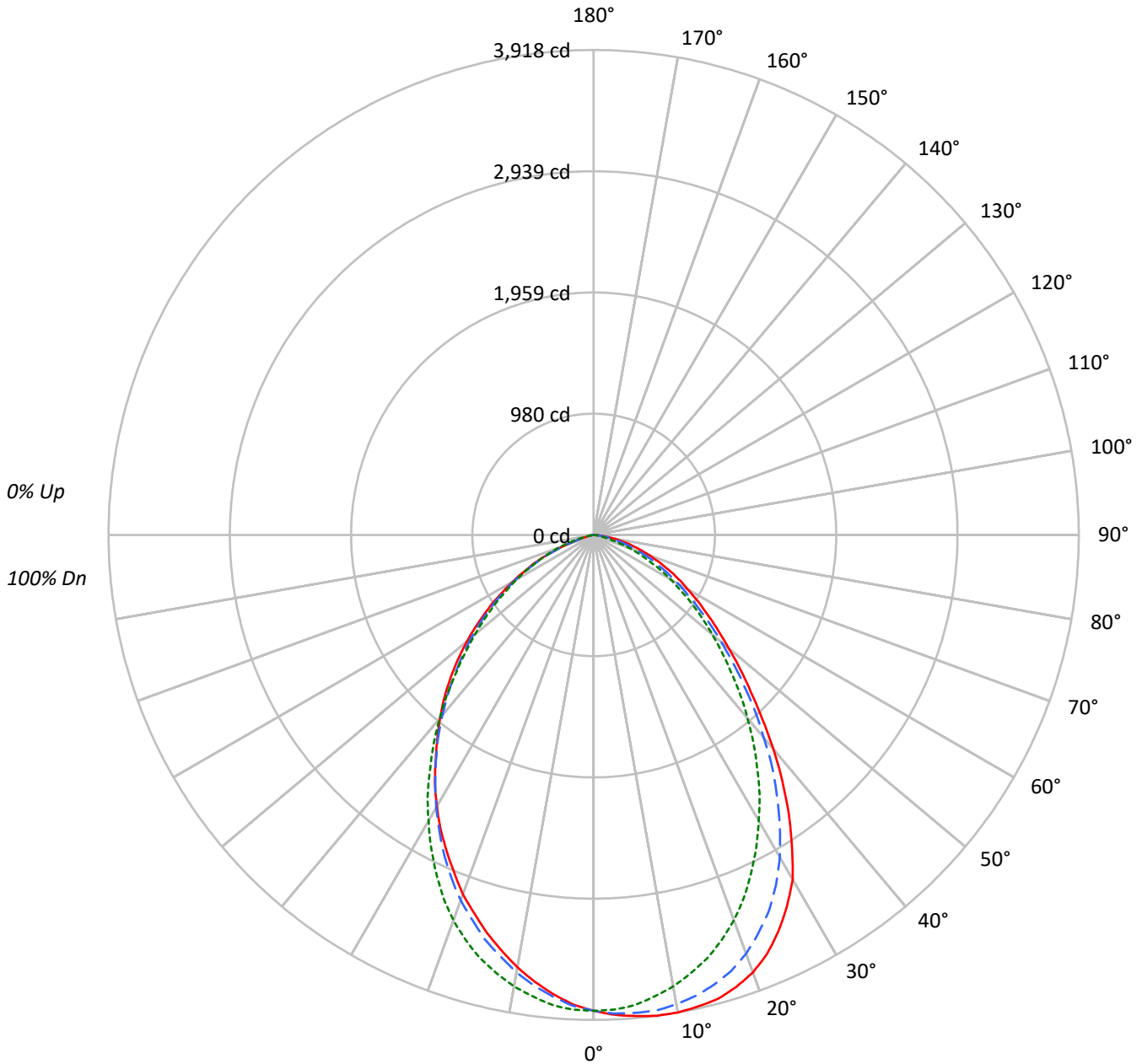
Lumens per Lamp: N/A
Luminaire Lumens: 7207.4 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P593903
CATALOG NUMBER: HCC8W80D010MW-HM86080850-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P593903

CATALOG NUMBER: HCC8W80D010MW-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								
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77								
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67								
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59								
5	81	70	62	56	79	69	62	56	67	60	55	65	59	55	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47								
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35								
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	118553	118553	118553
5°	120780	118040	115298
10°	122665	115980	111083
15°	123897	113088	106269
20°	123428	108727	101376
25°	120173	102447	95717
30°	114447	94974	90153
35°	103348	86680	83739
40°	90801	77799	77589
45°	78379	68383	71336
50°	68227	59976	63977
55°	60498	52089	55735
60°	53976	44022	46261
65°	48653	35731	36490
70°	43213	26768	21602
75°	37244	15512	9305
80°	28679	5558	2770
85°	18433	1840	1840

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P593903

CATALOG NUMBER: HCC8W80D010MW-HM86080850-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.9	5.0
10°-20°	1004.7	13.9
20°-30°	1421.0	19.7
30°-40°	1497.4	20.8
40°-50°	1272.6	17.7
50°-60°	916.4	12.7
60°-70°	528.6	7.3
70°-80°	180.9	2.5
80°-90°	24.9	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°	2786.6	38.7
0°-40°	4284.0	59.4
0°-60°	6473.0	89.8
0°-90°	7207.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7207.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3845	3845	3845	3845	3845	
5°	3902	3876	3813	3746	3725	373
15°	3881	3761	3542	3386	3329	1093
25°	3532	3350	3011	2855	2813	1620
35°	2745	2584	2303	2219	2224	1710
45°	1797	1714	1568	1578	1636	1396
55°	1125	1037	969	1005	1037	1013
65°	667	573	490	479	500	663
75°	313	234	130	83	78	330
85°	52	31	5	5	5	70
90°	0	0	0	0	0	



TEST NUMBER: P593903

CATALOG NUMBER: HCC8W80D010MW-HM86080850-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3844.6	3844.6	3844.6	3844.6	3844.6	3844.6	3844.6	3844.6	3844.6	3844.6	3844.6
2.5°	3881.0	3886.2	3881.0	3881.0	3875.9	3870.7	3865.4	3860.2	3849.7	3839.4	3839.4
5°	3901.9	3912.3	3901.9	3901.9	3886.2	3875.9	3865.4	3849.7	3828.9	3813.4	3813.4
7.5°	3917.5	3917.5	3917.5	3901.9	3891.5	3875.9	3849.7	3823.7	3797.7	3771.6	3761.3
10°	3917.5	3917.5	3912.3	3891.5	3881.0	3849.7	3823.7	3787.3	3750.8	3714.3	3704.0
12.5°	3901.9	3907.1	3896.7	3875.9	3849.7	3813.4	3776.9	3730.0	3688.3	3646.7	3625.7
15°	3881.0	3875.9	3865.4	3839.4	3808.1	3761.3	3724.8	3672.7	3615.4	3563.3	3542.4
17.5°	3828.9	3828.9	3813.4	3787.3	3745.6	3693.5	3636.2	3578.9	3516.3	3459.0	3433.0
20°	3761.3	3761.3	3740.4	3709.1	3667.5	3599.7	3537.3	3469.5	3396.6	3339.3	3313.3
22.5°	3662.2	3667.5	3641.4	3604.9	3558.1	3480.0	3417.4	3334.1	3261.1	3193.4	3172.6
25°	3532.0	3542.4	3516.3	3480.0	3417.4	3349.7	3271.5	3193.4	3110.1	3042.3	3011.0
27.5°	3380.9	3386.2	3360.1	3323.6	3261.1	3188.2	3110.1	3026.7	2948.6	2875.6	2844.3
30°	3214.2	3193.4	3183.0	3136.1	3068.3	3005.9	2917.3	2849.6	2766.2	2703.7	2667.3
32.5°	2979.9	2990.2	2958.9	2922.6	2870.4	2797.5	2724.6	2646.4	2568.2	2521.4	2495.4
35°	2745.4	2755.9	2740.2	2703.7	2646.4	2583.9	2510.9	2453.6	2386.0	2328.7	2302.6
37.5°	2500.6	2500.6	2490.1	2469.3	2427.6	2370.3	2297.4	2240.1	2182.8	2135.9	2120.2
40°	2255.7	2245.3	2240.1	2224.5	2188.0	2135.9	2089.0	2042.1	1984.8	1953.5	1932.7
42.5°	2016.1	2016.1	2005.6	1990.0	1953.5	1927.5	1880.6	1828.6	1786.8	1755.6	1755.6
45°	1797.3	1802.5	1786.8	1776.5	1755.6	1713.9	1672.2	1635.8	1599.3	1578.5	1568.1
47.5°	1604.6	1604.6	1588.9	1578.5	1557.6	1521.2	1484.7	1453.4	1427.4	1411.8	1406.6
50°	1422.2	1422.2	1422.2	1396.1	1370.1	1344.0	1318.0	1281.5	1265.9	1255.5	1250.2
52.5°	1265.9	1260.7	1260.7	1239.9	1213.9	1182.6	1156.5	1125.3	1109.6	1099.2	1104.5
55°	1125.3	1125.3	1120.0	1094.0	1068.0	1036.7	1010.6	984.6	974.1	963.8	968.9
56°	1068.0	1068.0	1062.7	1041.9	1010.6	984.6	953.3	927.3	911.6	916.8	916.8
57°	1026.2	1015.9	1015.9	989.8	963.8	927.3	901.3	875.2	864.8	859.5	859.5
58°	974.1	968.9	963.8	937.8	911.6	880.5	854.3	828.3	812.7	812.7	807.4
59°	922.1	922.1	911.6	890.8	864.8	833.5	807.4	781.4	765.8	760.6	760.6
60°	875.2	880.5	864.8	844.0	823.1	786.6	755.4	734.6	718.9	713.8	713.8
61°	833.5	833.5	823.1	797.1	770.9	744.9	713.8	687.6	677.3	666.8	666.8
62°	797.1	786.6	781.4	755.4	729.3	698.1	672.0	646.0	630.3	619.9	625.2
63°	750.1	744.9	734.6	713.8	687.6	656.4	625.2	604.2	588.7	573.1	578.2
64°	713.8	708.5	692.8	672.0	646.0	614.7	583.4	562.6	552.2	536.6	531.4
65°	666.8	661.6	656.4	630.3	604.2	573.1	546.9	526.1	510.6	500.1	489.7
66°	625.2	630.3	619.9	599.1	567.9	541.8	505.3	484.5	474.1	458.5	448.0
67°	588.7	588.7	578.2	557.4	526.1	500.1	474.1	448.0	432.4	416.7	411.5
67.5°	567.9	567.9	557.4	531.4	510.6	479.3	453.2	432.4	411.5	401.2	390.7
68°	546.9	546.9	541.8	520.9	494.9	463.6	437.6	411.5	390.7	375.1	369.9
69°	510.6	515.8	505.3	484.5	458.5	427.2	401.2	380.2	359.4	343.9	333.4
70°	479.3	474.1	463.6	442.8	416.7	395.9	369.9	343.9	322.9	302.1	296.9
71°	437.6	437.6	427.2	411.5	385.5	359.4	333.4	312.6	291.8	265.7	260.5
72°	406.3	406.3	395.9	375.1	354.2	328.2	302.1	276.1	260.5	234.5	224.0
72.5°	385.5	390.7	380.2	359.4	338.6	307.4	286.5	265.7	239.6	218.8	208.4
73°	375.1	369.9	364.7	343.9	317.8	296.9	270.9	250.0	224.0	203.2	192.7



TEST NUMBER: P593903
 CATALOG NUMBER: HCC8W80D010MW-HM86080850-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	234.5	234.5	229.2	208.4	187.5	166.7	145.9	125.1	104.2	83.3	72.9
80°	161.5	166.7	156.2	145.9	130.2	109.4	88.6	72.9	52.1	41.7	31.3
82.5°	104.2	104.2	98.9	88.6	78.1	62.5	52.1	36.5	26.0	20.8	15.6
85°	52.1	57.3	52.1	46.8	36.5	31.3	26.0	15.6	10.5	5.2	5.2
87.5°	20.8	20.8	20.8	15.6	15.6	10.5	5.2	5.2	5.2	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



TEST NUMBER: P593903

CATALOG NUMBER: HCC8W80D010MW-HM86080850-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3844.6	3844.6	3844.6	3844.6	3844.6	3844.6	3844.6	3844.6	3844.6	3844.6
2.5°	3828.9	3828.9	3818.6	3813.4	3808.1	3802.9	3797.7	3792.6	3792.6	3797.7
5°	3797.7	3787.3	3766.4	3761.3	3745.6	3740.4	3730.0	3724.8	3730.0	3724.8
7.5°	3750.8	3730.0	3704.0	3693.5	3672.7	3662.2	3646.7	3646.7	3636.2	3641.4
10°	3688.3	3657.0	3625.7	3604.9	3589.4	3573.7	3563.3	3552.9	3547.6	3547.6
12.5°	3610.2	3573.7	3542.4	3511.2	3485.1	3474.7	3453.9	3453.9	3443.5	3438.2
15°	3521.6	3474.7	3438.2	3407.0	3386.2	3365.3	3349.7	3339.3	3328.8	3328.8
17.5°	3407.0	3365.3	3328.8	3292.3	3261.1	3245.5	3229.9	3214.2	3214.2	3203.9
20°	3282.0	3235.0	3203.9	3167.4	3141.3	3115.3	3094.4	3094.4	3084.0	3089.3
22.5°	3141.3	3084.0	3052.8	3026.7	3000.7	2979.9	2958.9	2958.9	2953.7	2948.6
25°	2985.0	2938.1	2901.6	2870.4	2854.8	2834.0	2828.7	2818.3	2813.2	2813.2
27.5°	2818.3	2781.9	2734.9	2719.4	2698.6	2688.1	2688.1	2682.9	2672.5	2677.6
30°	2641.2	2599.5	2573.5	2563.0	2542.2	2542.2	2537.0	2526.6	2526.6	2531.9
32.5°	2469.3	2427.6	2406.8	2401.5	2380.7	2380.7	2375.5	2380.7	2380.7	2386.0
35°	2281.7	2245.3	2240.1	2224.5	2219.3	2219.3	2219.3	2229.6	2240.1	2224.5
37.5°	2104.6	2078.6	2062.9	2057.7	2062.9	2062.9	2068.1	2083.8	2078.6	2073.4
40°	1922.3	1901.4	1891.0	1891.0	1901.4	1911.9	1911.9	1927.5	1932.7	1927.5
42.5°	1740.0	1724.3	1724.3	1729.5	1740.0	1745.2	1760.8	1776.5	1781.6	1786.8
45°	1568.1	1568.1	1568.1	1573.3	1578.5	1588.9	1609.7	1625.4	1630.6	1635.8
47.5°	1401.4	1396.1	1411.8	1416.9	1432.6	1437.9	1453.4	1474.2	1479.5	1484.7
50°	1245.1	1255.5	1260.7	1276.3	1286.7	1286.7	1307.5	1318.0	1333.6	1333.6
52.5°	1099.2	1114.8	1120.0	1135.6	1140.8	1146.1	1156.5	1172.1	1182.6	1182.6
55°	968.9	974.1	984.6	989.8	1005.4	1010.6	1021.1	1026.2	1041.9	1036.7
56°	911.6	922.1	927.3	937.8	948.1	953.3	963.8	968.9	979.4	984.6
57°	859.5	864.8	880.5	885.6	896.0	896.0	901.3	916.8	916.8	922.1
58°	807.4	817.9	823.1	828.3	838.7	844.0	854.3	859.5	864.8	859.5
59°	760.6	765.8	770.9	770.9	781.4	781.4	797.1	807.4	812.7	812.7
60°	713.8	713.8	718.9	724.1	734.6	739.8	739.8	750.1	750.1	750.1
61°	666.8	666.8	672.0	677.3	682.5	682.5	692.8	692.8	698.1	703.3
62°	625.2	619.9	619.9	625.2	625.2	635.5	640.8	646.0	651.2	646.0
63°	578.2	573.1	573.1	573.1	573.1	583.4	583.4	588.7	599.1	593.9
64°	526.1	526.1	526.1	526.1	531.4	531.4	541.8	546.9	552.2	557.4
65°	489.7	479.3	474.1	474.1	479.3	484.5	489.7	494.9	500.1	500.1
66°	448.0	437.6	432.4	432.4	432.4	432.4	442.8	442.8	453.2	453.2
67°	401.2	390.7	385.5	380.2	380.2	380.2	395.9	390.7	390.7	390.7
67.5°	385.5	369.9	364.7	359.4	354.2	364.7	359.4	364.7	364.7	359.4
68°	364.7	354.2	343.9	333.4	333.4	333.4	338.6	343.9	338.6	333.4
69°	322.9	317.8	302.1	291.8	286.5	291.8	286.5	291.8	286.5	291.8
70°	286.5	270.9	255.3	250.0	244.8	244.8	244.8	239.6	244.8	239.6
71°	250.0	234.5	218.8	208.4	203.2	203.2	198.0	203.2	198.0	203.2
72°	213.5	198.0	177.2	166.7	166.7	166.7	166.7	161.5	166.7	161.5
72.5°	198.0	177.2	161.5	151.1	145.9	145.9	145.9	145.9	140.7	145.9
73°	182.3	161.5	140.7	135.4	135.4	135.4	130.2	125.1	130.2	130.2



TEST NUMBER: P593903
CATALOG NUMBER: HCC8W80D010MW-HM86080850-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	62.5	46.8	41.7	41.7	41.7	41.7	41.7	41.7	36.5	36.5
80°	26.0	20.8	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
82.5°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
85°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
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°	338.6	338.6	328.2	312.6	286.5	260.5	239.6	218.8	192.7	166.7	156.2
75°	312.6	307.4	296.9	281.3	260.5	234.5	213.5	187.5	166.7	140.7	130.2

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°	151.1	125.1	114.6	104.2	104.2	104.2	98.9	98.9	98.9	104.2
75°	119.9	98.9	88.6	78.1	83.3	78.1	83.3	78.1	78.1	78.1

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

Scaled Data Report



(END OF REPORT)