

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: P584243

Luminaire Tested: **HCC8S30D010SL-HM82555827-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584243  
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: HCC8S30D010SL-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**

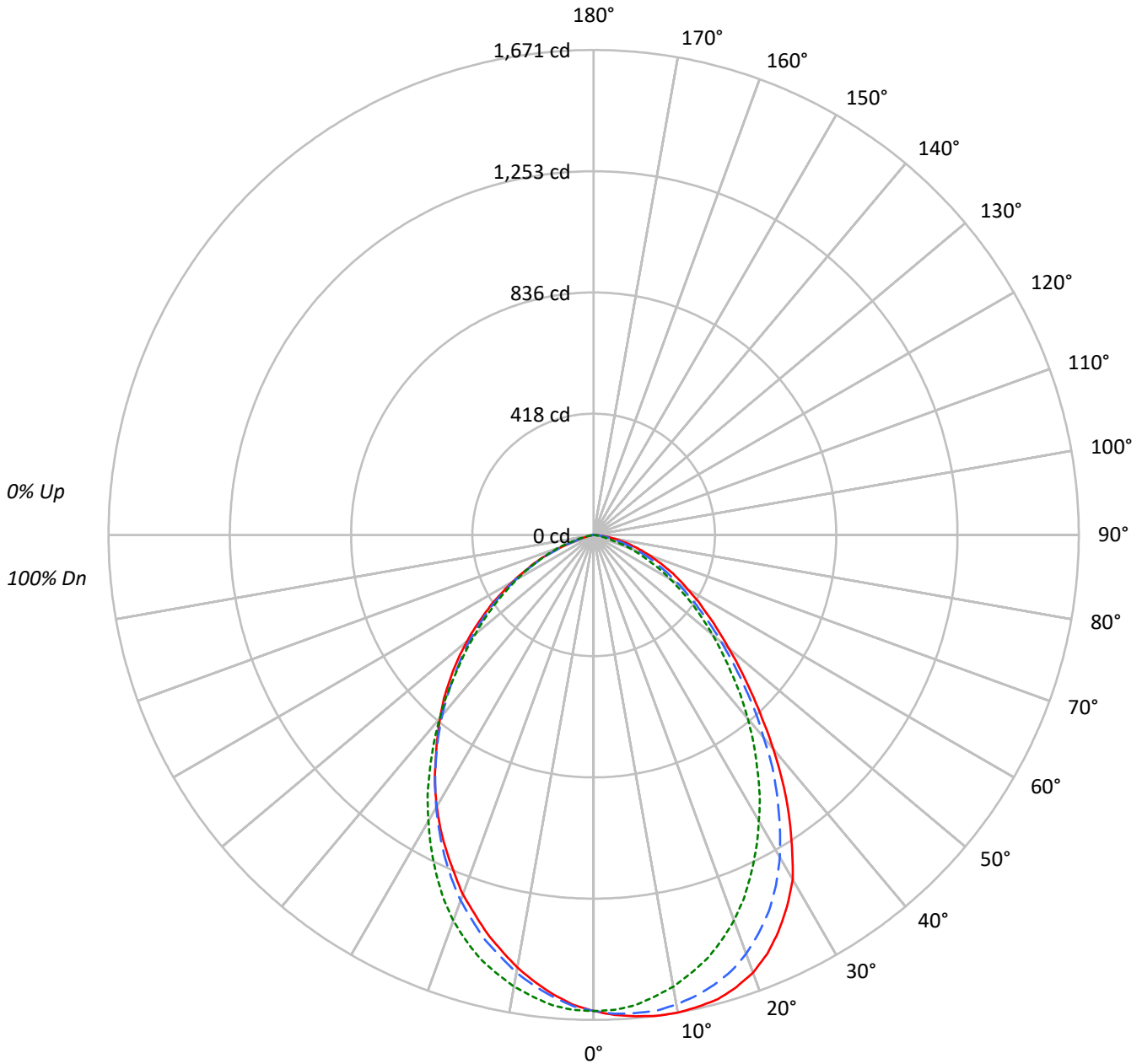
Lumens per Lamp: N/A  
Luminaire Lumens: 3075.0 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584243  
CATALOG NUMBER: HCC8S30D010SL-HM82555827-81RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P584243

CATALOG NUMBER: HCC8S30D010SL-HM82555827-81RWWH

**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°	50581	50581	50581
5°	51529	50359	49192
10°	52335	49482	47394
15°	52860	48247	45342
20°	52659	46388	43251
25°	51271	43711	40836
30°	48831	40520	38462
35°	44093	36982	35728
40°	38740	33193	33101
45°	33439	29179	30435
50°	29105	25589	27292
55°	25811	22225	23779
60°	23022	18779	19741
65°	20759	15242	15571
70°	18438	11423	9223
75°	15894	6612	3967
80°	12217	2362	1190
85°	7855	814	814



TEST NUMBER: P584243  
 CATALOG NUMBER: HCC8S30D010SL-HM82555827-81RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.0	5.0
10°-20°	428.7	13.9
20°-30°	606.3	19.7
30°-40°	638.9	20.8
40°-50°	542.9	17.7
50°-60°	391.0	12.7
60°-70°	225.5	7.3
70°-80°	77.2	2.5
80°-90°	10.6	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°	1188.9	38.7
0°-40°	1827.8	59.4
0°-60°	2761.7	89.8
0°-90°	3075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3075.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1640	1640	1640	1640	1640	
5°	1665	1654	1627	1598	1589	159
15°	1656	1605	1511	1445	1420	466
25°	1507	1429	1285	1218	1200	691
35°	1171	1102	982	947	949	729
45°	767	731	669	673	698	596
55°	480	442	413	429	442	432
65°	284	244	209	204	213	283
75°	133	100	56	36	33	141
85°	22	13	2	2	2	30
90°	0	0	0	0	0	



TEST NUMBER: P584243

CATALOG NUMBER: HCC8S30D010SL-HM82555827-81RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3
2.5°	1655.8	1658.1	1655.8	1655.8	1653.7	1651.4	1649.1	1647.0	1642.5	1638.1	1638.1
5°	1664.7	1669.2	1664.7	1664.7	1658.1	1653.7	1649.1	1642.5	1633.6	1626.9	1626.9
7.5°	1671.4	1671.4	1671.4	1664.7	1660.3	1653.7	1642.5	1631.4	1620.3	1609.2	1604.7
10°	1671.4	1671.4	1669.2	1660.3	1655.8	1642.5	1631.4	1615.9	1600.3	1584.7	1580.3
12.5°	1664.7	1667.0	1662.5	1653.7	1642.5	1626.9	1611.3	1591.4	1573.6	1555.8	1546.9
15°	1655.8	1653.7	1649.1	1638.1	1624.8	1604.7	1589.2	1567.0	1542.5	1520.3	1511.3
17.5°	1633.6	1633.6	1626.9	1615.9	1598.0	1575.8	1551.4	1526.9	1500.3	1475.8	1464.7
20°	1604.7	1604.7	1595.9	1582.4	1564.7	1535.8	1509.2	1480.3	1449.2	1424.7	1413.6
22.5°	1562.5	1564.7	1553.5	1538.1	1518.0	1484.7	1458.1	1422.5	1391.4	1362.5	1353.6
25°	1506.9	1511.3	1500.3	1484.7	1458.1	1429.2	1395.8	1362.5	1326.9	1298.0	1284.7
27.5°	1442.5	1444.8	1433.6	1418.0	1391.4	1360.2	1326.9	1291.4	1258.0	1226.9	1213.5
30°	1371.4	1362.5	1358.0	1338.0	1309.1	1282.5	1244.6	1215.8	1180.2	1153.6	1138.0
32.5°	1271.3	1275.8	1262.5	1246.9	1224.7	1193.5	1162.4	1129.1	1095.8	1075.7	1064.6
35°	1171.3	1175.8	1169.1	1153.6	1129.1	1102.4	1071.3	1046.8	1017.9	993.5	982.4
37.5°	1066.9	1066.9	1062.4	1053.6	1035.7	1011.2	980.2	955.7	931.2	911.2	904.6
40°	962.4	958.0	955.7	949.1	933.5	911.2	891.3	871.3	846.8	833.5	824.6
42.5°	860.1	860.1	855.7	849.1	833.5	822.3	802.3	780.1	762.4	749.1	749.1
45°	766.8	769.0	762.4	757.9	749.1	731.2	713.4	697.9	682.4	673.4	669.1
47.5°	684.5	684.5	677.8	673.4	664.5	649.0	633.5	620.1	609.0	602.3	600.1
50°	606.7	606.7	606.7	595.7	584.5	573.5	562.3	546.8	540.0	535.6	533.4
52.5°	540.0	537.9	537.9	529.0	517.8	504.5	493.4	480.1	473.5	468.9	471.2
55°	480.1	480.1	477.9	466.8	455.6	442.3	431.1	420.1	415.7	411.2	413.4
56°	455.6	455.6	453.4	444.6	431.1	420.1	406.8	395.6	388.9	391.2	391.2
57°	437.9	433.4	433.4	422.3	411.2	395.6	384.5	373.3	368.9	366.7	366.7
58°	415.7	413.4	411.2	400.1	388.9	375.6	364.5	353.4	346.7	346.7	344.5
59°	393.4	393.4	388.9	380.1	368.9	355.6	344.5	333.4	326.7	324.5	324.5
60°	373.3	375.6	368.9	360.0	351.2	335.7	322.2	313.4	306.8	304.5	304.5
61°	355.6	355.6	351.2	340.1	329.0	317.8	304.5	293.3	288.9	284.5	284.5
62°	340.1	335.7	333.4	322.2	311.2	297.8	286.7	275.6	269.0	264.4	266.7
63°	320.1	317.8	313.4	304.5	293.3	280.0	266.7	257.8	251.1	244.5	246.7
64°	304.5	302.2	295.6	286.7	275.6	262.3	249.0	240.1	235.5	228.9	226.7
65°	284.5	282.3	280.0	269.0	257.8	244.5	233.4	224.5	217.8	213.4	208.9
66°	266.7	269.0	264.4	255.6	242.3	231.1	215.6	206.6	202.2	195.6	191.2
67°	251.1	251.1	246.7	237.8	224.5	213.4	202.2	191.2	184.5	177.8	175.6
67.5°	242.3	242.3	237.8	226.7	217.8	204.5	193.3	184.5	175.6	171.1	166.7
68°	233.4	233.4	231.1	222.2	211.2	197.8	186.7	175.6	166.7	160.0	157.8
69°	217.8	220.1	215.6	206.6	195.6	182.3	171.1	162.3	153.4	146.7	142.2
70°	204.5	202.2	197.8	188.9	177.8	169.0	157.8	146.7	137.8	128.9	126.7
71°	186.7	186.7	182.3	175.6	164.4	153.4	142.2	133.4	124.5	113.3	111.2
72°	173.4	173.4	169.0	160.0	151.1	140.1	128.9	117.8	111.2	100.0	95.6
72.5°	164.4	166.7	162.3	153.4	144.5	131.1	122.2	113.3	102.3	93.3	88.9
73°	160.0	157.8	155.6	146.7	135.5	126.7	115.6	106.7	95.6	86.7	82.3



TEST NUMBER: P584243  
 CATALOG NUMBER: HCC8S30D010SL-HM82555827-81RWWH

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	100.0	100.0	97.7	88.9	80.0	71.1	62.2	53.4	44.5	35.6	31.2
80°	68.8	71.1	66.7	62.2	55.5	46.7	37.8	31.2	22.2	17.8	13.3
82.5°	44.5	44.5	42.2	37.8	33.3	26.6	22.2	15.6	11.1	8.9	6.7
85°	22.2	24.5	22.2	20.0	15.6	13.3	11.1	6.7	4.4	2.3	2.3
87.5°	8.9	8.9	8.9	6.7	6.7	4.4	2.3	2.3	2.3	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: P584243

CATALOG NUMBER: HCC8S30D010SL-HM82555827-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3
2.5°	1633.6	1633.6	1629.2	1626.9	1624.8	1622.5	1620.3	1618.1	1618.1	1620.3
5°	1620.3	1615.9	1606.9	1604.7	1598.0	1595.9	1591.4	1589.2	1591.4	1589.2
7.5°	1600.3	1591.4	1580.3	1575.8	1567.0	1562.5	1555.8	1555.8	1551.4	1553.5
10°	1573.6	1560.3	1546.9	1538.1	1531.4	1524.7	1520.3	1515.9	1513.6	1513.6
12.5°	1540.2	1524.7	1511.3	1498.0	1487.0	1482.4	1473.6	1473.6	1469.1	1466.9
15°	1502.5	1482.4	1466.9	1453.6	1444.8	1435.8	1429.2	1424.7	1420.3	1420.3
17.5°	1453.6	1435.8	1420.3	1404.7	1391.4	1384.7	1378.1	1371.4	1371.4	1366.9
20°	1400.3	1380.2	1366.9	1351.3	1340.2	1329.1	1320.3	1320.3	1315.7	1318.0
22.5°	1340.2	1315.7	1302.4	1291.4	1280.2	1271.3	1262.5	1262.5	1260.2	1258.0
25°	1273.5	1253.6	1238.0	1224.7	1218.0	1209.1	1206.8	1202.4	1200.2	1200.2
27.5°	1202.4	1186.9	1166.9	1160.2	1151.3	1146.9	1146.9	1144.7	1140.3	1142.4
30°	1126.8	1109.1	1097.9	1093.5	1084.6	1084.6	1082.5	1077.9	1077.9	1080.2
32.5°	1053.6	1035.7	1026.8	1024.7	1015.8	1015.8	1013.5	1015.8	1015.8	1017.9
35°	973.6	958.0	955.7	949.1	946.8	946.8	946.8	951.3	955.7	949.1
37.5°	897.9	886.9	880.1	878.0	880.1	880.1	882.4	889.0	886.9	884.6
40°	820.2	811.3	806.9	806.9	811.3	815.7	815.7	822.3	824.6	822.3
42.5°	742.3	735.6	735.6	737.9	742.3	744.6	751.2	757.9	760.1	762.4
45°	669.1	669.1	669.1	671.2	673.4	677.8	686.8	693.4	695.7	697.9
47.5°	597.8	595.7	602.3	604.6	611.3	613.4	620.1	629.0	631.2	633.5
50°	531.2	535.6	537.9	544.6	549.0	549.0	557.9	562.3	568.9	568.9
52.5°	468.9	475.6	477.9	484.5	486.8	488.9	493.4	500.1	504.5	504.5
55°	413.4	415.7	420.1	422.3	429.0	431.1	435.6	437.9	444.6	442.3
56°	388.9	393.4	395.6	400.1	404.5	406.8	411.2	413.4	417.8	420.1
57°	366.7	368.9	375.6	377.9	382.3	382.3	384.5	391.2	391.2	393.4
58°	344.5	349.0	351.2	353.4	357.9	360.0	364.5	366.7	368.9	366.7
59°	324.5	326.7	329.0	329.0	333.4	333.4	340.1	344.5	346.7	346.7
60°	304.5	304.5	306.8	308.9	313.4	315.6	315.6	320.1	320.1	320.1
61°	284.5	284.5	286.7	288.9	291.2	291.2	295.6	295.6	297.8	300.1
62°	266.7	264.4	264.4	266.7	266.7	271.2	273.4	275.6	277.9	275.6
63°	246.7	244.5	244.5	244.5	244.5	249.0	249.0	251.1	255.6	253.4
64°	224.5	224.5	224.5	224.5	226.7	226.7	231.1	233.4	235.5	237.8
65°	208.9	204.5	202.2	202.2	204.5	206.6	208.9	211.2	213.4	213.4
66°	191.2	186.7	184.5	184.5	184.5	184.5	188.9	188.9	193.3	193.3
67°	171.1	166.7	164.4	162.3	162.3	162.3	169.0	166.7	166.7	166.7
67.5°	164.4	157.8	155.6	153.4	151.1	155.6	153.4	155.6	155.6	153.4
68°	155.6	151.1	146.7	142.2	142.2	142.2	144.5	146.7	144.5	142.2
69°	137.8	135.5	128.9	124.5	122.2	124.5	122.2	124.5	122.2	124.5
70°	122.2	115.6	108.9	106.7	104.5	104.5	104.5	102.3	104.5	102.3
71°	106.7	100.0	93.3	88.9	86.7	86.7	84.4	86.7	84.4	86.7
72°	91.1	84.4	75.6	71.1	71.1	71.1	71.1	68.8	71.1	68.8
72.5°	84.4	75.6	68.8	64.4	62.2	62.2	62.2	62.2	60.0	62.2
73°	77.8	68.8	60.0	57.8	57.8	57.8	55.5	53.4	55.5	55.5





TEST NUMBER: P584243

CATALOG NUMBER: HCC8S30D010SL-HM82555827-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	26.6	20.0	17.8	17.8	17.8	17.8	17.8	17.8	15.6	15.6
80°	11.1	8.9	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
82.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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°	144.5	144.5	140.1	133.4	122.2	111.2	102.3	93.3	82.3	71.1	66.7
75°	133.4	131.1	126.7	120.0	111.2	100.0	91.1	80.0	71.1	60.0	55.5

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°	64.4	53.4	48.9	44.5	44.5	44.5	42.2	42.2	42.2	44.5
75°	51.1	42.2	37.8	33.3	35.6	33.3	35.6	33.3	33.3	33.3

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

Scaled Data Report



(END OF REPORT)