

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: P584141

Luminaire Tested: **HCC8S25D010SL-HM82555835-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584141
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: HCC8S25D010SL-HM82555835-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

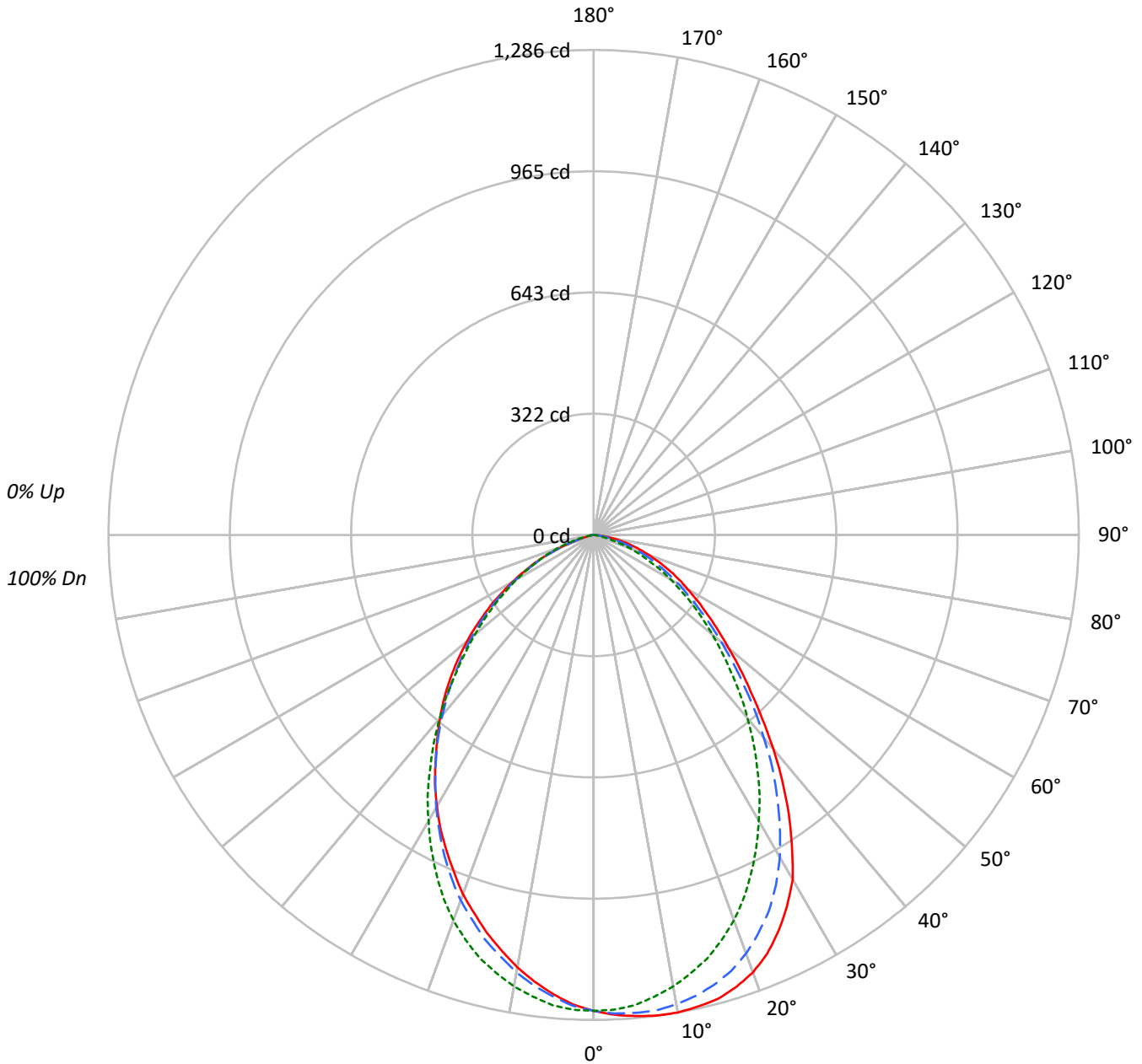
Lumens per Lamp: N/A
Luminaire Lumens: 2365.7 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584141
CATALOG NUMBER: HCC8S25D010SL-HM82555835-81RWWH

Luminous Intensity Polar Plot





TEST NUMBER: P584141

CATALOG NUMBER: HCC8S25D010SL-HM82555835-81RWWH

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°	38915	38915	38915
5°	39643	38745	37844
10°	40261	38066	36463
15°	40665	37121	34880
20°	40514	35687	33271
25°	39444	33629	31414
30°	37565	31174	29589
35°	33925	28448	27488
40°	29804	25537	25469
45°	25725	22446	23414
50°	22394	19683	20998
55°	19859	17096	18295
60°	17719	14444	15184
65°	15965	11725	11974
70°	14182	8791	7087
75°	12224	5099	3062
80°	9412	1829	906
85°	6050	601	601

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P584141

CATALOG NUMBER: HCC8S25D010SL-HM82555835-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	5.0
10°-20°	329.8	13.9
20°-30°	466.4	19.7
30°-40°	491.5	20.8
40°-50°	417.7	17.7
50°-60°	300.8	12.7
60°-70°	173.5	7.3
70°-80°	59.4	2.5
80°-90°	8.2	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°	914.7	38.7
0°-40°	1406.1	59.4
0°-60°	2124.6	89.8
0°-90°	2365.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2365.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1262	1262	1262	1262	1262	
5°	1281	1272	1252	1229	1223	122
15°	1274	1235	1163	1111	1093	359
25°	1159	1099	988	937	923	532
35°	901	848	756	728	730	561
45°	590	563	515	518	537	458
55°	369	340	318	330	340	332
65°	219	188	161	157	164	218
75°	103	77	43	27	26	108
85°	17	10	2	2	2	23
90°	0	0	0	0	0	

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



TEST NUMBER: P584141

CATALOG NUMBER: HCC8S25D010SL-HM82555835-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0
2.5°	1273.8	1275.5	1273.8	1273.8	1272.1	1270.4	1268.7	1267.0	1263.6	1260.2	1260.2
5°	1280.7	1284.1	1280.7	1280.7	1275.5	1272.1	1268.7	1263.6	1256.8	1251.7	1251.7
7.5°	1285.8	1285.8	1285.8	1280.7	1277.3	1272.1	1263.6	1255.1	1243.1	1231.1	1219.2
10°	1285.8	1285.8	1284.1	1277.3	1273.8	1263.6	1255.1	1243.1	1231.1	1219.2	1215.7
12.5°	1280.7	1282.4	1279.0	1272.1	1263.6	1251.7	1239.7	1224.3	1210.6	1196.9	1190.1
15°	1273.8	1272.1	1268.7	1260.2	1250.0	1234.6	1222.6	1205.5	1186.6	1169.6	1162.8
17.5°	1256.8	1256.8	1251.7	1243.1	1229.4	1212.3	1193.5	1174.8	1154.2	1135.4	1126.8
20°	1234.6	1234.6	1227.7	1217.4	1203.8	1181.5	1161.1	1138.8	1114.8	1096.0	1087.5
22.5°	1202.0	1203.8	1195.2	1183.2	1167.9	1142.2	1121.7	1094.3	1070.4	1048.2	1041.3
25°	1159.3	1162.8	1154.2	1142.2	1121.7	1099.4	1073.9	1048.2	1020.8	998.6	988.4
27.5°	1109.7	1111.4	1102.8	1090.9	1070.4	1046.5	1020.8	993.5	967.8	943.8	933.6
30°	1055.0	1048.2	1044.7	1029.3	1007.1	986.6	957.5	935.3	908.0	887.5	875.5
32.5°	978.1	981.5	971.2	959.3	942.1	918.2	894.3	868.6	842.9	827.6	819.1
35°	901.2	904.6	899.4	887.5	868.6	848.1	824.2	805.4	783.1	764.3	755.7
37.5°	820.8	820.8	817.4	810.5	796.8	778.0	754.0	735.3	716.5	701.1	695.9
40°	740.4	737.0	735.3	730.2	718.2	701.1	685.7	670.2	651.5	641.3	634.4
42.5°	661.7	661.7	658.3	653.2	641.3	632.7	617.3	600.2	586.5	576.2	576.2
45°	589.9	591.6	586.5	583.0	576.2	562.6	548.9	536.9	524.9	518.1	514.7
47.5°	526.7	526.7	521.5	518.1	511.2	499.3	487.3	477.1	468.6	463.4	461.7
50°	466.8	466.8	466.8	458.3	449.7	441.2	432.6	420.6	415.5	412.1	410.3
52.5°	415.5	413.8	413.8	406.9	398.4	388.2	379.6	369.4	364.2	360.8	362.5
55°	369.4	369.4	367.7	359.1	350.5	340.3	331.7	323.1	319.7	316.3	318.0
56°	350.5	350.5	348.8	342.0	331.7	323.1	312.9	304.4	299.3	301.0	301.0
57°	336.8	333.4	333.4	324.9	316.3	304.4	295.9	287.3	283.9	282.2	282.2
58°	319.7	318.0	316.3	307.7	299.3	289.0	280.4	271.9	266.8	266.8	265.0
59°	302.7	302.7	299.3	292.4	283.9	273.6	265.0	256.5	251.3	249.6	249.6
60°	287.3	289.0	283.9	277.0	270.2	258.2	247.9	241.1	235.9	234.2	234.2
61°	273.6	273.6	270.2	261.6	253.1	244.5	234.2	225.7	222.2	218.8	218.8
62°	261.6	258.2	256.5	247.9	239.4	229.1	220.5	212.1	206.9	203.5	205.2
63°	246.2	244.5	241.1	234.2	225.7	215.5	205.2	198.4	193.2	188.1	189.8
64°	234.2	232.5	227.4	220.5	212.1	201.8	191.5	184.7	181.3	176.1	174.4
65°	218.8	217.2	215.5	206.9	198.4	188.1	179.5	172.7	167.6	164.1	160.7
66°	205.2	206.9	203.5	196.7	186.4	177.8	165.9	159.0	155.6	150.4	147.0
67°	193.2	193.2	189.8	183.0	172.7	164.1	155.6	147.0	141.9	136.7	135.0
67.5°	186.4	186.4	183.0	174.4	167.6	157.3	148.7	141.9	135.0	131.6	128.3
68°	179.5	179.5	177.8	171.0	162.4	152.2	143.6	135.0	128.3	123.2	121.4
69°	167.6	169.3	165.9	159.0	150.4	140.2	131.6	124.9	118.0	112.9	109.5
70°	157.3	155.6	152.2	145.3	136.7	130.0	121.4	112.9	106.0	99.2	97.5
71°	143.6	143.6	140.2	135.0	126.6	118.0	109.5	102.6	95.8	87.2	85.5
72°	133.3	133.3	130.0	123.2	116.3	107.7	99.2	90.6	85.5	76.9	73.5
72.5°	126.6	128.3	124.9	118.0	111.2	100.9	94.1	87.2	78.6	71.8	68.4
73°	123.2	121.4	119.7	112.9	104.3	97.5	88.9	82.1	73.5	66.7	63.2



TEST NUMBER: P584141
 CATALOG NUMBER: HCC8S25D010SL-HM82555835-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	76.9	76.9	75.2	68.4	61.5	54.7	47.8	41.1	34.2	27.4	24.0
80°	53.0	54.7	51.3	47.8	42.8	36.0	29.1	24.0	17.1	13.7	10.3
82.5°	34.2	34.2	32.5	29.1	25.7	20.5	17.1	12.0	8.6	6.8	5.1
85°	17.1	18.8	17.1	15.4	12.0	10.3	8.6	5.1	3.4	1.7	1.7
87.5°	6.8	6.8	6.8	5.1	5.1	3.4	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

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



TEST NUMBER: P584141

CATALOG NUMBER: HCC8S25D010SL-HM82555835-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0
2.5°	1256.8	1256.8	1253.4	1251.7	1250.0	1248.3	1246.6	1244.8	1244.8	1246.6
5°	1246.6	1243.1	1236.3	1234.6	1229.4	1227.7	1224.3	1222.6	1224.3	1222.6
7.5°	1231.1	1224.3	1215.7	1212.3	1205.5	1202.0	1196.9	1196.9	1193.5	1195.2
10°	1210.6	1200.3	1190.1	1183.2	1178.1	1173.0	1169.6	1166.2	1164.5	1164.5
12.5°	1184.9	1173.0	1162.8	1152.5	1143.9	1140.5	1133.7	1133.7	1130.2	1128.5
15°	1155.9	1140.5	1128.5	1118.3	1111.4	1104.6	1099.4	1096.0	1092.6	1092.6
17.5°	1118.3	1104.6	1092.6	1080.7	1070.4	1065.3	1060.2	1055.0	1055.0	1051.6
20°	1077.3	1061.9	1051.6	1039.6	1031.1	1022.5	1015.6	1015.6	1012.2	1013.9
22.5°	1031.1	1012.2	1001.9	993.5	984.9	978.1	971.2	971.2	969.5	967.8
25°	979.8	964.4	952.4	942.1	937.0	930.2	928.4	925.0	923.3	923.3
27.5°	925.0	913.1	897.7	892.6	885.7	882.3	882.3	880.6	877.2	878.9
30°	866.9	853.2	844.7	841.2	834.4	834.4	832.7	829.2	829.2	831.0
32.5°	810.5	796.8	790.0	788.3	781.4	781.4	779.7	781.4	781.4	783.1
35°	748.9	737.0	735.3	730.2	728.5	728.5	728.5	731.9	735.3	730.2
37.5°	690.8	682.2	677.1	675.4	677.1	677.1	678.8	683.9	682.2	680.5
40°	631.0	624.1	620.7	620.7	624.1	627.6	627.6	632.7	634.4	632.7
42.5°	571.1	566.0	566.0	567.6	571.1	572.8	577.9	583.0	584.8	586.5
45°	514.7	514.7	514.7	516.4	518.1	521.5	528.4	533.5	535.2	536.9
47.5°	460.0	458.3	463.4	465.1	470.3	472.0	477.1	483.9	485.6	487.3
50°	408.6	412.1	413.8	418.9	422.3	422.3	429.2	432.6	437.7	437.7
52.5°	360.8	365.9	367.7	372.8	374.5	376.2	379.6	384.8	388.2	388.2
55°	318.0	319.7	323.1	324.9	330.0	331.7	335.1	336.8	342.0	340.3
56°	299.3	302.7	304.4	307.7	311.2	312.9	316.3	318.0	321.4	323.1
57°	282.2	283.9	289.0	290.7	294.1	294.1	295.9	301.0	301.0	302.7
58°	265.0	268.5	270.2	271.9	275.3	277.0	280.4	282.2	283.9	282.2
59°	249.6	251.3	253.1	253.1	256.5	256.5	261.6	265.0	266.8	266.8
60°	234.2	234.2	235.9	237.6	241.1	242.8	242.8	246.2	246.2	246.2
61°	218.8	218.8	220.5	222.2	224.0	224.0	227.4	227.4	229.1	230.8
62°	205.2	203.5	203.5	205.2	205.2	208.6	210.4	212.1	213.8	212.1
63°	189.8	188.1	188.1	188.1	188.1	191.5	191.5	193.2	196.7	195.0
64°	172.7	172.7	172.7	172.7	174.4	174.4	177.8	179.5	181.3	183.0
65°	160.7	157.3	155.6	155.6	157.3	159.0	160.7	162.4	164.1	164.1
66°	147.0	143.6	141.9	141.9	141.9	141.9	145.3	145.3	148.7	148.7
67°	131.6	128.3	126.6	124.9	124.9	124.9	130.0	128.3	128.3	128.3
67.5°	126.6	121.4	119.7	118.0	116.3	119.7	118.0	119.7	119.7	118.0
68°	119.7	116.3	112.9	109.5	109.5	109.5	111.2	112.9	111.2	109.5
69°	106.0	104.3	99.2	95.8	94.1	95.8	94.1	95.8	94.1	95.8
70°	94.1	88.9	83.8	82.1	80.4	80.4	80.4	78.6	80.4	78.6
71°	82.1	76.9	71.8	68.4	66.7	66.7	64.9	66.7	64.9	66.7
72°	70.1	64.9	58.1	54.7	54.7	54.7	54.7	53.0	54.7	53.0
72.5°	64.9	58.1	53.0	49.5	47.8	47.8	47.8	47.8	46.1	47.8
73°	59.8	53.0	46.1	44.4	44.4	44.4	42.8	41.1	42.8	42.8



TEST NUMBER: P584141
 CATALOG NUMBER: HCC8S25D010SL-HM82555835-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	20.5	15.4	13.7	13.7	13.7	13.7	13.7	13.7	12.0	12.0
80°	8.6	6.8	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



74°	111.2	111.2	107.7	102.6	94.1	85.5	78.6	71.8	63.2	54.7	51.3
75°	102.6	100.9	97.5	92.3	85.5	76.9	70.1	61.5	54.7	46.1	42.8

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°	49.5	41.1	37.7	34.2	34.2	34.2	32.5	32.5	32.5	34.2
75°	39.4	32.5	29.1	25.7	27.4	25.7	27.4	25.7	25.7	25.7

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

Scaled Data Report



(END OF REPORT)