

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: P593648

Luminaire Tested: **HCC8S25D010MB-HM82555950-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593648
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: HCC8S25D010MB-HM82555950-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

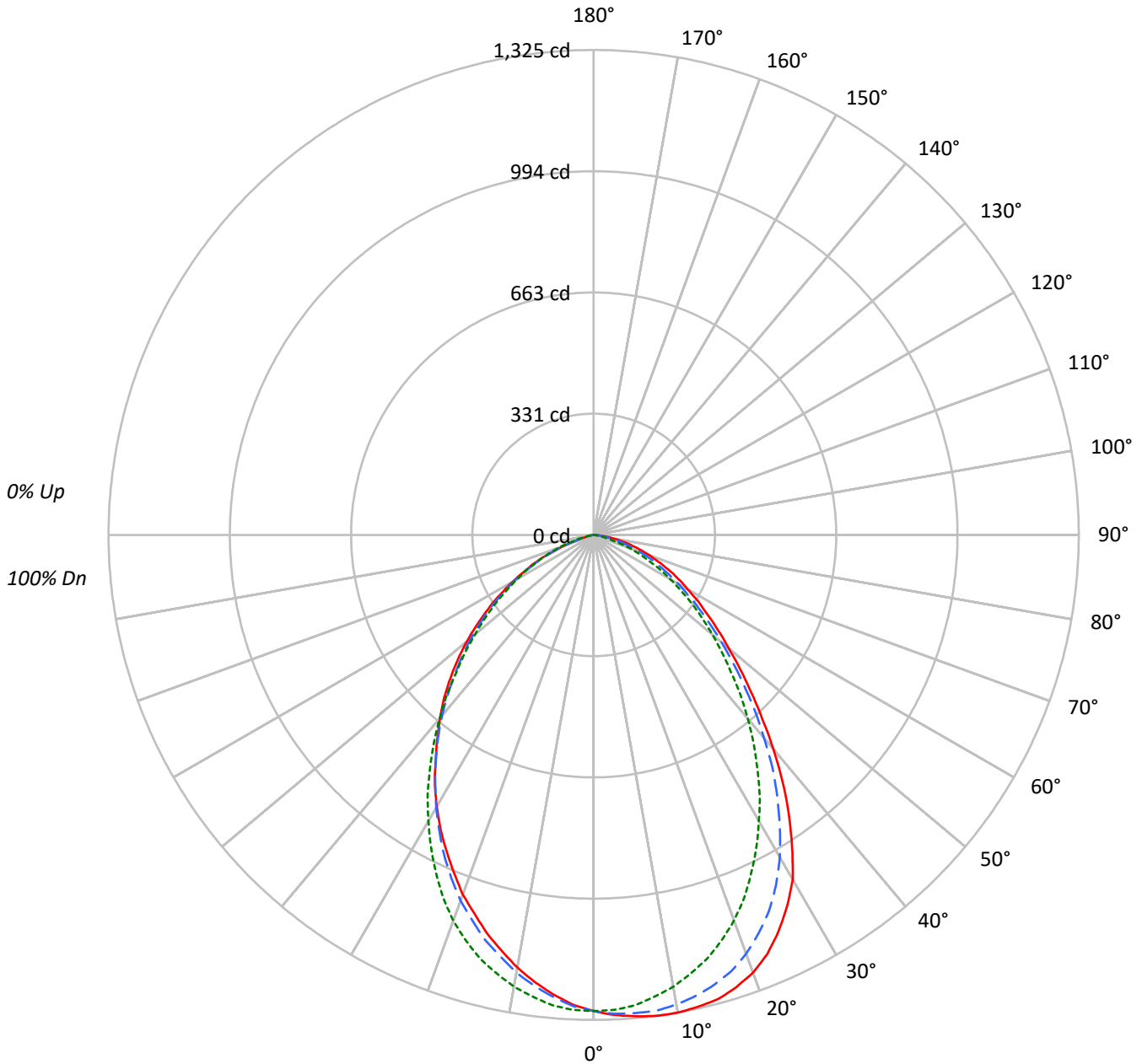
Lumens per Lamp: N/A
Luminaire Lumens: 2438.5 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P593648
CATALOG NUMBER: HCC8S25D010MB-HM82555950-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P593648

CATALOG NUMBER: HCC8S25D010MB-HM82555950-81RWWH

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			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°	40112	40112	40112
5°	40866	39937	39008
10°	41501	39240	37584
15°	41920	38261	35956
20°	41761	36786	34299
25°	40659	34660	32384
30°	38722	32131	30501
35°	34968	29329	28331
40°	30722	26322	26254
45°	26519	23135	24133
50°	23085	20292	21645
55°	20467	17623	18854
60°	18261	14894	15653
65°	16468	12083	12346
70°	14615	9061	7312
75°	12593	5254	3145
80°	9714	1882	923
85°	6262	601	601



TEST NUMBER: P593648

CATALOG NUMBER: HCC8S25D010MB-HM82555950-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	5.0
10°-20°	339.9	13.9
20°-30°	480.8	19.7
30°-40°	506.6	20.8
40°-50°	430.6	17.7
50°-60°	310.0	12.7
60°-70°	178.9	7.3
70°-80°	61.2	2.5
80°-90°	8.4	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°	942.8	38.7
0°-40°	1449.5	59.4
0°-60°	2190.1	89.8
0°-90°	2438.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2438.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1301	1301	1301	1301	1301	
5°	1320	1311	1290	1267	1260	126
15°	1313	1273	1198	1146	1126	370
25°	1195	1133	1019	966	952	548
35°	929	874	779	751	753	578
45°	608	580	530	534	553	472
55°	381	351	328	340	351	343
65°	226	194	166	162	169	224
75°	106	79	44	28	26	112
85°	18	11	2	2	2	24
90°	0	0	0	0	0	



TEST NUMBER: P593648

CATALOG NUMBER: HCC8S25D010MB-HM82555950-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1300.8	1300.8	1300.8	1300.8	1300.8	1300.8	1300.8	1300.8	1300.8	1300.8	1300.8
2.5°	1313.1	1314.9	1313.1	1313.1	1311.4	1309.6	1307.9	1306.0	1302.5	1299.0	1299.0
5°	1320.2	1323.7	1320.2	1320.2	1314.9	1311.4	1307.9	1302.5	1295.4	1290.2	1290.2
7.5°	1325.4	1325.4	1325.4	1320.2	1316.6	1311.4	1302.5	1293.7	1285.0	1276.1	1272.6
10°	1325.4	1325.4	1323.7	1316.6	1313.1	1302.5	1293.7	1281.4	1269.0	1256.7	1253.2
12.5°	1320.2	1322.0	1318.5	1311.4	1302.5	1290.2	1277.9	1262.0	1247.9	1233.8	1226.8
15°	1313.1	1311.4	1307.9	1299.0	1288.5	1272.6	1260.2	1242.6	1223.2	1205.6	1198.5
17.5°	1295.4	1295.4	1290.2	1281.4	1267.3	1249.7	1230.3	1210.9	1189.7	1170.4	1161.6
20°	1272.6	1272.6	1265.5	1255.0	1240.9	1218.0	1196.8	1173.9	1149.2	1129.8	1121.0
22.5°	1239.1	1240.9	1232.0	1219.7	1203.9	1177.4	1156.2	1128.1	1103.4	1080.5	1073.4
25°	1195.0	1198.5	1189.7	1177.4	1156.2	1133.3	1106.9	1080.5	1052.2	1029.3	1018.7
27.5°	1143.9	1145.6	1136.9	1124.6	1103.4	1078.7	1052.2	1024.1	997.7	973.0	962.4
30°	1087.5	1080.5	1077.0	1061.1	1038.1	1017.0	987.1	964.2	935.9	914.7	902.4
32.5°	1008.2	1011.7	1001.1	988.8	971.1	946.5	921.8	895.4	868.9	853.1	844.2
35°	928.9	932.4	927.2	914.7	895.4	874.2	849.6	830.2	807.2	787.8	779.1
37.5°	846.0	846.0	842.5	835.5	821.3	802.0	777.2	757.9	738.5	722.7	717.3
40°	763.2	759.7	757.9	752.6	740.3	722.7	706.8	690.9	671.5	660.9	653.9
42.5°	682.1	682.1	678.6	673.4	660.9	652.2	636.3	618.7	604.6	594.0	594.0
45°	608.1	609.9	604.6	601.0	594.0	579.9	565.8	553.4	541.1	534.0	530.5
47.5°	542.9	542.9	537.6	534.0	527.0	514.7	502.4	491.8	483.0	477.6	475.9
50°	481.2	481.2	481.2	472.4	463.5	454.8	446.0	433.6	428.3	424.8	423.0
52.5°	428.3	426.5	426.5	419.5	410.7	400.1	391.3	380.7	375.5	371.9	373.6
55°	380.7	380.7	379.0	370.1	361.3	350.7	342.0	333.1	329.6	326.0	327.8
56°	361.3	361.3	359.5	352.6	342.0	333.1	322.6	313.7	308.5	310.2	310.2
57°	347.2	343.7	343.7	334.9	326.0	313.7	305.0	296.1	292.5	290.8	290.8
58°	329.6	327.8	326.0	317.3	308.5	297.9	289.1	280.2	275.0	275.0	273.2
59°	312.0	312.0	308.5	301.4	292.5	282.1	273.2	264.4	259.0	257.3	257.3
60°	296.1	297.9	292.5	285.6	278.5	266.1	255.6	248.6	243.2	241.5	241.5
61°	282.1	282.1	278.5	269.6	260.9	252.1	241.5	232.6	229.1	225.7	225.7
62°	269.6	266.1	264.4	255.6	246.7	236.1	227.4	218.6	213.3	209.7	211.5
63°	253.8	252.1	248.6	241.5	232.6	222.1	211.5	204.5	199.1	193.9	195.6
64°	241.5	239.7	234.4	227.4	218.6	208.0	197.4	190.4	186.8	181.6	179.8
65°	225.7	223.8	222.1	213.3	204.5	193.9	185.1	178.0	172.7	169.2	165.6
66°	211.5	213.3	209.7	202.7	192.2	183.3	171.0	163.9	160.4	155.2	151.6
67°	199.1	199.1	195.6	188.6	178.0	169.2	160.4	151.6	146.3	141.0	139.2
67.5°	192.2	192.2	188.6	179.8	172.7	162.1	153.3	146.3	139.2	135.7	132.1
68°	185.1	185.1	183.3	176.2	167.5	156.9	148.1	139.2	132.1	126.9	125.2
69°	172.7	174.5	171.0	163.9	155.2	144.6	135.7	128.7	121.7	116.3	112.8
70°	162.1	160.4	156.9	149.8	141.0	134.0	125.2	116.3	109.2	102.2	100.5
71°	148.1	148.1	144.6	139.2	130.4	121.7	112.8	105.7	98.7	89.9	88.2
72°	137.5	137.5	134.0	126.9	119.8	111.1	102.2	93.4	88.2	79.3	75.8
72.5°	130.4	132.1	128.7	121.7	114.6	104.0	96.9	89.9	81.1	74.0	70.5
73°	126.9	125.2	123.4	116.3	107.5	100.5	91.7	84.6	75.8	68.7	65.2



TEST NUMBER: P593648
 CATALOG NUMBER: HCC8S25D010MB-HM82555950-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	79.3	79.3	77.6	70.5	63.5	56.4	49.3	42.3	35.2	28.2	24.7
80°	54.7	56.4	52.9	49.3	44.1	37.0	30.0	24.7	17.7	14.1	10.6
82.5°	35.2	35.2	33.5	30.0	26.4	21.2	17.7	12.3	8.8	7.1	5.2
85°	17.7	19.4	17.7	15.8	12.3	10.6	8.8	5.2	3.5	1.7	1.7
87.5°	7.1	7.1	7.1	5.2	5.2	3.5	1.7	1.7	1.7	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: P593648

CATALOG NUMBER: HCC8S25D010MB-HM82555950-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1300.8	1300.8	1300.8	1300.8	1300.8	1300.8	1300.8	1300.8	1300.8	1300.8
2.5°	1295.4	1295.4	1291.9	1290.2	1288.5	1286.7	1285.0	1283.1	1283.1	1285.0
5°	1285.0	1281.4	1274.4	1272.6	1267.3	1265.5	1262.0	1260.2	1262.0	1260.2
7.5°	1269.0	1262.0	1253.2	1249.7	1242.6	1239.1	1233.8	1233.8	1230.3	1232.0
10°	1247.9	1237.3	1226.8	1219.7	1214.4	1209.1	1205.6	1202.0	1200.3	1200.3
12.5°	1221.5	1209.1	1198.5	1188.0	1179.1	1175.6	1168.5	1168.5	1165.0	1163.3
15°	1191.6	1175.6	1163.3	1152.7	1145.6	1138.6	1133.3	1129.8	1126.3	1126.3
17.5°	1152.7	1138.6	1126.3	1114.0	1103.4	1098.0	1092.8	1087.5	1087.5	1084.0
20°	1110.4	1094.6	1084.0	1071.6	1062.8	1054.1	1047.0	1047.0	1043.5	1045.2
22.5°	1062.8	1043.5	1032.9	1024.1	1015.2	1008.2	1001.1	1001.1	999.4	997.7
25°	1010.0	994.1	981.7	971.1	965.9	958.8	957.1	953.6	951.8	951.8
27.5°	953.6	941.2	925.3	920.1	913.0	909.5	909.5	907.7	904.2	906.0
30°	893.7	879.5	870.8	867.2	860.2	860.2	858.4	854.8	854.8	856.6
32.5°	835.5	821.3	814.3	812.6	805.5	805.5	803.8	805.5	805.5	807.2
35°	772.0	759.7	757.9	752.6	750.8	750.8	750.8	754.4	757.9	752.6
37.5°	712.1	703.3	698.0	696.2	698.0	698.0	699.8	705.0	703.3	701.5
40°	650.3	643.4	639.9	639.9	643.4	646.8	646.8	652.2	653.9	652.2
42.5°	588.7	583.4	583.4	585.2	588.7	590.4	595.8	601.0	602.8	604.6
45°	530.5	530.5	530.5	532.3	534.0	537.6	544.6	549.9	551.7	553.4
47.5°	474.1	472.4	477.6	479.5	484.7	486.4	491.8	498.8	500.5	502.4
50°	421.3	424.8	426.5	431.9	435.4	435.4	442.4	446.0	451.2	451.2
52.5°	371.9	377.2	379.0	384.2	386.1	387.8	391.3	396.5	400.1	400.1
55°	327.8	329.6	333.1	334.9	340.2	342.0	345.5	347.2	352.6	350.7
56°	308.5	312.0	313.7	317.3	320.8	322.6	326.0	327.8	331.4	333.1
57°	290.8	292.5	297.9	299.6	303.1	303.1	305.0	310.2	310.2	312.0
58°	273.2	276.7	278.5	280.2	283.8	285.6	289.1	290.8	292.5	290.8
59°	257.3	259.0	260.9	260.9	264.4	264.4	269.6	273.2	275.0	275.0
60°	241.5	241.5	243.2	245.0	248.6	250.3	250.3	253.8	253.8	253.8
61°	225.7	225.7	227.4	229.1	230.9	230.9	234.4	234.4	236.1	238.0
62°	211.5	209.7	209.7	211.5	211.5	215.1	216.8	218.6	220.3	218.6
63°	195.6	193.9	193.9	193.9	193.9	197.4	197.4	199.1	202.7	200.9
64°	178.0	178.0	178.0	178.0	179.8	179.8	183.3	185.1	186.8	188.6
65°	165.6	162.1	160.4	160.4	162.1	163.9	165.6	167.5	169.2	169.2
66°	151.6	148.1	146.3	146.3	146.3	146.3	149.8	149.8	153.3	153.3
67°	135.7	132.1	130.4	128.7	128.7	128.7	134.0	132.1	132.1	132.1
67.5°	130.4	125.2	123.4	121.7	119.8	123.4	121.7	123.4	123.4	121.7
68°	123.4	119.8	116.3	112.8	112.8	112.8	114.6	116.3	114.6	112.8
69°	109.2	107.5	102.2	98.7	96.9	98.7	96.9	98.7	96.9	98.7
70°	96.9	91.7	86.3	84.6	82.8	82.8	82.8	81.1	82.8	81.1
71°	84.6	79.3	74.0	70.5	68.7	68.7	67.0	68.7	67.0	68.7
72°	72.2	67.0	59.9	56.4	56.4	56.4	56.4	54.7	56.4	54.7
72.5°	67.0	59.9	54.7	51.1	49.3	49.3	49.3	49.3	47.6	49.3
73°	61.7	54.7	47.6	45.8	45.8	45.8	44.1	42.3	44.1	44.1



TEST NUMBER: P593648
CATALOG NUMBER: HCC8S25D010MB-HM82555950-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	21.2	15.8	14.1	14.1	14.1	14.1	14.1	14.1	12.3	12.3
80°	8.8	7.1	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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°	114.6	114.6	111.1	105.7	96.9	88.2	81.1	74.0	65.2	56.4	52.9
75°	105.7	104.0	100.5	95.2	88.2	79.3	72.2	63.5	56.4	47.6	44.1

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°	51.1	42.3	38.7	35.2	35.2	35.2	33.5	33.5	33.5	35.2
75°	40.6	33.5	30.0	26.4	28.2	26.4	28.2	26.4	26.4	26.4

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

Scaled Data Report



(END OF REPORT)