

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: P584345

Luminaire Tested: **HCC8S30D010MW-HM82555935-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584345  
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: HCC8S30D010MW-HM82555935-81RWWH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

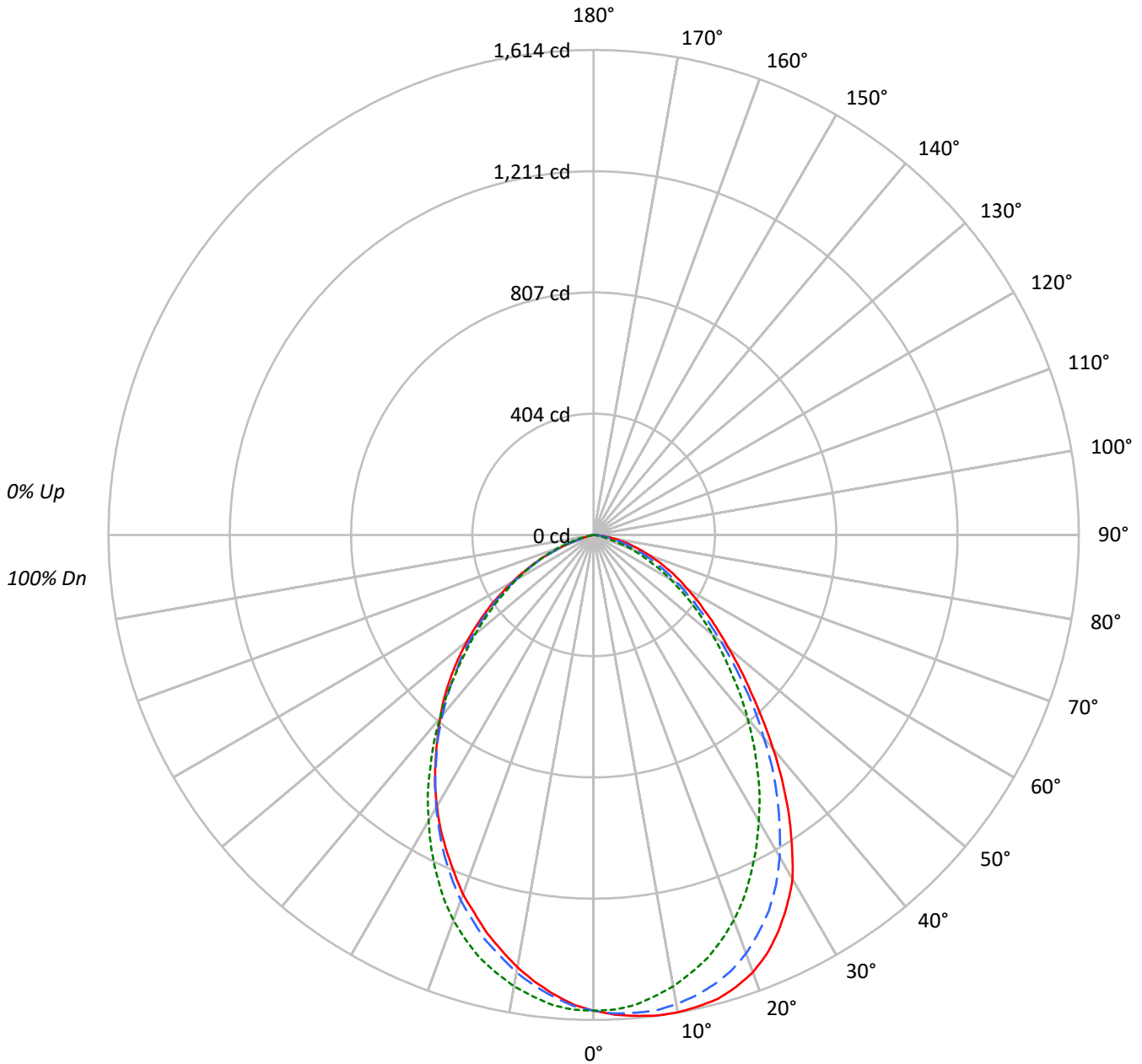
Lumens per Lamp: N/A  
Luminaire Lumens: 2968.3 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P584345  
CATALOG NUMBER: HCC8S30D010MW-HM82555935-81RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P584345

CATALOG NUMBER: HCC8S30D010MW-HM82555935-81RWWH

**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°	48826	48826	48826
5°	49740	48617	47484
10°	50522	47766	45747
15°	51027	46574	43768
20°	50831	44777	41748
25°	49491	42193	39420
30°	47136	39114	37131
35°	42564	35698	34486
40°	37396	32042	31958
45°	32279	28158	29379
50°	28098	24706	26347
55°	24918	21451	22956
60°	22227	18126	19051
65°	20043	14717	15023
70°	17797	11026	8899
75°	15346	6386	3836
80°	11809	2273	1137
85°	7571	743	743



TEST NUMBER: P584345

CATALOG NUMBER: HCC8S30D010MW-HM82555935-81RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.6	5.0
10°-20°	413.8	13.9
20°-30°	585.2	19.7
30°-40°	616.7	20.8
40°-50°	524.1	17.7
50°-60°	377.4	12.7
60°-70°	217.7	7.3
70°-80°	74.5	2.5
80°-90°	10.2	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°	1147.7	38.7
0°-40°	1764.4	59.4
0°-60°	2665.9	89.8
0°-90°	2968.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2968.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1583	1583	1583	1583	1583	
5°	1607	1596	1571	1543	1534	154
15°	1598	1549	1459	1395	1371	450
25°	1455	1380	1240	1176	1159	667
35°	1131	1064	948	914	916	704
45°	740	706	646	650	674	575
55°	464	427	399	414	427	417
65°	275	236	202	197	206	273
75°	129	96	54	34	32	136
85°	21	13	2	2	2	29
90°	0	0	0	0	0	



TEST NUMBER: P584345

CATALOG NUMBER: HCC8S30D010MW-HM82555935-81RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1583.4	1583.4	1583.4	1583.4	1583.4	1583.4	1583.4	1583.4	1583.4	1583.4	1583.4
2.5°	1598.4	1600.5	1598.4	1598.4	1596.2	1594.1	1592.0	1589.8	1585.5	1581.3	1581.3
5°	1606.9	1611.3	1606.9	1606.9	1600.5	1596.2	1592.0	1585.5	1577.0	1570.6	1570.6
7.5°	1613.5	1613.5	1613.5	1606.9	1602.7	1596.2	1585.5	1574.8	1564.1	1553.3	1549.0
10°	1613.5	1613.5	1611.3	1602.7	1598.4	1585.5	1574.8	1559.7	1544.7	1529.8	1525.5
12.5°	1606.9	1609.1	1604.8	1596.2	1585.5	1570.6	1555.4	1536.2	1519.1	1501.8	1493.3
15°	1598.4	1596.2	1592.0	1581.3	1568.4	1549.0	1534.0	1512.5	1489.0	1467.6	1458.9
17.5°	1577.0	1577.0	1570.6	1559.7	1542.6	1521.2	1497.5	1474.0	1448.2	1424.7	1413.8
20°	1549.0	1549.0	1540.5	1527.6	1510.4	1482.6	1456.8	1428.9	1398.9	1375.3	1364.5
22.5°	1508.2	1510.4	1499.7	1484.7	1465.3	1433.2	1407.4	1373.2	1343.1	1315.2	1306.6
25°	1454.6	1458.9	1448.2	1433.2	1407.4	1379.6	1347.4	1315.2	1280.9	1253.0	1240.1
27.5°	1392.4	1394.6	1383.9	1368.8	1343.1	1313.0	1280.9	1246.5	1214.3	1184.4	1171.4
30°	1323.8	1315.2	1310.9	1291.6	1263.7	1238.0	1201.5	1173.5	1139.3	1113.5	1098.5
32.5°	1227.3	1231.6	1218.6	1203.6	1182.2	1152.1	1122.1	1090.0	1057.7	1038.5	1027.7
35°	1130.7	1135.0	1128.5	1113.5	1090.0	1064.2	1034.2	1010.5	982.6	959.0	948.3
37.5°	1029.8	1029.8	1025.5	1017.0	999.8	976.2	946.2	922.5	899.0	879.6	873.2
40°	929.0	924.7	922.5	916.1	901.1	879.6	860.4	841.0	817.4	804.6	796.0
42.5°	830.3	830.3	826.0	819.6	804.6	793.9	774.5	753.1	735.9	723.0	723.0
45°	740.2	742.3	735.9	731.6	723.0	705.9	688.7	673.7	658.7	650.1	645.7
47.5°	660.8	660.8	654.4	650.1	641.5	626.5	611.5	598.5	587.8	581.4	579.3
50°	585.7	585.7	585.7	575.0	564.3	553.6	542.8	527.8	521.4	517.1	515.0
52.5°	521.4	519.2	519.2	510.7	499.9	487.0	476.3	463.5	457.1	452.7	454.8
55°	463.5	463.5	461.3	450.5	439.8	427.0	416.3	405.4	401.2	396.9	399.0
56°	439.8	439.8	437.7	429.1	416.3	405.4	392.6	381.9	375.5	377.6	377.6
57°	422.7	418.4	418.4	407.6	396.9	381.9	371.2	360.4	356.1	354.0	354.0
58°	401.2	399.0	396.9	386.2	375.5	362.6	351.8	341.1	334.7	334.7	332.6
59°	379.8	379.8	375.5	366.9	356.1	343.3	332.6	321.9	315.4	313.3	313.3
60°	360.4	362.6	356.1	347.5	339.0	324.0	311.0	302.5	296.1	293.9	293.9
61°	343.3	343.3	339.0	328.3	317.6	306.8	293.9	283.2	278.9	274.7	274.7
62°	328.3	324.0	321.9	311.0	300.3	287.5	276.8	266.1	259.6	255.3	257.4
63°	308.9	306.8	302.5	293.9	283.2	270.4	257.4	248.9	242.4	236.0	238.2
64°	293.9	291.8	285.4	276.8	266.1	253.1	240.3	231.7	227.5	221.0	218.9
65°	274.7	272.5	270.4	259.6	248.9	236.0	225.3	216.8	210.2	205.9	201.7
66°	257.4	259.6	255.3	246.7	233.9	223.2	208.1	199.5	195.2	188.8	184.5
67°	242.4	242.4	238.2	229.6	216.8	205.9	195.2	184.5	178.1	171.7	169.6
67.5°	233.9	233.9	229.6	218.9	210.2	197.4	186.7	178.1	169.6	165.2	160.9
68°	225.3	225.3	223.2	214.5	203.8	191.0	180.3	169.6	160.9	154.5	152.3
69°	210.2	212.4	208.1	199.5	188.8	176.0	165.2	156.6	148.0	141.6	137.3
70°	197.4	195.2	191.0	182.4	171.7	163.0	152.3	141.6	133.0	124.5	122.3
71°	180.3	180.3	176.0	169.6	158.7	148.0	137.3	128.8	120.1	109.4	107.2
72°	167.3	167.3	163.0	154.5	145.9	135.2	124.5	113.7	107.2	96.5	92.3
72.5°	158.7	160.9	156.6	148.0	139.5	126.6	117.9	109.4	98.7	90.1	85.8
73°	154.5	152.3	150.2	141.6	130.9	122.3	111.5	103.0	92.3	83.7	79.4



TEST NUMBER: P584345  
 CATALOG NUMBER: HCC8S30D010MW-HM82555935-81RWWH

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	96.5	96.5	94.4	85.8	77.3	68.6	60.0	51.5	42.9	34.4	30.1
80°	66.5	68.6	64.3	60.0	53.6	45.1	36.5	30.1	21.4	17.1	12.8
82.5°	42.9	42.9	40.8	36.5	32.2	25.8	21.4	15.0	10.7	8.6	6.4
85°	21.4	23.5	21.4	19.3	15.0	12.8	10.7	6.4	4.3	2.1	2.1
87.5°	8.6	8.6	8.6	6.4	6.4	4.3	2.1	2.1	2.1	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: P584345

CATALOG NUMBER: HCC8S30D010MW-HM82555935-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1583.4	1583.4	1583.4	1583.4	1583.4	1583.4	1583.4	1583.4	1583.4	1583.4
2.5°	1577.0	1577.0	1572.7	1570.6	1568.4	1566.3	1564.1	1561.9	1561.9	1564.1
5°	1564.1	1559.7	1551.2	1549.0	1542.6	1540.5	1536.2	1534.0	1536.2	1534.0
7.5°	1544.7	1536.2	1525.5	1521.2	1512.5	1508.2	1501.8	1501.8	1497.5	1499.7
10°	1519.1	1506.1	1493.3	1484.7	1478.3	1471.9	1467.6	1463.2	1461.0	1461.0
12.5°	1486.8	1471.9	1458.9	1446.1	1435.4	1431.1	1422.5	1422.5	1418.1	1416.0
15°	1450.3	1431.1	1416.0	1403.1	1394.6	1386.0	1379.6	1375.3	1371.0	1371.0
17.5°	1403.1	1386.0	1371.0	1355.9	1343.1	1336.7	1330.3	1323.8	1323.8	1319.4
20°	1351.7	1332.4	1319.4	1304.5	1293.8	1283.0	1274.4	1274.4	1270.1	1272.2
22.5°	1293.8	1270.1	1257.2	1246.5	1235.8	1227.3	1218.6	1218.6	1216.5	1214.3
25°	1229.4	1210.0	1195.1	1182.2	1175.7	1167.1	1165.0	1160.7	1158.6	1158.6
27.5°	1160.7	1145.7	1126.3	1119.9	1111.4	1107.1	1107.1	1104.9	1100.7	1102.8
30°	1087.8	1070.6	1059.9	1055.6	1047.0	1047.0	1044.9	1040.6	1040.6	1042.8
32.5°	1017.0	999.8	991.3	989.1	980.4	980.4	978.3	980.4	980.4	982.6
35°	939.8	924.7	922.5	916.1	914.0	914.0	914.0	918.3	922.5	916.1
37.5°	866.8	856.1	849.7	847.5	849.7	849.7	851.8	858.2	856.1	853.9
40°	791.6	783.1	778.8	778.8	783.1	787.4	787.4	793.9	796.0	793.9
42.5°	716.6	710.2	710.2	712.3	716.6	718.8	725.2	731.6	733.7	735.9
45°	645.7	645.7	645.7	647.9	650.1	654.4	663.0	669.4	671.5	673.7
47.5°	577.1	575.0	581.4	583.6	590.0	592.1	598.5	607.2	609.4	611.5
50°	512.8	517.1	519.2	525.7	529.9	529.9	538.5	542.8	549.2	549.2
52.5°	452.7	459.2	461.3	467.8	469.9	472.0	476.3	482.7	487.0	487.0
55°	399.0	401.2	405.4	407.6	414.1	416.3	420.5	422.7	429.1	427.0
56°	375.5	379.8	381.9	386.2	390.5	392.6	396.9	399.0	403.3	405.4
57°	354.0	356.1	362.6	364.8	369.1	369.1	371.2	377.6	377.6	379.8
58°	332.6	336.8	339.0	341.1	345.4	347.5	351.8	354.0	356.1	354.0
59°	313.3	315.4	317.6	317.6	321.9	321.9	328.3	332.6	334.7	334.7
60°	293.9	293.9	296.1	298.2	302.5	304.6	304.6	308.9	308.9	308.9
61°	274.7	274.7	276.8	278.9	281.1	281.1	285.4	285.4	287.5	289.6
62°	257.4	255.3	255.3	257.4	257.4	261.7	263.8	266.1	268.2	266.1
63°	238.2	236.0	236.0	236.0	236.0	240.3	240.3	242.4	246.7	244.6
64°	216.8	216.8	216.8	216.8	218.9	218.9	223.2	225.3	227.5	229.6
65°	201.7	197.4	195.2	195.2	197.4	199.5	201.7	203.8	205.9	205.9
66°	184.5	180.3	178.1	178.1	178.1	178.1	182.4	182.4	186.7	186.7
67°	165.2	160.9	158.7	156.6	156.6	156.6	163.0	160.9	160.9	160.9
67.5°	158.7	152.3	150.2	148.0	145.9	150.2	148.0	150.2	150.2	148.0
68°	150.2	145.9	141.6	137.3	137.3	137.3	139.5	141.6	139.5	137.3
69°	133.0	130.9	124.5	120.1	117.9	120.1	117.9	120.1	117.9	120.1
70°	117.9	111.5	105.1	103.0	100.8	100.8	100.8	98.7	100.8	98.7
71°	103.0	96.5	90.1	85.8	83.7	83.7	81.6	83.7	81.6	83.7
72°	88.0	81.6	73.0	68.6	68.6	68.6	68.6	66.5	68.6	66.5
72.5°	81.6	73.0	66.5	62.2	60.0	60.0	60.0	60.0	57.9	60.0
73°	75.1	66.5	57.9	55.8	55.8	55.8	53.6	51.5	53.6	53.6





TEST NUMBER: P584345  
CATALOG NUMBER: HCC8S30D010MW-HM82555935-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	25.8	19.3	17.1	17.1	17.1	17.1	17.1	17.1	15.0	15.0
80°	10.7	8.6	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
82.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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°	139.5	139.5	135.2	128.8	117.9	107.2	98.7	90.1	79.4	68.6	64.3
75°	128.8	126.6	122.3	115.8	107.2	96.5	88.0	77.3	68.6	57.9	53.6

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°	62.2	51.5	47.2	42.9	42.9	42.9	40.8	40.8	40.8	42.9
75°	49.3	40.8	36.5	32.2	34.4	32.2	34.4	32.2	32.2	32.2

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

Scaled Data Report



(END OF REPORT)