

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: P584192

Luminaire Tested: **HCC8W25D010SL-HM82555930-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584192
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: HCC8W25D010SL-HM82555930-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

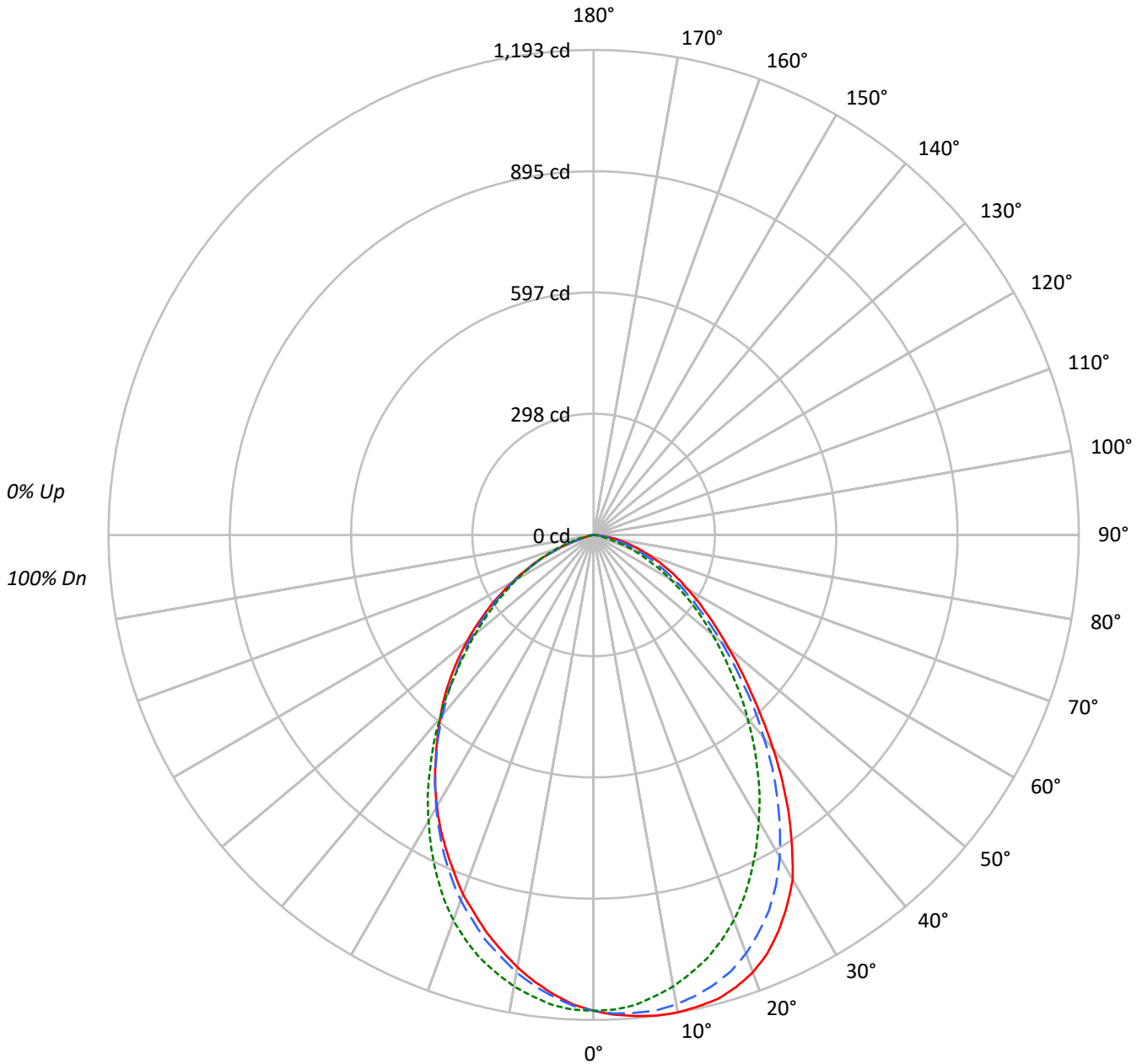
Lumens per Lamp: N/A
Luminaire Lumens: 2194.3 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): 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: P584192
CATALOG NUMBER: HCC8W25D010SL-HM82555930-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P584192

CATALOG NUMBER: HCC8W25D010SL-HM82555930-81RWWH

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°	36094	36094	36094
5°	36770	35938	35102
10°	37346	35311	33820
15°	37722	34430	32355
20°	37577	33101	30863
25°	36590	31193	29138
30°	34845	28913	27446
35°	31467	26392	25493
40°	27642	23685	23621
45°	23863	20819	21717
50°	20772	18258	19482
55°	18419	15860	16972
60°	16430	13401	14080
65°	14812	10879	11113
70°	13154	8150	6582
75°	11330	4730	2836
80°	8737	1687	835
85°	5590	566	566



TEST NUMBER: P584192

CATALOG NUMBER: HCC8W25D010SL-HM82555930-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	5.0
10°-20°	305.9	13.9
20°-30°	432.6	19.7
30°-40°	455.9	20.8
40°-50°	387.4	17.7
50°-60°	279.0	12.7
60°-70°	160.9	7.3
70°-80°	55.1	2.5
80°-90°	7.6	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°	848.4	38.7
0°-40°	1304.3	59.4
0°-60°	1970.7	89.8
0°-90°	2194.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2194.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1170	1170	1170	1170	1170	
5°	1188	1180	1161	1140	1134	114
15°	1182	1145	1078	1031	1014	333
25°	1075	1020	917	869	856	493
35°	836	787	701	676	677	521
45°	547	522	477	480	498	425
55°	343	316	295	306	316	308
65°	203	174	149	146	152	202
75°	95	71	40	25	24	100
85°	16	10	2	2	2	21
90°	0	0	0	0	0	



TEST NUMBER: P584192

CATALOG NUMBER: HCC8W25D010SL-HM82555930-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1170.5	1170.5	1170.5	1170.5	1170.5	1170.5	1170.5	1170.5	1170.5	1170.5	1170.5
2.5°	1181.6	1183.2	1181.6	1181.6	1180.0	1178.4	1176.8	1175.3	1172.1	1168.9	1168.9
5°	1187.9	1191.1	1187.9	1187.9	1183.2	1180.0	1176.8	1172.1	1165.8	1161.0	1161.0
7.5°	1192.7	1192.7	1192.7	1187.9	1184.8	1180.0	1172.1	1164.2	1156.2	1148.3	1145.1
10°	1192.7	1192.7	1191.1	1184.8	1181.6	1172.1	1164.2	1153.0	1141.9	1130.9	1127.7
12.5°	1187.9	1189.5	1186.3	1180.0	1172.1	1161.0	1149.9	1135.6	1123.0	1110.2	1103.9
15°	1181.6	1180.0	1176.8	1168.9	1159.3	1145.1	1134.0	1118.2	1100.7	1084.9	1078.5
17.5°	1165.8	1165.8	1161.0	1153.0	1140.4	1124.5	1107.0	1089.6	1070.5	1053.1	1045.2
20°	1145.1	1145.1	1138.8	1129.3	1116.5	1096.0	1077.0	1056.3	1034.0	1016.6	1008.7
22.5°	1114.9	1116.5	1108.6	1097.5	1083.3	1059.5	1040.5	1015.1	992.9	972.2	965.9
25°	1075.4	1078.5	1070.5	1059.5	1040.5	1019.8	996.1	972.2	946.8	926.2	916.8
27.5°	1029.3	1030.9	1023.0	1011.9	992.9	970.7	946.8	921.5	897.7	875.5	866.0
30°	978.6	972.2	969.1	954.8	934.2	915.2	888.2	867.6	842.2	823.2	812.0
32.5°	907.3	910.4	900.8	889.8	873.9	851.7	829.5	805.7	782.0	767.6	759.7
35°	835.9	839.0	834.3	823.2	805.7	786.7	764.5	747.1	726.4	709.0	701.1
37.5°	761.3	761.3	758.1	751.8	739.0	721.6	699.5	682.0	664.6	650.2	645.5
40°	686.7	683.6	682.0	677.2	666.2	650.2	636.0	621.8	604.2	594.8	588.4
42.5°	613.8	613.8	610.6	605.8	594.8	586.8	572.6	556.7	544.0	534.5	534.5
45°	547.2	548.8	544.0	540.9	534.5	521.8	509.1	498.0	487.0	480.5	477.4
47.5°	488.5	488.5	483.7	480.5	474.2	463.1	452.0	442.6	434.5	429.8	428.2
50°	433.0	433.0	433.0	425.0	417.1	409.2	401.2	390.1	385.4	382.2	380.6
52.5°	385.4	383.8	383.8	377.5	369.6	360.1	352.1	342.6	337.8	334.7	336.2
55°	342.6	342.6	341.0	333.1	325.2	315.7	307.7	299.8	296.6	293.4	295.0
56°	325.2	325.2	323.6	317.3	307.7	299.8	290.3	282.3	277.6	279.2	279.2
57°	312.4	309.2	309.2	301.3	293.4	282.3	274.3	266.4	263.3	261.7	261.7
58°	296.6	295.0	293.4	285.5	277.6	268.0	260.1	252.2	247.4	247.4	245.9
59°	280.8	280.8	277.6	271.2	263.3	253.8	245.9	237.9	233.2	231.5	231.5
60°	266.4	268.0	263.3	256.9	250.6	239.5	229.9	223.6	218.9	217.3	217.3
61°	253.8	253.8	250.6	242.7	234.8	226.8	217.3	209.4	206.2	203.0	203.0
62°	242.7	239.5	237.9	229.9	222.0	212.5	204.6	196.7	192.0	188.7	190.4
63°	228.3	226.8	223.6	217.3	209.4	199.9	190.4	183.9	179.2	174.5	176.0
64°	217.3	215.7	210.9	204.6	196.7	187.1	177.6	171.3	168.1	163.4	161.8
65°	203.0	201.4	199.9	192.0	183.9	174.5	166.5	160.2	155.5	152.3	149.1
66°	190.4	192.0	188.7	182.4	172.9	165.0	153.9	147.6	144.3	139.5	136.4
67°	179.2	179.2	176.0	169.7	160.2	152.3	144.3	136.4	131.6	126.9	125.3
67.5°	172.9	172.9	169.7	161.8	155.5	145.9	138.0	131.6	125.3	122.1	119.0
68°	166.5	166.5	165.0	158.6	150.7	141.1	133.2	125.3	119.0	114.2	112.6
69°	155.5	157.0	153.9	147.6	139.5	130.0	122.1	115.8	109.5	104.6	101.5
70°	145.9	144.3	141.1	134.8	126.9	120.6	112.6	104.6	98.3	92.0	90.4
71°	133.2	133.2	130.0	125.3	117.4	109.5	101.5	95.1	88.8	80.9	79.3
72°	123.7	123.7	120.6	114.2	107.9	99.9	92.0	84.1	79.3	71.4	68.2
72.5°	117.4	119.0	115.8	109.5	103.0	93.6	87.2	80.9	73.0	66.7	63.5
73°	114.2	112.6	111.1	104.6	96.7	90.4	82.5	76.1	68.2	61.8	58.6



TEST NUMBER: P584192
 CATALOG NUMBER: HCC8W25D010SL-HM82555930-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	71.4	71.4	69.8	63.5	57.1	50.7	44.4	38.1	31.7	25.4	22.3
80°	49.2	50.7	47.6	44.4	39.7	33.3	27.0	22.3	15.8	12.7	9.5
82.5°	31.7	31.7	30.2	27.0	23.8	19.0	15.8	11.1	7.9	6.3	4.7
85°	15.8	17.4	15.8	14.2	11.1	9.5	7.9	4.7	3.2	1.6	1.6
87.5°	6.3	6.3	6.3	4.7	4.7	3.2	1.6	1.6	1.6	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: P584192

CATALOG NUMBER: HCC8W25D010SL-HM82555930-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1170.5	1170.5	1170.5	1170.5	1170.5	1170.5	1170.5	1170.5	1170.5	1170.5
2.5°	1165.8	1165.8	1162.6	1161.0	1159.3	1157.8	1156.2	1154.6	1154.6	1156.2
5°	1156.2	1153.0	1146.7	1145.1	1140.4	1138.8	1135.6	1134.0	1135.6	1134.0
7.5°	1141.9	1135.6	1127.7	1124.5	1118.2	1114.9	1110.2	1110.2	1107.0	1108.6
10°	1123.0	1113.4	1103.9	1097.5	1092.8	1088.0	1084.9	1081.7	1080.1	1080.1
12.5°	1099.1	1088.0	1078.5	1069.0	1061.0	1057.9	1051.5	1051.5	1048.4	1046.8
15°	1072.1	1057.9	1046.8	1037.3	1030.9	1024.6	1019.8	1016.6	1013.5	1013.5
17.5°	1037.3	1024.6	1013.5	1002.4	992.9	988.1	983.3	978.6	978.6	975.4
20°	999.2	984.9	975.4	964.3	956.4	948.4	942.1	942.1	938.9	940.5
22.5°	956.4	938.9	929.4	921.5	913.6	907.3	900.8	900.8	899.3	897.7
25°	908.8	894.5	883.4	873.9	869.2	862.8	861.2	858.0	856.4	856.4
27.5°	858.0	846.9	832.7	827.9	821.5	818.4	818.4	816.8	813.6	815.2
30°	804.1	791.5	783.5	780.4	774.0	774.0	772.4	769.2	769.2	770.8
32.5°	751.8	739.0	732.7	731.1	724.8	724.8	723.2	724.8	724.8	726.4
35°	694.6	683.6	682.0	677.2	675.6	675.6	675.6	678.8	682.0	677.2
37.5°	640.7	632.8	628.1	626.5	628.1	628.1	629.7	634.4	632.8	631.2
40°	585.3	578.9	575.8	575.8	578.9	582.1	582.1	586.8	588.4	586.8
42.5°	529.8	524.9	524.9	526.5	529.8	531.4	536.1	540.9	542.4	544.0
45°	477.4	477.4	477.4	478.9	480.5	483.7	490.1	494.9	496.5	498.0
47.5°	426.6	425.0	429.8	431.4	436.1	437.7	442.6	448.9	450.5	452.0
50°	379.1	382.2	383.8	388.6	391.7	391.7	398.1	401.2	406.1	406.1
52.5°	334.7	339.4	341.0	345.7	347.3	348.9	352.1	356.8	360.1	360.1
55°	295.0	296.6	299.8	301.3	306.1	307.7	310.8	312.4	317.3	315.7
56°	277.6	280.8	282.3	285.5	288.7	290.3	293.4	295.0	298.2	299.8
57°	261.7	263.3	268.0	269.6	272.8	272.8	274.3	279.2	279.2	280.8
58°	245.9	249.0	250.6	252.2	255.3	256.9	260.1	261.7	263.3	261.7
59°	231.5	233.2	234.8	234.8	237.9	237.9	242.7	245.9	247.4	247.4
60°	217.3	217.3	218.9	220.4	223.6	225.2	225.2	228.3	228.3	228.3
61°	203.0	203.0	204.6	206.2	207.8	207.8	210.9	210.9	212.5	214.1
62°	190.4	188.7	188.7	190.4	190.4	193.5	195.1	196.7	198.3	196.7
63°	176.0	174.5	174.5	174.5	174.5	177.6	177.6	179.2	182.4	180.8
64°	160.2	160.2	160.2	160.2	161.8	161.8	165.0	166.5	168.1	169.7
65°	149.1	145.9	144.3	144.3	145.9	147.6	149.1	150.7	152.3	152.3
66°	136.4	133.2	131.6	131.6	131.6	131.6	134.8	134.8	138.0	138.0
67°	122.1	119.0	117.4	115.8	115.8	115.8	120.6	119.0	119.0	119.0
67.5°	117.4	112.6	111.1	109.5	107.9	111.1	109.5	111.1	111.1	109.5
68°	111.1	107.9	104.6	101.5	101.5	101.5	103.0	104.6	103.0	101.5
69°	98.3	96.7	92.0	88.8	87.2	88.8	87.2	88.8	87.2	88.8
70°	87.2	82.5	77.7	76.1	74.6	74.6	74.6	73.0	74.6	73.0
71°	76.1	71.4	66.7	63.5	61.8	61.8	60.2	61.8	60.2	61.8
72°	65.1	60.2	53.9	50.7	50.7	50.7	50.7	49.2	50.7	49.2
72.5°	60.2	53.9	49.2	46.0	44.4	44.4	44.4	44.4	42.8	44.4
73°	55.5	49.2	42.8	41.2	41.2	41.2	39.7	38.1	39.7	39.7



TEST NUMBER: P584192
CATALOG NUMBER: HCC8W25D010SL-HM82555930-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	19.0	14.2	12.7	12.7	12.7	12.7	12.7	12.7	11.1	11.1
80°	7.9	6.3	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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°	103.0	103.0	99.9	95.1	87.2	79.3	73.0	66.7	58.6	50.7	47.6
75°	95.1	93.6	90.4	85.6	79.3	71.4	65.1	57.1	50.7	42.8	39.7

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°	46.0	38.1	34.9	31.7	31.7	31.7	30.2	30.2	30.2	31.7
75°	36.5	30.2	27.0	23.8	25.4	23.8	25.4	23.8	23.8	23.8

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

Scaled Data Report



(END OF REPORT)