

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: P584158

Luminaire Tested: **HCC8S25D010MW-HM82555840-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584158
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: HCC8S25D010MW-HM82555840-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

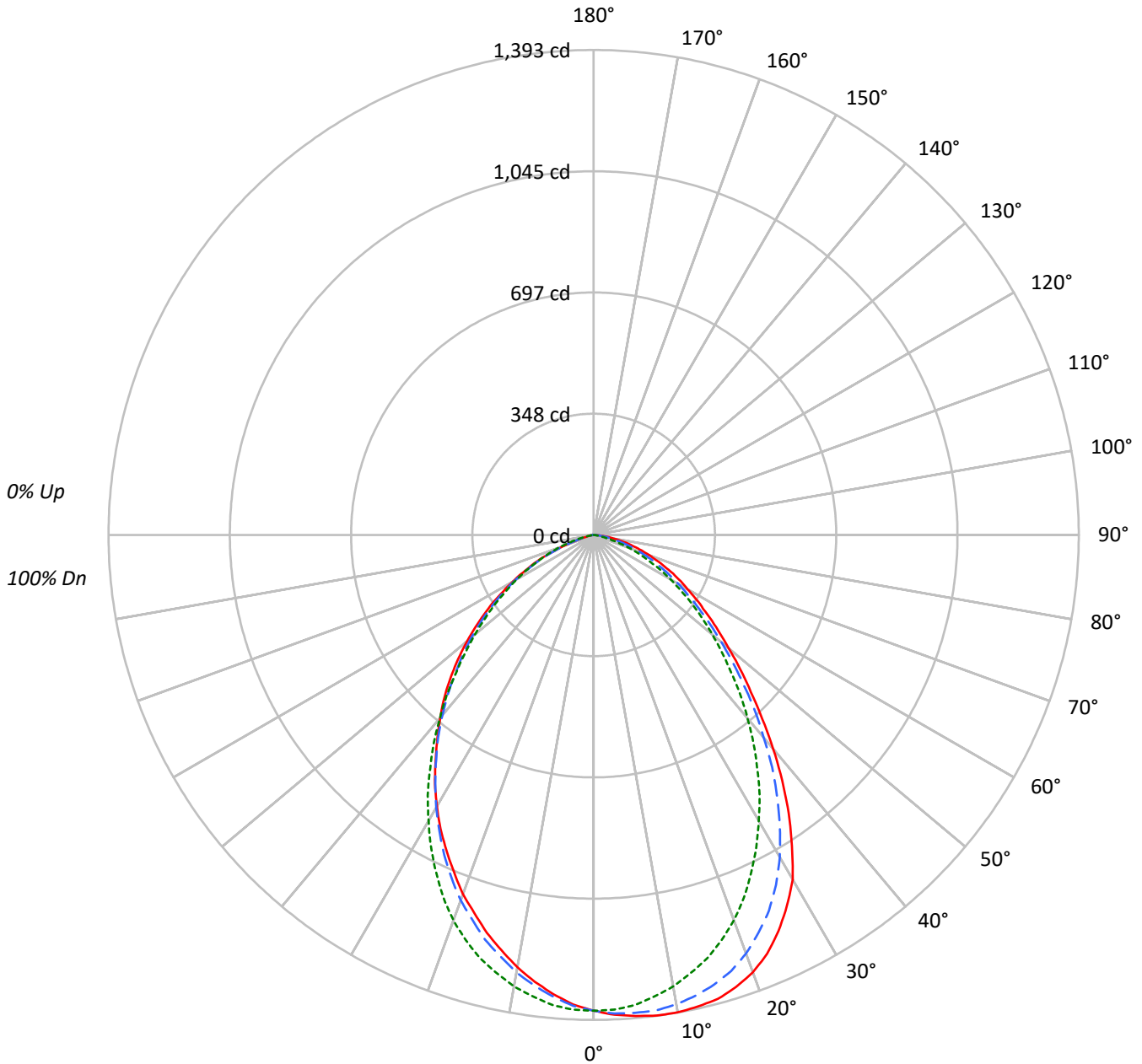
Lumens per Lamp: N/A
Luminaire Lumens: 2562.2 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584158
CATALOG NUMBER: HCC8S25D010MW-HM82555840-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P584158

CATALOG NUMBER: HCC8S25D010MW-HM82555840-81RWWH

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°	42144	42144	42144
5°	42933	41961	40986
10°	43605	41229	39488
15°	44046	40202	37779
20°	43877	38653	36035
25°	42721	36419	34024
30°	40688	33762	32050
35°	36737	30816	29765
40°	32280	27654	27582
45°	27862	24312	25359
50°	24255	21324	22744
55°	21505	18515	19811
60°	19193	15646	16442
65°	17293	12703	12973
70°	15354	9521	7682
75°	13237	5516	3312
80°	10211	1971	994
85°	6545	637	637



TEST NUMBER: P584158
 CATALOG NUMBER: HCC8S25D010MW-HM82555840-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.3	5.0
10°-20°	357.2	13.9
20°-30°	505.2	19.7
30°-40°	532.3	20.8
40°-50°	452.4	17.7
50°-60°	325.8	12.7
60°-70°	187.9	7.3
70°-80°	64.3	2.5
80°-90°	8.8	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°	990.6	38.7
0°-40°	1522.9	59.4
0°-60°	2301.1	89.8
0°-90°	2562.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2562.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1367	1367	1367	1367	1367	
5°	1387	1378	1356	1332	1324	133
15°	1380	1337	1259	1204	1183	388
25°	1256	1191	1070	1015	1000	576
35°	976	919	819	789	791	608
45°	639	609	558	561	582	496
55°	400	368	344	357	368	360
65°	237	204	174	170	178	236
75°	111	83	46	30	28	117
85°	18	11	2	2	2	25
90°	0	0	0	0	0	



TEST NUMBER: P584158

CATALOG NUMBER: HCC8S25D010MW-HM82555840-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7
2.5°	1379.7	1381.5	1379.7	1379.7	1377.8	1376.0	1374.1	1372.3	1368.5	1364.9	1364.9
5°	1387.0	1390.8	1387.0	1387.0	1381.5	1377.8	1374.1	1368.5	1361.1	1355.6	1355.6
7.5°	1392.6	1392.6	1392.6	1387.0	1383.4	1377.8	1368.5	1359.3	1350.0	1340.8	1337.1
10°	1392.6	1392.6	1390.8	1383.4	1379.7	1368.5	1359.3	1346.4	1333.3	1320.4	1316.7
12.5°	1387.0	1389.0	1385.2	1377.8	1368.5	1355.6	1342.6	1325.9	1311.2	1296.3	1288.9
15°	1379.7	1377.8	1374.1	1364.9	1353.8	1337.1	1324.1	1305.6	1285.2	1266.7	1259.3
17.5°	1361.1	1361.1	1355.6	1346.4	1331.5	1313.0	1292.7	1272.2	1250.1	1229.6	1220.4
20°	1337.1	1337.1	1329.7	1318.6	1303.8	1279.7	1257.5	1233.4	1207.5	1187.1	1177.9
22.5°	1301.9	1303.8	1294.5	1281.5	1264.8	1237.1	1214.9	1185.2	1159.3	1135.3	1127.8
25°	1255.6	1259.3	1250.1	1237.1	1214.9	1190.8	1163.0	1135.3	1105.6	1081.6	1070.4
27.5°	1201.9	1203.8	1194.4	1181.5	1159.3	1133.3	1105.6	1076.0	1048.2	1022.3	1011.2
30°	1142.7	1135.3	1131.5	1114.8	1090.8	1068.6	1037.0	1013.0	983.3	961.2	948.2
32.5°	1059.3	1063.0	1051.9	1039.0	1020.5	994.5	968.6	940.7	913.0	896.3	887.0
35°	975.9	979.7	974.1	961.2	940.7	918.6	892.6	872.3	848.2	827.9	818.6
37.5°	889.0	889.0	885.2	877.8	863.0	842.6	816.7	796.3	776.0	759.3	753.7
40°	801.9	798.2	796.3	790.7	777.8	759.3	742.6	726.0	705.6	694.4	687.0
42.5°	716.7	716.7	712.9	707.5	694.4	685.2	668.5	650.0	635.3	624.1	624.1
45°	638.9	640.7	635.3	631.5	624.1	609.3	594.5	581.5	568.5	561.1	557.5
47.5°	570.4	570.4	564.9	561.1	553.7	540.8	527.8	516.7	507.4	501.8	500.0
50°	505.6	505.6	505.6	496.3	487.1	477.8	468.6	455.6	450.0	446.3	444.5
52.5°	450.0	448.1	448.1	440.7	431.5	420.4	411.1	400.0	394.5	390.8	392.6
55°	400.0	400.0	398.1	388.9	379.6	368.5	359.3	350.0	346.4	342.6	344.4
56°	379.6	379.6	377.8	370.4	359.3	350.0	338.9	329.7	324.1	325.9	325.9
57°	364.9	361.1	361.1	351.8	342.6	329.7	320.4	311.2	307.4	305.6	305.6
58°	346.4	344.4	342.6	333.3	324.1	313.0	303.7	294.5	288.9	288.9	287.1
59°	327.7	327.7	324.1	316.7	307.4	296.3	287.1	277.8	272.2	270.4	270.4
60°	311.2	313.0	307.4	300.0	292.6	279.6	268.6	261.1	255.5	253.7	253.7
61°	296.3	296.3	292.6	283.3	274.1	264.8	253.7	244.5	240.8	237.0	237.0
62°	283.3	279.6	277.8	268.6	259.3	248.1	238.9	229.6	224.1	220.4	222.2
63°	266.6	264.8	261.1	253.7	244.5	233.4	222.2	214.9	209.3	203.7	205.5
64°	253.7	251.9	246.3	238.9	229.6	218.5	207.4	200.0	196.3	190.8	188.9
65°	237.0	235.2	233.4	224.1	214.9	203.7	194.4	187.0	181.5	177.8	174.1
66°	222.2	224.1	220.4	212.9	201.9	192.6	179.7	172.3	168.5	163.0	159.2
67°	209.3	209.3	205.5	198.2	187.0	177.8	168.5	159.2	153.8	148.2	146.3
67.5°	201.9	201.9	198.2	188.9	181.5	170.3	161.1	153.8	146.3	142.6	138.9
68°	194.4	194.4	192.6	185.2	175.9	164.8	155.6	146.3	138.9	133.3	131.5
69°	181.5	183.3	179.7	172.3	163.0	151.8	142.6	135.1	127.8	122.2	118.6
70°	170.3	168.5	164.8	157.4	148.2	140.7	131.5	122.2	114.8	107.4	105.6
71°	155.6	155.6	151.8	146.3	137.1	127.8	118.6	111.1	103.7	94.5	92.6
72°	144.5	144.5	140.7	133.3	125.9	116.6	107.4	98.1	92.6	83.4	79.6
72.5°	137.1	138.9	135.1	127.8	120.4	109.2	101.9	94.5	85.2	77.8	74.0
73°	133.3	131.5	129.7	122.2	113.0	105.6	96.3	88.9	79.6	72.2	68.5



TEST NUMBER: P584158
 CATALOG NUMBER: HCC8S25D010MW-HM82555840-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	83.4	83.4	81.5	74.0	66.7	59.3	51.9	44.4	37.0	29.6	25.9
80°	57.5	59.3	55.5	51.9	46.3	38.8	31.5	25.9	18.5	14.8	11.1
82.5°	37.0	37.0	35.2	31.5	27.8	22.3	18.5	12.9	9.3	7.4	5.6
85°	18.5	20.3	18.5	16.7	12.9	11.1	9.3	5.6	3.7	1.8	1.8
87.5°	7.4	7.4	7.4	5.6	5.6	3.7	1.8	1.8	1.8	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: P584158

CATALOG NUMBER: HCC8S25D010MW-HM82555840-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7
2.5°	1361.1	1361.1	1357.4	1355.6	1353.8	1351.9	1350.0	1348.2	1348.2	1350.0
5°	1350.0	1346.4	1338.9	1337.1	1331.5	1329.7	1325.9	1324.1	1325.9	1324.1
7.5°	1333.3	1325.9	1316.7	1313.0	1305.6	1301.9	1296.3	1296.3	1292.7	1294.5
10°	1311.2	1300.1	1288.9	1281.5	1276.0	1270.4	1266.7	1263.0	1261.1	1261.1
12.5°	1283.4	1270.4	1259.3	1248.2	1239.0	1235.2	1227.8	1227.8	1224.1	1222.3
15°	1251.9	1235.2	1222.3	1211.1	1203.8	1196.4	1190.8	1187.1	1183.4	1183.4
17.5°	1211.1	1196.4	1183.4	1170.4	1159.3	1153.8	1148.2	1142.7	1142.7	1138.9
20°	1166.7	1150.0	1138.9	1126.0	1116.8	1107.4	1100.1	1100.1	1096.3	1098.1
22.5°	1116.8	1096.3	1085.2	1076.0	1066.7	1059.3	1051.9	1051.9	1050.0	1048.2
25°	1061.1	1044.5	1031.5	1020.5	1014.9	1007.4	1005.6	1001.8	1000.0	1000.0
27.5°	1001.8	988.9	972.3	966.7	959.3	955.6	955.6	953.7	950.1	951.9
30°	938.9	924.2	914.8	911.1	903.7	903.7	901.9	898.2	898.2	900.1
32.5°	877.8	863.0	855.6	853.8	846.4	846.4	844.4	846.4	846.4	848.2
35°	811.2	798.2	796.3	790.7	788.9	788.9	788.9	792.7	796.3	790.7
37.5°	748.1	738.9	733.4	731.6	733.4	733.4	735.2	740.8	738.9	737.0
40°	683.4	675.9	672.3	672.3	675.9	679.7	679.7	685.2	687.0	685.2
42.5°	618.6	613.0	613.0	614.8	618.6	620.4	626.0	631.5	633.3	635.3
45°	557.5	557.5	557.5	559.3	561.1	564.9	572.2	577.8	579.6	581.5
47.5°	498.2	496.3	501.8	503.8	509.3	511.1	516.7	524.1	525.9	527.8
50°	442.7	446.3	448.1	453.7	457.4	457.4	464.8	468.6	474.1	474.1
52.5°	390.8	396.3	398.1	403.7	405.5	407.5	411.1	416.7	420.4	420.4
55°	344.4	346.4	350.0	351.8	357.4	359.3	362.9	364.9	370.4	368.5
56°	324.1	327.7	329.7	333.3	337.0	338.9	342.6	344.4	348.2	350.0
57°	305.6	307.4	313.0	314.8	318.5	318.5	320.4	325.9	325.9	327.7
58°	287.1	290.7	292.6	294.5	298.2	300.0	303.7	305.6	307.4	305.6
59°	270.4	272.2	274.1	274.1	277.8	277.8	283.3	287.1	288.9	288.9
60°	253.7	253.7	255.5	257.4	261.1	263.0	263.0	266.6	266.6	266.6
61°	237.0	237.0	238.9	240.8	242.6	242.6	246.3	246.3	248.1	250.1
62°	222.2	220.4	220.4	222.2	222.2	226.0	227.8	229.6	231.4	229.6
63°	205.5	203.7	203.7	203.7	203.7	207.4	207.4	209.3	212.9	211.1
64°	187.0	187.0	187.0	187.0	188.9	188.9	192.6	194.4	196.3	198.2
65°	174.1	170.3	168.5	168.5	170.3	172.3	174.1	175.9	177.8	177.8
66°	159.2	155.6	153.8	153.8	153.8	153.8	157.4	157.4	161.1	161.1
67°	142.6	138.9	137.1	135.1	135.1	135.1	140.7	138.9	138.9	138.9
67.5°	137.1	131.5	129.7	127.8	125.9	129.7	127.8	129.7	129.7	127.8
68°	129.7	125.9	122.2	118.6	118.6	118.6	120.4	122.2	120.4	118.6
69°	114.8	113.0	107.4	103.7	101.9	103.7	101.9	103.7	101.9	103.7
70°	101.9	96.3	90.7	88.9	87.0	87.0	87.0	85.2	87.0	85.2
71°	88.9	83.4	77.8	74.0	72.2	72.2	70.4	72.2	70.4	72.2
72°	76.0	70.4	62.9	59.3	59.3	59.3	59.3	57.5	59.3	57.5
72.5°	70.4	62.9	57.5	53.7	51.9	51.9	51.9	51.9	50.0	51.9
73°	64.8	57.5	50.0	48.2	48.2	48.2	46.3	44.4	46.3	46.3



TEST NUMBER: P584158
CATALOG NUMBER: HCC8S25D010MW-HM82555840-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	22.3	16.7	14.8	14.8	14.8	14.8	14.8	14.8	12.9	12.9
80°	9.3	7.4	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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°	120.4	120.4	116.6	111.1	101.9	92.6	85.2	77.8	68.5	59.3	55.5
75°	111.1	109.2	105.6	100.0	92.6	83.4	76.0	66.7	59.3	50.0	46.3

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°	53.7	44.4	40.8	37.0	37.0	37.0	35.2	35.2	35.2	37.0
75°	42.6	35.2	31.5	27.8	29.6	27.8	29.6	27.8	27.8	27.8

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

Scaled Data Report



(END OF REPORT)