

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: P584362

Luminaire Tested: **HCC8S30D010BZ-HM82555940-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584362  
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: HCC8S30D010BZ-HM82555940-81RWWH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

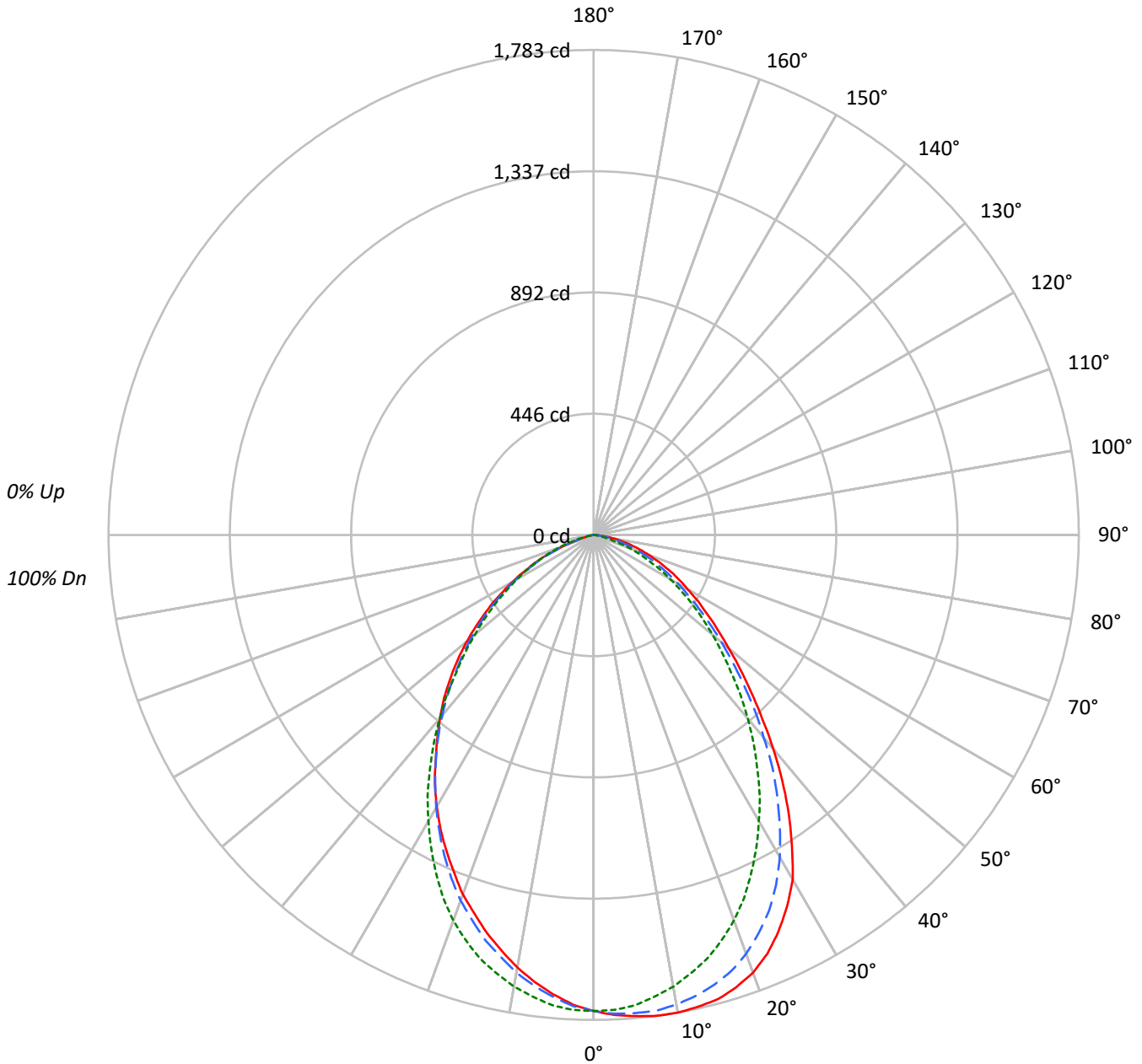
Lumens per Lamp: N/A  
Luminaire Lumens: 3281.1 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584362  
CATALOG NUMBER: HCC8S30D010BZ-HM82555940-81RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P584362

CATALOG NUMBER: HCC8S30D010BZ-HM82555940-81RWWH

**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°	53970	53970	53970
5°	54981	53733	52486
10°	55842	52795	50569
15°	56407	51481	48378
20°	56190	49492	46148
25°	54707	46640	43575
30°	52103	43234	41040
35°	47048	39459	38122
40°	41337	35419	35323
45°	35681	31133	32476
50°	31058	27306	29124
55°	27537	23714	25370
60°	24570	20044	21061
65°	22152	16264	16614
70°	19673	12190	9845
75°	16954	7065	4241
80°	13052	2539	1261
85°	8385	849	849



TEST NUMBER: P584362  
 CATALOG NUMBER: HCC8S30D010BZ-HM82555940-81RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.3	5.0
10°-20°	457.4	13.9
20°-30°	646.9	19.7
30°-40°	681.7	20.8
40°-50°	579.3	17.7
50°-60°	417.2	12.7
60°-70°	240.6	7.3
70°-80°	82.3	2.5
80°-90°	11.3	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°	1268.6	38.7
0°-40°	1950.3	59.4
0°-60°	2946.8	89.8
0°-90°	3281.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3281.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1750	1750	1750	1750	1750	
5°	1776	1764	1736	1705	1696	170
15°	1767	1712	1613	1542	1515	497
25°	1608	1525	1371	1300	1281	737
35°	1250	1176	1048	1010	1013	778
45°	818	780	714	719	745	636
55°	512	472	441	458	472	461
65°	304	261	223	218	228	302
75°	142	107	59	38	36	150
85°	24	14	2	2	2	32
90°	0	0	0	0	0	



TEST NUMBER: P584362

CATALOG NUMBER: HCC8S30D010BZ-HM82555940-81RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1750.2	1750.2	1750.2	1750.2	1750.2	1750.2	1750.2	1750.2	1750.2	1750.2	1750.2
2.5°	1766.9	1769.2	1766.9	1766.9	1764.5	1762.1	1759.7	1757.3	1752.6	1747.8	1747.8
5°	1776.2	1781.0	1776.2	1776.2	1769.2	1764.5	1759.7	1752.6	1743.1	1735.9	1735.9
7.5°	1783.4	1783.4	1783.4	1776.2	1771.5	1764.5	1752.6	1740.7	1728.8	1717.0	1712.3
10°	1783.4	1783.4	1781.0	1771.5	1766.9	1752.6	1740.7	1724.2	1707.5	1690.9	1686.1
12.5°	1776.2	1778.6	1773.9	1764.5	1752.6	1735.9	1719.4	1698.0	1679.1	1660.1	1650.6
15°	1766.9	1764.5	1759.7	1747.8	1733.6	1712.3	1695.6	1672.0	1645.8	1622.2	1612.6
17.5°	1743.1	1743.1	1735.9	1724.2	1705.1	1681.5	1655.3	1629.3	1600.8	1574.7	1562.8
20°	1712.3	1712.3	1702.8	1688.5	1669.6	1638.8	1610.3	1579.5	1546.3	1520.1	1508.2
22.5°	1667.2	1669.6	1657.7	1641.1	1619.8	1584.2	1555.7	1517.8	1484.6	1453.8	1444.3
25°	1607.9	1612.6	1600.8	1584.2	1555.7	1524.9	1489.3	1453.8	1415.9	1384.9	1370.8
27.5°	1539.2	1541.5	1529.6	1513.0	1484.6	1451.4	1415.9	1377.8	1342.3	1309.1	1294.8
30°	1463.3	1453.8	1449.0	1427.6	1396.8	1368.4	1328.1	1297.2	1259.3	1230.9	1214.2
32.5°	1356.5	1361.3	1347.0	1330.5	1306.7	1273.5	1240.4	1204.7	1169.1	1147.9	1136.0
35°	1249.8	1254.5	1247.4	1230.9	1204.7	1176.3	1143.1	1116.9	1086.2	1060.1	1048.2
37.5°	1138.3	1138.3	1133.6	1124.1	1105.2	1079.0	1045.8	1019.8	993.6	972.4	965.2
40°	1026.9	1022.2	1019.8	1012.7	996.0	972.4	951.0	929.7	903.5	889.4	879.9
42.5°	917.8	917.8	913.0	905.9	889.4	877.5	856.1	832.4	813.4	799.2	799.2
45°	818.2	820.5	813.4	808.6	799.2	780.2	761.3	744.7	728.0	718.6	713.9
47.5°	730.4	730.4	723.3	718.6	709.1	692.5	675.9	661.7	649.8	642.7	640.3
50°	647.4	647.4	647.4	635.5	623.7	611.9	600.0	583.4	576.3	571.6	569.2
52.5°	576.3	573.9	573.9	564.4	552.5	538.4	526.5	512.2	505.1	500.5	502.7
55°	512.2	512.2	509.8	498.1	486.2	471.9	460.0	448.3	443.5	438.7	441.1
56°	486.2	486.2	483.8	474.3	460.0	448.3	434.0	422.1	415.1	417.3	417.3
57°	467.2	462.4	462.4	450.6	438.7	422.1	410.3	398.4	393.7	391.3	391.3
58°	443.5	441.1	438.7	426.9	415.1	400.8	388.9	377.0	370.0	370.0	367.6
59°	419.7	419.7	415.1	405.6	393.7	379.4	367.6	355.7	348.6	346.2	346.2
60°	398.4	400.8	393.7	384.2	374.7	358.1	343.9	334.3	327.3	325.0	325.0
61°	379.4	379.4	374.7	362.9	351.0	339.1	325.0	313.1	308.3	303.6	303.6
62°	362.9	358.1	355.7	343.9	332.0	317.8	305.9	294.0	286.9	282.3	284.5
63°	341.5	339.1	334.3	325.0	313.1	298.8	284.5	275.1	268.0	260.9	263.2
64°	325.0	322.6	315.4	305.9	294.0	279.9	265.6	256.1	251.4	244.2	241.8
65°	303.6	301.2	298.8	286.9	275.1	260.9	249.0	239.6	232.4	227.7	222.9
66°	284.5	286.9	282.3	272.8	258.5	246.6	230.1	220.6	215.8	208.7	203.9
67°	268.0	268.0	263.2	253.7	239.6	227.7	215.8	203.9	196.8	189.8	187.4
67.5°	258.5	258.5	253.7	241.8	232.4	218.2	206.3	196.8	187.4	182.6	177.9
68°	249.0	249.0	246.6	237.2	225.3	211.0	199.2	187.4	177.9	170.7	168.4
69°	232.4	234.8	230.1	220.6	208.7	194.5	182.6	173.1	163.6	156.5	151.8
70°	218.2	215.8	211.0	201.5	189.8	180.3	168.4	156.5	147.1	137.6	135.2
71°	199.2	199.2	194.5	187.4	175.5	163.6	151.8	142.3	132.8	120.9	118.5
72°	185.0	185.0	180.3	170.7	161.2	149.5	137.6	125.7	118.5	106.8	102.0
72.5°	175.5	177.9	173.1	163.6	154.1	139.9	130.4	120.9	109.2	99.6	94.9
73°	170.7	168.4	166.0	156.5	144.7	135.2	123.3	113.8	102.0	92.5	87.7



TEST NUMBER: P584362

CATALOG NUMBER: HCC8S30D010BZ-HM82555940-81RWWH

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	106.8	106.8	104.4	94.9	85.4	75.9	66.3	57.0	47.4	37.9	33.2
80°	73.5	75.9	71.1	66.3	59.3	49.8	40.3	33.2	23.7	19.0	14.3
82.5°	47.4	47.4	45.1	40.3	35.6	28.4	23.7	16.6	11.9	9.5	7.1
85°	23.7	26.0	23.7	21.4	16.6	14.3	11.9	7.1	4.8	2.4	2.4
87.5°	9.5	9.5	9.5	7.1	7.1	4.8	2.4	2.4	2.4	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: P584362

CATALOG NUMBER: HCC8S30D010BZ-HM82555940-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1750.2	1750.2	1750.2	1750.2	1750.2	1750.2	1750.2	1750.2	1750.2	1750.2
2.5°	1743.1	1743.1	1738.3	1735.9	1733.6	1731.2	1728.8	1726.4	1726.4	1728.8
5°	1728.8	1724.2	1714.7	1712.3	1705.1	1702.8	1698.0	1695.6	1698.0	1695.6
7.5°	1707.5	1698.0	1686.1	1681.5	1672.0	1667.2	1660.1	1660.1	1655.3	1657.7
10°	1679.1	1664.8	1650.6	1641.1	1634.0	1626.9	1622.2	1617.4	1615.0	1615.0
12.5°	1643.4	1626.9	1612.6	1598.4	1586.6	1581.8	1572.3	1572.3	1567.6	1565.2
15°	1603.1	1581.8	1565.2	1551.1	1541.5	1532.0	1524.9	1520.1	1515.4	1515.4
17.5°	1551.1	1532.0	1515.4	1498.9	1484.6	1477.5	1470.3	1463.3	1463.3	1458.5
20°	1494.1	1472.7	1458.5	1441.9	1430.0	1418.2	1408.7	1408.7	1404.0	1406.3
22.5°	1430.0	1404.0	1389.7	1377.8	1366.0	1356.5	1347.0	1347.0	1344.6	1342.3
25°	1358.9	1337.5	1321.0	1306.7	1299.6	1290.1	1287.8	1283.0	1280.7	1280.7
27.5°	1283.0	1266.4	1245.1	1238.0	1228.5	1223.7	1223.7	1221.3	1216.6	1219.0
30°	1202.3	1183.4	1171.5	1166.8	1157.4	1157.4	1155.0	1150.2	1150.2	1152.6
32.5°	1124.1	1105.2	1095.7	1093.3	1083.8	1083.8	1081.4	1083.8	1083.8	1086.2
35°	1038.7	1022.2	1019.8	1012.7	1010.3	1010.3	1010.3	1015.0	1019.8	1012.7
37.5°	958.1	946.2	939.2	936.8	939.2	939.2	941.5	948.6	946.2	943.8
40°	875.1	865.6	860.8	860.8	865.6	870.3	870.3	877.5	879.9	877.5
42.5°	792.1	785.0	785.0	787.4	792.1	794.5	801.6	808.6	811.0	813.4
45°	713.9	713.9	713.9	716.3	718.6	723.3	732.8	739.9	742.3	744.7
47.5°	637.9	635.5	642.7	645.0	652.2	654.5	661.7	671.2	673.6	675.9
50°	566.8	571.6	573.9	581.1	585.8	585.8	595.2	600.0	607.1	607.1
52.5°	500.5	507.5	509.8	517.0	519.4	521.7	526.5	533.6	538.4	538.4
55°	441.1	443.5	448.3	450.6	457.8	460.0	464.8	467.2	474.3	471.9
56°	415.1	419.7	422.1	426.9	431.6	434.0	438.7	441.1	445.9	448.3
57°	391.3	393.7	400.8	403.2	407.9	407.9	410.3	417.3	417.3	419.7
58°	367.6	372.3	374.7	377.0	381.8	384.2	388.9	391.3	393.7	391.3
59°	346.2	348.6	351.0	351.0	355.7	355.7	362.9	367.6	370.0	370.0
60°	325.0	325.0	327.3	329.6	334.3	336.7	336.7	341.5	341.5	341.5
61°	303.6	303.6	305.9	308.3	310.7	310.7	315.4	315.4	317.8	320.2
62°	284.5	282.3	282.3	284.5	284.5	289.3	291.7	294.0	296.4	294.0
63°	263.2	260.9	260.9	260.9	260.9	265.6	265.6	268.0	272.8	270.4
64°	239.6	239.6	239.6	239.6	241.8	241.8	246.6	249.0	251.4	253.7
65°	222.9	218.2	215.8	215.8	218.2	220.6	222.9	225.3	227.7	227.7
66°	203.9	199.2	196.8	196.8	196.8	196.8	201.5	201.5	206.3	206.3
67°	182.6	177.9	175.5	173.1	173.1	173.1	180.3	177.9	177.9	177.9
67.5°	175.5	168.4	166.0	163.6	161.2	166.0	163.6	166.0	166.0	163.6
68°	166.0	161.2	156.5	151.8	151.8	151.8	154.1	156.5	154.1	151.8
69°	147.1	144.7	137.6	132.8	130.4	132.8	130.4	132.8	130.4	132.8
70°	130.4	123.3	116.2	113.8	111.4	111.4	111.4	109.2	111.4	109.2
71°	113.8	106.8	99.6	94.9	92.5	92.5	90.1	92.5	90.1	92.5
72°	97.3	90.1	80.6	75.9	75.9	75.9	75.9	73.5	75.9	73.5
72.5°	90.1	80.6	73.5	68.7	66.3	66.3	66.3	66.3	64.1	66.3
73°	83.0	73.5	64.1	61.7	61.7	61.7	59.3	57.0	59.3	59.3





TEST NUMBER: P584362  
CATALOG NUMBER: HCC8S30D010BZ-HM82555940-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	28.4	21.4	19.0	19.0	19.0	19.0	19.0	19.0	16.6	16.6
80°	11.9	9.5	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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°	154.1	154.1	149.5	142.3	130.4	118.5	109.2	99.6	87.7	75.9	71.1
75°	142.3	139.9	135.2	128.1	118.5	106.8	97.3	85.4	75.9	64.1	59.3

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°	68.7	57.0	52.2	47.4	47.4	47.4	45.1	45.1	45.1	47.4
75°	54.6	45.1	40.3	35.6	37.9	35.6	37.9	35.6	35.6	35.6

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

Scaled Data Report



(END OF REPORT)