

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: P584107

Luminaire Tested: **HCC8W25D010BZ-HM82555827-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584107  
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: HCC8W25D010BZ-HM82555827-81RWWH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

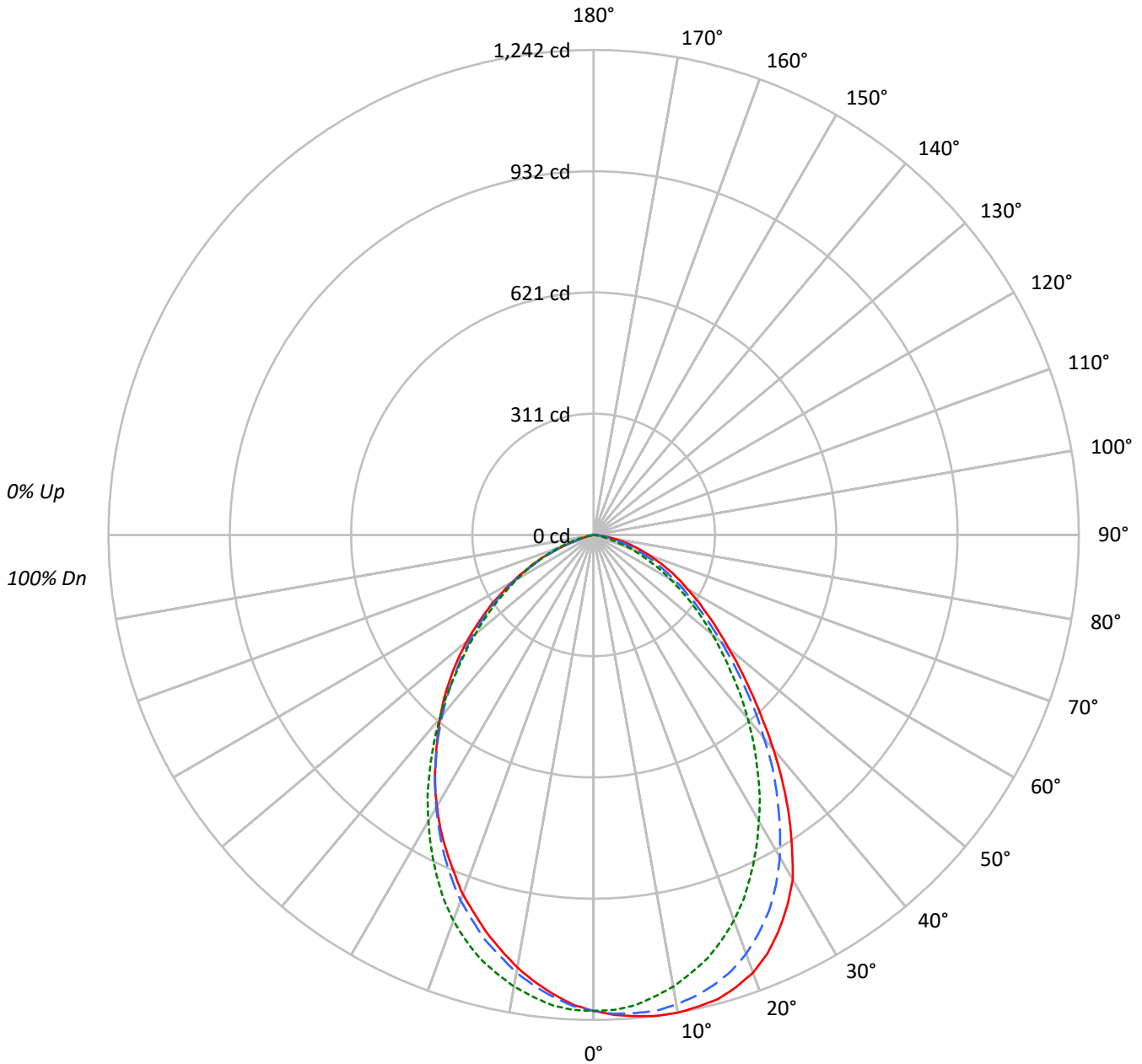
Lumens per Lamp: N/A  
Luminaire Lumens: 2285.4 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584107  
CATALOG NUMBER: HCC8W25D010BZ-HM82555827-81RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P584107

CATALOG NUMBER: HCC8W25D010BZ-HM82555827-81RWWH

**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°	37593	37593	37593
5°	38296	37430	36560
10°	38896	36776	35223
15°	39286	35860	33699
20°	39136	34476	32146
25°	38107	32486	30353
30°	36290	30113	28585
35°	32773	27488	26550
40°	28794	24672	24603
45°	24853	21682	22620
50°	21636	19016	20288
55°	19182	16516	17671
60°	17120	13957	14672
65°	15425	11331	11572
70°	13695	8493	6852
75°	11807	4921	2955
80°	9110	1776	870
85°	5838	566	566



TEST NUMBER: P584107  
 CATALOG NUMBER: HCC8W25D010BZ-HM82555827-81RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.4	5.0
10°-20°	318.6	13.9
20°-30°	450.6	19.7
30°-40°	474.8	20.8
40°-50°	403.5	17.7
50°-60°	290.6	12.7
60°-70°	167.6	7.3
70°-80°	57.4	2.5
80°-90°	7.9	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°	883.6	38.7
0°-40°	1358.4	59.4
0°-60°	2052.5	89.8
0°-90°	2285.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2285.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1219	1219	1219	1219	1219	
5°	1237	1229	1209	1188	1181	118
15°	1231	1193	1123	1074	1056	347
25°	1120	1062	955	905	892	514
35°	871	819	730	704	705	542
45°	570	544	497	500	519	443
55°	357	329	307	319	329	321
65°	211	182	155	152	159	210
75°	99	74	41	26	25	105
85°	16	10	2	2	2	22
90°	0	0	0	0	0	



TEST NUMBER: P584107

CATALOG NUMBER: HCC8W25D010BZ-HM82555827-81RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1
2.5°	1230.6	1232.3	1230.6	1230.6	1229.0	1227.4	1225.7	1224.1	1220.8	1217.4	1217.4
5°	1237.2	1240.6	1237.2	1237.2	1232.3	1229.0	1225.7	1220.8	1214.1	1209.2	1209.2
7.5°	1242.2	1242.2	1242.2	1237.2	1233.9	1229.0	1220.8	1212.5	1204.2	1195.9	1192.6
10°	1242.2	1242.2	1240.6	1233.9	1230.6	1220.8	1212.5	1201.0	1189.3	1177.7	1174.5
12.5°	1237.2	1239.0	1235.6	1229.0	1220.8	1209.2	1197.7	1182.8	1169.5	1156.3	1149.7
15°	1230.6	1229.0	1225.7	1217.4	1207.5	1192.6	1181.1	1164.6	1146.4	1129.9	1123.3
17.5°	1214.1	1214.1	1209.2	1201.0	1187.7	1171.2	1153.0	1134.8	1115.0	1096.9	1088.6
20°	1192.6	1192.6	1186.1	1176.1	1162.9	1141.5	1121.7	1100.2	1077.1	1058.9	1050.6
22.5°	1161.3	1162.9	1154.6	1143.1	1128.2	1103.5	1083.6	1057.2	1034.0	1012.6	1006.0
25°	1120.0	1123.3	1115.0	1103.5	1083.6	1062.2	1037.4	1012.6	986.2	964.7	954.8
27.5°	1072.0	1073.7	1065.5	1054.0	1034.0	1010.9	986.2	959.8	935.0	911.9	901.9
30°	1019.2	1012.6	1009.3	994.5	973.0	953.2	925.0	903.6	877.2	857.3	845.7
32.5°	944.9	948.2	938.3	926.7	910.1	887.0	863.9	839.2	814.4	799.5	791.3
35°	870.6	873.9	868.8	857.3	839.2	819.3	796.2	778.0	756.6	738.4	730.2
37.5°	792.9	792.9	789.6	783.0	769.8	751.6	728.5	710.3	692.2	677.3	672.3
40°	715.3	712.0	710.3	705.3	693.8	677.3	662.4	647.6	629.4	619.4	612.9
42.5°	639.3	639.3	636.0	631.0	619.4	611.2	596.3	579.8	566.6	556.7	556.7
45°	569.9	571.6	566.6	563.2	556.7	543.5	530.3	518.7	507.2	500.5	497.2
47.5°	508.8	508.8	503.9	500.5	493.9	482.4	470.8	460.8	452.6	447.7	446.0
50°	451.0	451.0	451.0	442.7	434.4	426.2	417.9	406.4	401.4	398.1	396.4
52.5°	401.4	399.8	399.8	393.1	384.9	374.9	366.7	356.8	351.8	348.5	350.2
55°	356.8	356.8	355.1	346.9	338.7	328.7	320.5	312.2	308.9	305.6	307.2
56°	338.7	338.7	336.9	330.4	320.5	312.2	302.3	294.0	289.1	290.7	290.7
57°	325.4	322.1	322.1	313.8	305.6	294.0	285.8	277.6	274.2	272.5	272.5
58°	308.9	307.2	305.6	297.4	289.1	279.2	270.9	262.7	257.7	257.7	256.1
59°	292.4	292.4	289.1	282.5	274.2	264.3	256.1	247.8	242.8	241.2	241.2
60°	277.6	279.2	274.2	267.6	261.0	249.4	239.6	232.9	227.9	226.3	226.3
61°	264.3	264.3	261.0	252.7	244.5	236.3	226.3	218.1	214.7	211.4	211.4
62°	252.7	249.4	247.8	239.6	231.2	221.4	213.1	204.8	199.9	196.6	198.3
63°	237.9	236.3	232.9	226.3	218.1	208.1	198.3	191.6	186.7	181.7	183.4
64°	226.3	224.7	219.7	213.1	204.8	195.0	185.0	178.4	175.1	170.1	168.5
65°	211.4	209.8	208.1	199.9	191.6	181.7	173.4	166.8	161.9	158.6	155.3
66°	198.3	199.9	196.6	189.9	180.1	171.8	160.3	153.7	150.3	145.4	142.1
67°	186.7	186.7	183.4	176.8	166.8	158.6	150.3	142.1	137.1	132.1	130.5
67.5°	180.1	180.1	176.8	168.5	161.9	151.9	143.7	137.1	130.5	127.2	123.9
68°	173.4	173.4	171.8	165.2	157.0	147.0	138.8	130.5	123.9	119.0	117.3
69°	161.9	163.5	160.3	153.7	145.4	135.5	127.2	120.6	114.0	109.0	105.7
70°	151.9	150.3	147.0	140.4	132.1	125.5	117.3	109.0	102.4	95.8	94.2
71°	138.8	138.8	135.5	130.5	122.2	114.0	105.7	99.1	92.6	84.2	82.6
72°	128.8	128.8	125.5	119.0	112.4	104.1	95.8	87.5	82.6	74.4	71.0
72.5°	122.2	123.9	120.6	114.0	107.3	97.5	90.8	84.2	76.0	69.3	66.1
73°	119.0	117.3	115.7	109.0	100.8	94.2	85.9	79.3	71.0	64.4	61.1



TEST NUMBER: P584107  
 CATALOG NUMBER: HCC8W25D010BZ-HM82555827-81RWWH

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	74.4	74.4	72.7	66.1	59.5	52.9	46.2	39.7	33.1	26.4	23.1
80°	51.3	52.9	49.5	46.2	41.3	34.7	28.0	23.1	16.5	13.3	10.0
82.5°	33.1	33.1	31.4	28.0	24.8	19.8	16.5	11.6	8.2	6.6	4.9
85°	16.5	18.2	16.5	14.9	11.6	10.0	8.2	4.9	3.3	1.6	1.6
87.5°	6.6	6.6	6.6	4.9	4.9	3.3	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

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



TEST NUMBER: P584107

CATALOG NUMBER: HCC8W25D010BZ-HM82555827-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1
2.5°	1214.1	1214.1	1210.8	1209.2	1207.5	1205.9	1204.2	1202.6	1202.6	1204.2
5°	1204.2	1201.0	1194.3	1192.6	1187.7	1186.1	1182.8	1181.1	1182.8	1181.1
7.5°	1189.3	1182.8	1174.5	1171.2	1164.6	1161.3	1156.3	1156.3	1153.0	1154.6
10°	1169.5	1159.7	1149.7	1143.1	1138.2	1133.2	1129.9	1126.6	1124.9	1124.9
12.5°	1144.8	1133.2	1123.3	1113.3	1105.1	1101.8	1095.1	1095.1	1091.9	1090.2
15°	1116.7	1101.8	1090.2	1080.4	1073.7	1067.1	1062.2	1058.9	1055.6	1055.6
17.5°	1080.4	1067.1	1055.6	1044.0	1034.0	1029.1	1024.2	1019.2	1019.2	1015.9
20°	1040.7	1025.8	1015.9	1004.3	996.1	987.8	981.2	981.2	977.9	979.6
22.5°	996.1	977.9	968.0	959.8	951.4	944.9	938.3	938.3	936.6	935.0
25°	946.5	931.6	920.1	910.1	905.2	898.6	897.0	893.7	892.1	892.1
27.5°	893.7	882.1	867.2	862.3	855.7	852.4	852.4	850.8	847.4	849.0
30°	837.5	824.3	816.0	812.8	806.1	806.1	804.4	801.2	801.2	802.8
32.5°	783.0	769.8	763.1	761.5	754.9	754.9	753.3	754.9	754.9	756.6
35°	723.5	712.0	710.3	705.3	703.7	703.7	703.7	707.1	710.3	705.3
37.5°	667.4	659.1	654.2	652.5	654.2	654.2	655.8	660.7	659.1	657.4
40°	609.6	602.9	599.6	599.6	602.9	606.3	606.3	611.2	612.9	611.2
42.5°	551.7	546.8	546.8	548.4	551.7	553.4	558.3	563.2	565.0	566.6
45°	497.2	497.2	497.2	498.8	500.5	503.9	510.4	515.4	517.0	518.7
47.5°	444.4	442.7	447.7	449.3	454.2	455.9	460.8	467.5	469.1	470.8
50°	394.8	398.1	399.8	404.7	408.0	408.0	414.6	417.9	422.9	422.9
52.5°	348.5	353.5	355.1	360.2	361.8	363.4	366.7	371.7	374.9	374.9
55°	307.2	308.9	312.2	313.8	318.9	320.5	323.8	325.4	330.4	328.7
56°	289.1	292.4	294.0	297.4	300.7	302.3	305.6	307.2	310.5	312.2
57°	272.5	274.2	279.2	280.8	284.1	284.1	285.8	290.7	290.7	292.4
58°	256.1	259.4	261.0	262.7	266.0	267.6	270.9	272.5	274.2	272.5
59°	241.2	242.8	244.5	244.5	247.8	247.8	252.7	256.1	257.7	257.7
60°	226.3	226.3	227.9	229.6	232.9	234.5	234.5	237.9	237.9	237.9
61°	211.4	211.4	213.1	214.7	216.4	216.4	219.7	219.7	221.4	223.0
62°	198.3	196.6	196.6	198.3	198.3	201.5	203.2	204.8	206.5	204.8
63°	183.4	181.7	181.7	181.7	181.7	185.0	185.0	186.7	189.9	188.3
64°	166.8	166.8	166.8	166.8	168.5	168.5	171.8	173.4	175.1	176.8
65°	155.3	151.9	150.3	150.3	151.9	153.7	155.3	157.0	158.6	158.6
66°	142.1	138.8	137.1	137.1	137.1	137.1	140.4	140.4	143.7	143.7
67°	127.2	123.9	122.2	120.6	120.6	120.6	125.5	123.9	123.9	123.9
67.5°	122.2	117.3	115.7	114.0	112.4	115.7	114.0	115.7	115.7	114.0
68°	115.7	112.4	109.0	105.7	105.7	105.7	107.3	109.0	107.3	105.7
69°	102.4	100.8	95.8	92.6	90.8	92.6	90.8	92.6	90.8	92.6
70°	90.8	85.9	80.9	79.3	77.7	77.7	77.7	76.0	77.7	76.0
71°	79.3	74.4	69.3	66.1	64.4	64.4	62.8	64.4	62.8	64.4
72°	67.7	62.8	56.2	52.9	52.9	52.9	52.9	51.3	52.9	51.3
72.5°	62.8	56.2	51.3	47.9	46.2	46.2	46.2	46.2	44.6	46.2
73°	57.8	51.3	44.6	42.9	42.9	42.9	41.3	39.7	41.3	41.3





TEST NUMBER: P584107  
CATALOG NUMBER: HCC8W25D010BZ-HM82555827-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	19.8	14.9	13.3	13.3	13.3	13.3	13.3	13.3	11.6	11.6
80°	8.2	6.6	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



74°	107.3	107.3	104.1	99.1	90.8	82.6	76.0	69.3	61.1	52.9	49.5
75°	99.1	97.5	94.2	89.2	82.6	74.4	67.7	59.5	52.9	44.6	41.3

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°	47.9	39.7	36.4	33.1	33.1	33.1	31.4	31.4	31.4	33.1
75°	38.0	31.4	28.0	24.8	26.4	24.8	26.4	24.8	24.8	24.8

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

Scaled Data Report



(END OF REPORT)