

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: P585297

Luminaire Tested: **HCC8S80D010MB-HM86080935-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585297
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: HCC8S80D010MB-HM86080935-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

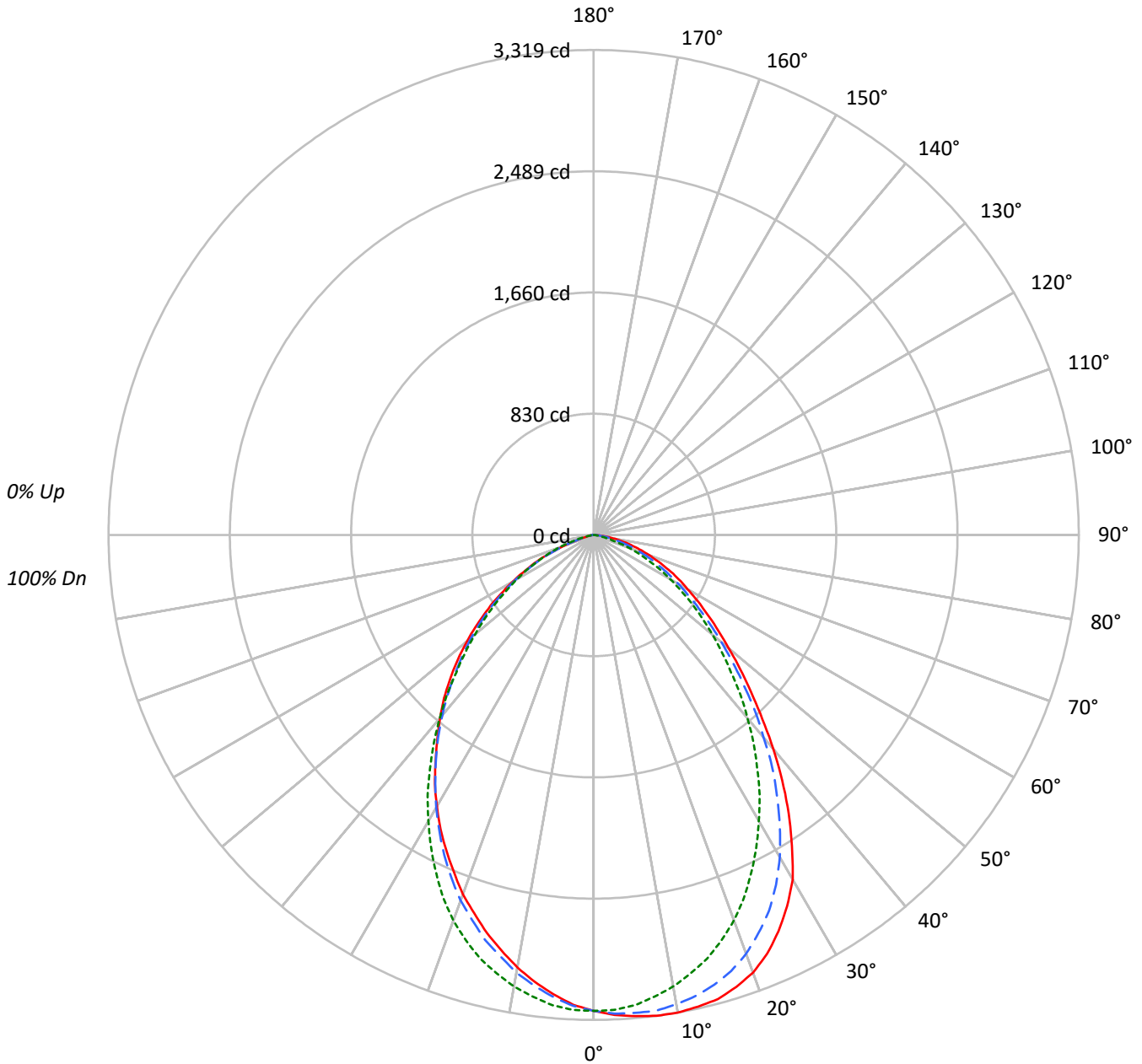
Lumens per Lamp: N/A
Luminaire Lumens: 6106.6 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P585297
CATALOG NUMBER: HCC8S80D010MB-HM86080935-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P585297

CATALOG NUMBER: HCC8S80D010MB-HM86080935-81RWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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°	100446	100446	100446
5°	102334	100013	97691
10°	103931	98263	94118
15°	104976	95817	90039
20°	104579	92119	85894
25°	101821	86802	81096
30°	96971	80468	76384
35°	87568	73440	70948
40°	76933	65916	65739
45°	66408	57939	60438
50°	57802	50818	54204
55°	51251	44138	47219
60°	45736	37293	39199
65°	41225	30280	30923
70°	36605	22684	18311
75°	31549	13141	7887
80°	24311	4706	2344
85°	15603	1557	1557



TEST NUMBER: P585297
 CATALOG NUMBER: HCC8S80D010MB-HM86080935-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.8	5.0
10°-20°	851.3	13.9
20°-30°	1204.0	19.7
30°-40°	1268.7	20.8
40°-50°	1078.2	17.7
50°-60°	776.4	12.7
60°-70°	447.9	7.3
70°-80°	153.2	2.5
80°-90°	21.0	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°	2361.1	38.7
0°-40°	3629.8	59.4
0°-60°	5484.4	89.8
0°-90°	6106.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6106.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3257	3257	3257	3257	3257	
5°	3306	3284	3231	3174	3156	316
15°	3288	3187	3001	2869	2820	926
25°	2993	2838	2551	2419	2384	1372
35°	2326	2189	1951	1880	1885	1449
45°	1523	1452	1329	1337	1386	1183
55°	953	878	821	852	878	858
65°	565	486	415	406	424	562
75°	265	199	110	71	66	279
85°	44	26	4	4	4	59
90°	0	0	0	0	0	



TEST NUMBER: P585297

CATALOG NUMBER: HCC8S80D010MB-HM86080935-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4
2.5°	3288.3	3292.7	3288.3	3288.3	3283.9	3279.5	3275.1	3270.7	3261.9	3253.0	3253.0
5°	3306.0	3314.8	3306.0	3306.0	3292.7	3283.9	3275.1	3261.9	3244.2	3231.0	3231.0
7.5°	3319.2	3319.2	3319.2	3306.0	3297.2	3283.9	3261.9	3239.8	3217.7	3195.7	3186.9
10°	3319.2	3319.2	3314.8	3297.2	3288.3	3261.9	3239.8	3208.9	3178.0	3147.0	3138.2
12.5°	3306.0	3310.4	3301.6	3283.9	3261.9	3231.0	3200.1	3160.4	3125.0	3089.7	3072.0
15°	3288.3	3283.9	3275.1	3253.0	3226.6	3186.9	3156.0	3111.7	3063.2	3019.1	3001.4
17.5°	3244.2	3244.2	3231.0	3208.9	3173.6	3129.4	3080.9	3032.3	2979.4	2930.8	2908.8
20°	3186.9	3186.9	3169.2	3142.6	3107.3	3050.0	2997.0	2939.7	2877.9	2829.3	2807.2
22.5°	3102.9	3107.3	3085.3	3054.4	3014.7	2948.5	2895.5	2824.8	2763.1	2705.7	2688.1
25°	2992.6	3001.4	2979.4	2948.5	2895.5	2838.1	2771.9	2705.7	2635.1	2577.8	2551.2
27.5°	2864.7	2869.1	2846.9	2816.0	2763.1	2701.3	2635.1	2564.4	2498.2	2436.5	2410.0
30°	2723.4	2705.7	2696.9	2657.2	2599.7	2546.8	2471.8	2414.4	2343.8	2290.8	2259.9
32.5°	2524.7	2533.5	2507.1	2476.2	2432.1	2370.3	2308.4	2242.2	2176.0	2136.3	2114.3
35°	2326.2	2335.0	2321.6	2290.8	2242.2	2189.3	2127.5	2079.0	2021.5	1973.0	1950.9
37.5°	2118.7	2118.7	2109.9	2092.2	2056.9	2008.3	1946.5	1898.0	1849.4	1809.7	1796.5
40°	1911.2	1902.4	1898.0	1884.7	1853.8	1809.7	1769.9	1730.2	1681.7	1655.2	1637.5
42.5°	1708.1	1708.1	1699.3	1686.1	1655.2	1633.1	1593.4	1549.3	1514.0	1487.4	1487.4
45°	1522.8	1527.2	1514.0	1505.2	1487.4	1452.1	1416.8	1385.9	1355.1	1337.4	1328.6
47.5°	1359.5	1359.5	1346.2	1337.4	1319.8	1288.9	1258.0	1231.4	1209.5	1196.1	1191.7
50°	1204.9	1204.9	1204.9	1182.9	1160.8	1138.8	1116.7	1085.8	1072.6	1063.8	1059.3
52.5°	1072.6	1068.2	1068.2	1050.5	1028.5	1002.0	979.9	953.3	940.1	931.3	935.7
55°	953.3	953.3	948.9	926.9	904.8	878.3	856.3	834.2	825.4	816.6	821.0
56°	904.8	904.8	900.4	882.8	856.3	834.2	807.7	785.7	772.4	776.9	776.9
57°	869.5	860.7	860.7	838.6	816.6	785.7	763.6	741.6	732.7	728.3	728.3
58°	825.4	821.0	816.6	794.5	772.4	746.0	723.9	701.7	688.5	688.5	684.2
59°	781.3	781.3	772.4	754.8	732.7	706.3	684.2	662.0	648.8	644.4	644.4
60°	741.6	746.0	732.7	715.1	697.3	666.6	640.0	622.3	609.1	604.7	604.7
61°	706.3	706.3	697.3	675.4	653.2	631.2	604.7	582.6	573.8	565.0	565.0
62°	675.4	666.6	662.0	640.0	617.9	591.4	569.4	547.3	534.1	525.3	529.7
63°	635.6	631.2	622.3	604.7	582.6	556.1	529.7	512.0	498.8	485.5	490.0
64°	604.7	600.3	587.0	569.4	547.3	520.8	494.4	476.7	467.9	454.7	450.3
65°	565.0	560.6	556.1	534.1	512.0	485.5	463.5	445.8	432.6	423.8	415.0
66°	529.7	534.1	525.3	507.6	481.1	459.1	428.2	410.4	401.6	388.4	379.6
67°	498.8	498.8	490.0	472.3	445.8	423.8	401.6	379.6	366.3	353.1	348.7
67.5°	481.1	481.1	472.3	450.3	432.6	406.0	384.0	366.3	348.7	339.8	331.0
68°	463.5	463.5	459.1	441.4	419.4	392.8	370.7	348.7	331.0	317.8	313.4
69°	432.6	437.0	428.2	410.4	388.4	361.9	339.8	322.2	304.5	291.3	282.5
70°	406.0	401.6	392.8	375.1	353.1	335.4	313.4	291.3	273.7	256.0	251.6
71°	370.7	370.7	361.9	348.7	326.6	304.5	282.5	264.8	247.2	225.1	220.7
72°	344.3	344.3	335.4	317.8	300.1	278.1	256.0	233.9	220.7	198.7	189.8
72.5°	326.6	331.0	322.2	304.5	286.9	260.4	242.8	225.1	203.1	185.4	176.6
73°	317.8	313.4	309.0	291.3	269.2	251.6	229.5	211.9	189.8	172.2	163.4



TEST NUMBER: P585297
 CATALOG NUMBER: HCC8S80D010MB-HM86080935-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	198.7	198.7	194.2	176.6	158.9	141.3	123.5	105.9	88.2	70.6	61.8
80°	136.9	141.3	132.5	123.5	110.3	92.7	75.0	61.8	44.1	35.3	26.5
82.5°	88.2	88.2	83.8	75.0	66.2	52.9	44.1	30.9	22.1	17.6	13.2
85°	44.1	48.5	44.1	39.7	30.9	26.5	22.1	13.2	8.8	4.4	4.4
87.5°	17.6	17.6	17.6	13.2	13.2	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

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



TEST NUMBER: P585297

CATALOG NUMBER: HCC8S80D010MB-HM86080935-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4	3257.4
2.5°	3244.2	3244.2	3235.4	3231.0	3226.6	3222.2	3217.7	3213.3	3213.3	3217.7
5°	3217.7	3208.9	3191.3	3186.9	3173.6	3169.2	3160.4	3156.0	3160.4	3156.0
7.5°	3178.0	3160.4	3138.2	3129.4	3111.7	3102.9	3089.7	3089.7	3080.9	3085.3
10°	3125.0	3098.5	3072.0	3054.4	3041.1	3027.9	3019.1	3010.3	3005.8	3005.8
12.5°	3058.8	3027.9	3001.4	2975.0	2952.9	2944.1	2926.4	2926.4	2917.6	2913.2
15°	2983.8	2944.1	2913.2	2886.7	2869.1	2851.3	2838.1	2829.3	2820.4	2820.4
17.5°	2886.7	2851.3	2820.4	2789.5	2763.1	2749.8	2736.6	2723.4	2723.4	2714.5
20°	2780.7	2741.0	2714.5	2683.7	2661.6	2639.5	2621.9	2621.9	2613.1	2617.5
22.5°	2661.6	2613.1	2586.6	2564.4	2542.4	2524.7	2507.1	2507.1	2502.7	2498.2
25°	2529.1	2489.4	2458.5	2432.1	2418.8	2401.2	2396.8	2387.9	2383.5	2383.5
27.5°	2387.9	2357.0	2317.2	2304.0	2286.4	2277.5	2277.5	2273.1	2264.3	2268.7
30°	2237.8	2202.5	2180.5	2171.6	2154.0	2154.0	2149.6	2140.7	2140.7	2145.2
32.5°	2092.2	2056.9	2039.3	2034.9	2017.1	2017.1	2012.7	2017.1	2017.1	2021.5
35°	1933.3	1902.4	1898.0	1884.7	1880.3	1880.3	1880.3	1889.1	1898.0	1884.7
37.5°	1783.3	1761.1	1747.9	1743.4	1747.9	1747.9	1752.3	1765.5	1761.1	1756.7
40°	1628.7	1611.1	1602.3	1602.3	1611.1	1619.9	1619.9	1633.1	1637.5	1633.1
42.5°	1474.2	1461.0	1461.0	1465.4	1474.2	1478.6	1491.8	1505.2	1509.6	1514.0
45°	1328.6	1328.6	1328.6	1333.0	1337.4	1346.2	1363.9	1377.1	1381.5	1385.9
47.5°	1187.3	1182.9	1196.1	1200.5	1213.9	1218.2	1231.4	1249.2	1253.6	1258.0
50°	1054.9	1063.8	1068.2	1081.4	1090.2	1090.2	1107.9	1116.7	1129.9	1129.9
52.5°	931.3	944.5	948.9	962.3	966.7	971.1	979.9	993.2	1002.0	1002.0
55°	821.0	825.4	834.2	838.6	851.9	856.3	865.1	869.5	882.8	878.3
56°	772.4	781.3	785.7	794.5	803.3	807.7	816.6	821.0	829.8	834.2
57°	728.3	732.7	746.0	750.4	759.2	759.2	763.6	776.9	776.9	781.3
58°	684.2	692.9	697.3	701.7	710.7	715.1	723.9	728.3	732.7	728.3
59°	644.4	648.8	653.2	653.2	662.0	662.0	675.4	684.2	688.5	688.5
60°	604.7	604.7	609.1	613.5	622.3	626.7	626.7	635.6	635.6	635.6
61°	565.0	565.0	569.4	573.8	578.2	578.2	587.0	587.0	591.4	595.9
62°	529.7	525.3	525.3	529.7	529.7	538.5	542.9	547.3	551.7	547.3
63°	490.0	485.5	485.5	485.5	485.5	494.4	494.4	498.8	507.6	503.2
64°	445.8	445.8	445.8	445.8	450.3	450.3	459.1	463.5	467.9	472.3
65°	415.0	406.0	401.6	401.6	406.0	410.4	415.0	419.4	423.8	423.8
66°	379.6	370.7	366.3	366.3	366.3	366.3	375.1	375.1	384.0	384.0
67°	339.8	331.0	326.6	322.2	322.2	322.2	335.4	331.0	331.0	331.0
67.5°	326.6	313.4	309.0	304.5	300.1	309.0	304.5	309.0	309.0	304.5
68°	309.0	300.1	291.3	282.5	282.5	282.5	286.9	291.3	286.9	282.5
69°	273.7	269.2	256.0	247.2	242.8	247.2	242.8	247.2	242.8	247.2
70°	242.8	229.5	216.3	211.9	207.5	207.5	207.5	203.1	207.5	203.1
71°	211.9	198.7	185.4	176.6	172.2	172.2	167.8	172.2	167.8	172.2
72°	181.0	167.8	150.1	141.3	141.3	141.3	141.3	136.9	141.3	136.9
72.5°	167.8	150.1	136.9	128.1	123.5	123.5	123.5	123.5	119.1	123.5
73°	154.5	136.9	119.1	114.7	114.7	114.7	110.3	105.9	110.3	110.3



TEST NUMBER: P585297

CATALOG NUMBER: HCC8S80D010MB-HM86080935-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	52.9	39.7	35.3	35.3	35.3	35.3	35.3	35.3	30.9	30.9
80°	22.1	17.6	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
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
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



74°	286.9	286.9	278.1	264.8	242.8	220.7	203.1	185.4	163.4	141.3	132.5
75°	264.8	260.4	251.6	238.4	220.7	198.7	181.0	158.9	141.3	119.1	110.3

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°	128.1	105.9	97.1	88.2	88.2	88.2	83.8	83.8	83.8	88.2
75°	101.5	83.8	75.0	66.2	70.6	66.2	70.6	66.2	66.2	66.2

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

Scaled Data Report



(END OF REPORT)