

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: P593665

Luminaire Tested: **HCC8S30D010MW-HM82555850-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593665
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-HM82555850-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

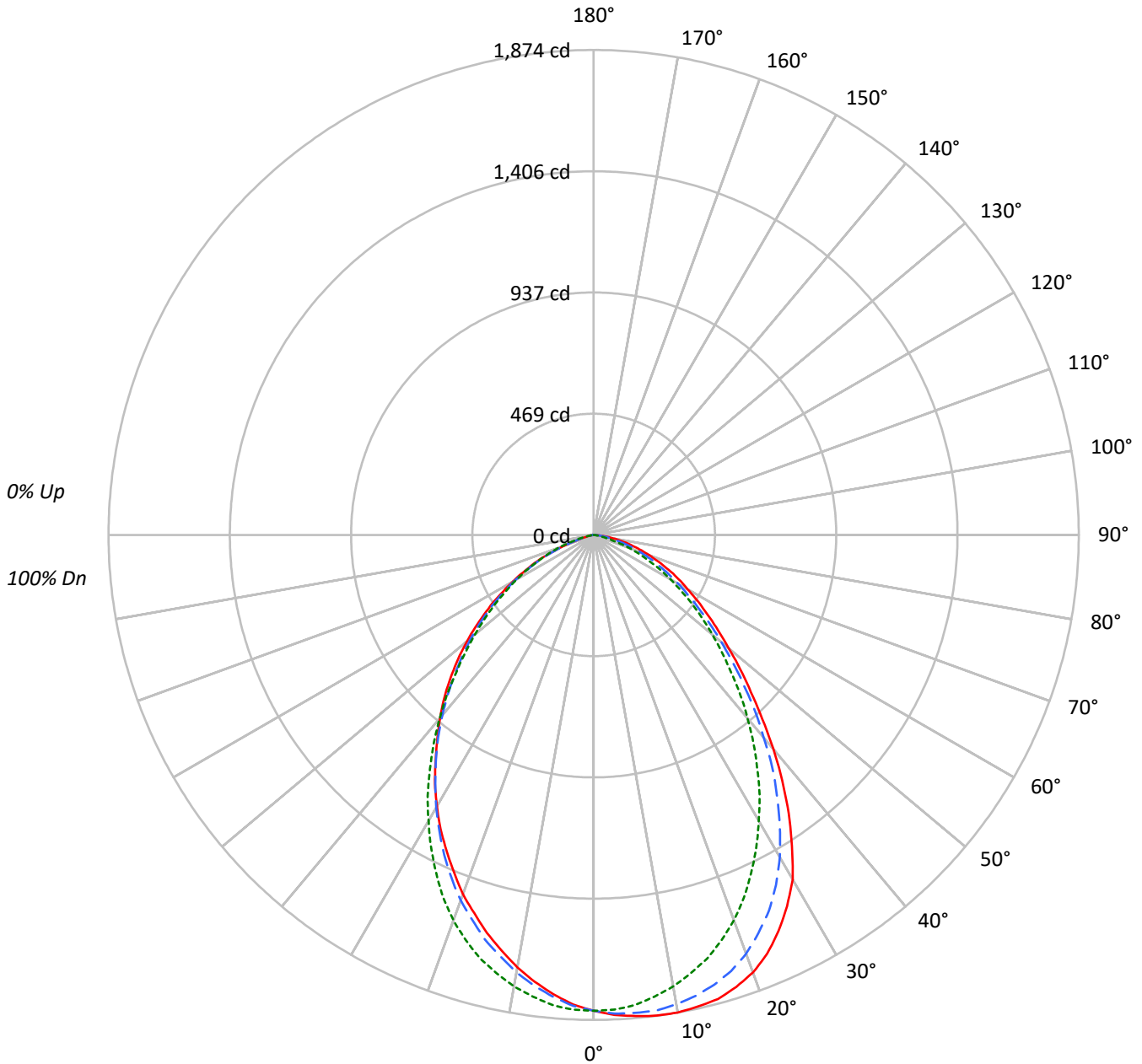
Lumens per Lamp: N/A
Luminaire Lumens: 3447.4 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): 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: P593665
CATALOG NUMBER: HCC8S30D010MW-HM82555850-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P593665

CATALOG NUMBER: HCC8S30D010MW-HM82555850-81RWWH

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°	56705	56705	56705
5°	57773	56457	55148
10°	58669	55472	53133
15°	59264	54092	50830
20°	59038	52002	48488
25°	57484	49002	45783
30°	54742	45427	43120
35°	49431	41461	40053
40°	43430	37211	37114
45°	37486	32707	34120
50°	32631	28693	30602
55°	28940	24918	26655
60°	25816	21055	22128
65°	23269	17088	17453
70°	20665	12812	10332
75°	17812	7423	4444
80°	13727	2664	1332
85°	8845	885	885



TEST NUMBER: P593665
 CATALOG NUMBER: HCC8S30D010MW-HM82555850-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.6	5.0
10°-20°	480.6	13.9
20°-30°	679.7	19.7
30°-40°	716.2	20.8
40°-50°	608.7	17.7
50°-60°	438.3	12.7
60°-70°	252.8	7.3
70°-80°	86.5	2.5
80°-90°	11.9	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°	1332.9	38.7
0°-40°	2049.1	59.4
0°-60°	3096.1	89.8
0°-90°	3447.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3447.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1839	1839	1839	1839	1839	
5°	1866	1854	1824	1792	1782	178
15°	1856	1799	1694	1620	1592	523
25°	1690	1602	1440	1365	1346	775
35°	1313	1236	1101	1062	1064	818
45°	860	820	750	755	782	668
55°	538	496	464	481	496	484
65°	319	274	234	229	239	317
75°	150	112	62	40	37	158
85°	25	15	2	2	2	34
90°	0	0	0	0	0	



TEST NUMBER: P593665

CATALOG NUMBER: HCC8S30D010MW-HM82555850-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1838.9	1838.9	1838.9	1838.9	1838.9	1838.9	1838.9	1838.9	1838.9	1838.9	1838.9
2.5°	1856.4	1858.9	1856.4	1856.4	1853.9	1851.4	1848.9	1846.4	1841.4	1836.4	1836.4
5°	1866.4	1871.2	1866.4	1866.4	1858.9	1853.9	1848.9	1841.4	1831.4	1823.9	1823.9
7.5°	1873.7	1873.7	1873.7	1866.4	1861.4	1853.9	1841.4	1828.9	1816.4	1804.1	1799.1
10°	1873.7	1873.7	1871.2	1861.4	1856.4	1841.4	1828.9	1811.6	1794.1	1776.6	1771.6
12.5°	1866.4	1868.9	1863.9	1853.9	1841.4	1823.9	1806.6	1784.1	1764.1	1744.3	1734.3
15°	1856.4	1853.9	1848.9	1836.4	1821.4	1799.1	1781.6	1756.6	1729.3	1704.3	1694.4
17.5°	1831.4	1831.4	1823.9	1811.6	1791.6	1766.6	1739.3	1711.8	1682.0	1654.5	1642.0
20°	1799.1	1799.1	1789.1	1774.1	1754.3	1721.8	1691.9	1659.5	1624.6	1597.2	1584.7
22.5°	1751.8	1754.3	1741.8	1724.3	1701.8	1664.5	1634.6	1594.7	1559.8	1527.4	1517.5
25°	1689.5	1694.4	1682.0	1664.5	1634.6	1602.2	1564.8	1527.4	1487.6	1455.2	1440.2
27.5°	1617.2	1619.7	1607.2	1589.7	1559.8	1525.0	1487.6	1447.7	1410.4	1375.4	1360.5
30°	1537.4	1527.4	1522.5	1500.0	1467.7	1437.7	1395.4	1363.0	1323.1	1293.3	1275.8
32.5°	1425.3	1430.2	1415.3	1397.9	1372.9	1338.1	1303.1	1265.8	1228.5	1206.0	1193.5
35°	1313.1	1318.1	1310.6	1293.3	1265.8	1236.0	1201.0	1173.7	1141.2	1113.9	1101.4
37.5°	1196.0	1196.0	1191.0	1181.0	1161.2	1133.7	1098.9	1071.4	1044.1	1021.6	1014.1
40°	1078.9	1073.9	1071.4	1064.0	1046.6	1021.6	999.2	976.8	949.4	934.4	924.4
42.5°	964.3	964.3	959.3	951.8	934.4	922.0	899.5	874.6	854.7	839.7	839.7
45°	859.6	862.1	854.7	849.7	839.7	819.8	799.8	782.4	765.0	755.0	750.0
47.5°	767.5	767.5	760.0	755.0	745.0	727.5	710.2	695.2	682.7	675.2	672.7
50°	680.2	680.2	680.2	667.7	655.4	642.9	630.4	612.9	605.4	600.6	598.1
52.5°	605.4	603.1	603.1	593.1	580.6	565.6	553.1	538.3	530.8	525.8	528.3
55°	538.3	538.3	535.8	523.3	510.8	495.8	483.4	471.0	466.0	461.0	463.5
56°	510.8	510.8	508.3	498.3	483.4	471.0	456.0	443.5	436.0	438.5	438.5
57°	490.8	485.9	485.9	473.5	461.0	443.5	431.1	418.6	413.7	411.2	411.2
58°	466.0	463.5	461.0	448.5	436.0	421.1	408.7	396.2	388.7	388.7	386.2
59°	441.0	441.0	436.0	426.1	413.7	398.7	386.2	373.8	366.3	363.8	363.8
60°	418.6	421.1	413.7	403.7	393.7	376.2	361.3	351.3	343.9	341.4	341.4
61°	398.7	398.7	393.7	381.2	368.8	356.3	341.4	328.9	323.9	318.9	318.9
62°	381.2	376.2	373.8	361.3	348.9	333.9	321.4	309.0	301.5	296.5	299.0
63°	358.8	356.3	351.3	341.4	328.9	314.0	299.0	289.0	281.6	274.1	276.6
64°	341.4	338.9	331.4	321.4	309.0	294.0	279.1	269.1	264.1	256.7	254.2
65°	318.9	316.5	314.0	301.5	289.0	274.1	261.6	251.7	244.2	239.2	234.2
66°	299.0	301.5	296.5	286.5	271.6	259.1	241.7	231.7	226.7	219.3	214.3
67°	281.6	281.6	276.6	266.6	251.7	239.2	226.7	214.3	206.8	199.4	196.9
67.5°	271.6	271.6	266.6	254.2	244.2	229.2	216.8	206.8	196.9	191.9	186.9
68°	261.6	261.6	259.1	249.2	236.7	221.7	209.3	196.9	186.9	179.4	176.9
69°	244.2	246.7	241.7	231.7	219.3	204.3	191.9	181.9	171.9	164.4	159.4
70°	229.2	226.7	221.7	211.8	199.4	189.4	176.9	164.4	154.5	144.5	142.1
71°	209.3	209.3	204.3	196.9	184.4	171.9	159.4	149.5	139.6	127.1	124.6
72°	194.4	194.4	189.4	179.4	169.4	156.9	144.5	132.1	124.6	112.1	107.1
72.5°	184.4	186.9	181.9	171.9	161.9	147.0	137.1	127.1	114.6	104.6	99.6
73°	179.4	176.9	174.4	164.4	152.0	142.1	129.6	119.6	107.1	97.1	92.1



TEST NUMBER: P593665
 CATALOG NUMBER: HCC8S30D010MW-HM82555850-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	<i>112.1</i>	112.1	109.6	99.6	89.7	79.8	69.8	59.8	49.8	39.8	34.8
80°	<i>77.3</i>	79.8	74.8	69.8	62.3	52.3	42.3	34.8	25.0	20.0	15.0
82.5°	<i>49.8</i>	49.8	47.3	42.3	37.3	29.8	25.0	17.5	12.5	10.0	7.5
85°	<i>25.0</i>	27.5	25.0	22.5	17.5	15.0	12.5	7.5	5.0	2.5	2.5
87.5°	<i>10.0</i>	10.0	10.0	7.5	7.5	5.0	2.5	2.5	2.5	0.0	0.0
90°	<i>0.0</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P593665

CATALOG NUMBER: HCC8S30D010MW-HM82555850-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1838.9	1838.9	1838.9	1838.9	1838.9	1838.9	1838.9	1838.9	1838.9	1838.9
2.5°	1831.4	1831.4	1826.4	1823.9	1821.4	1818.9	1816.4	1813.9	1813.9	1816.4
5°	1816.4	1811.6	1801.6	1799.1	1791.6	1789.1	1784.1	1781.6	1784.1	1781.6
7.5°	1794.1	1784.1	1771.6	1766.6	1756.6	1751.8	1744.3	1744.3	1739.3	1741.8
10°	1764.1	1749.3	1734.3	1724.3	1716.8	1709.3	1704.3	1699.3	1696.9	1696.9
12.5°	1726.8	1709.3	1694.4	1679.5	1667.0	1662.0	1652.0	1652.0	1647.0	1644.5
15°	1684.5	1662.0	1644.5	1629.6	1619.7	1609.7	1602.2	1597.2	1592.2	1592.2
17.5°	1629.6	1609.7	1592.2	1574.8	1559.8	1552.4	1544.9	1537.4	1537.4	1532.4
20°	1569.8	1547.4	1532.4	1515.0	1502.5	1490.1	1480.1	1480.1	1475.1	1477.6
22.5°	1502.5	1475.1	1460.2	1447.7	1435.2	1425.3	1415.3	1415.3	1412.8	1410.4
25°	1427.8	1405.4	1387.9	1372.9	1365.4	1355.5	1353.1	1348.1	1345.6	1345.6
27.5°	1348.1	1330.6	1308.1	1300.6	1290.8	1285.8	1285.8	1283.3	1278.3	1280.8
30°	1263.3	1243.3	1231.0	1226.0	1216.0	1216.0	1213.5	1208.5	1208.5	1211.0
32.5°	1181.0	1161.2	1151.2	1148.7	1138.7	1138.7	1136.2	1138.7	1138.7	1141.2
35°	1091.4	1073.9	1071.4	1064.0	1061.5	1061.5	1061.5	1066.4	1071.4	1064.0
37.5°	1006.7	994.2	986.8	984.3	986.8	986.8	989.2	996.7	994.2	991.7
40°	919.5	909.5	904.5	904.5	909.5	914.5	914.5	922.0	924.4	922.0
42.5°	832.3	824.8	824.8	827.3	832.3	834.8	842.2	849.7	852.2	854.7
45°	750.0	750.0	750.0	752.5	755.0	760.0	770.0	777.4	779.9	782.4
47.5°	670.2	667.7	675.2	677.7	685.2	687.7	695.2	705.2	707.7	710.2
50°	595.6	600.6	603.1	610.4	615.4	615.4	625.4	630.4	637.9	637.9
52.5°	525.8	533.3	535.8	543.3	545.8	548.1	553.1	560.6	565.6	565.6
55°	463.5	466.0	471.0	473.5	481.0	483.4	488.4	490.8	498.3	495.8
56°	436.0	441.0	443.5	448.5	453.5	456.0	461.0	463.5	468.5	471.0
57°	411.2	413.7	421.1	423.6	428.6	428.6	431.1	438.5	438.5	441.0
58°	386.2	391.2	393.7	396.2	401.2	403.7	408.7	411.2	413.7	411.2
59°	363.8	366.3	368.8	368.8	373.8	373.8	381.2	386.2	388.7	388.7
60°	341.4	341.4	343.9	346.4	351.3	353.8	353.8	358.8	358.8	358.8
61°	318.9	318.9	321.4	323.9	326.4	326.4	331.4	331.4	333.9	336.4
62°	299.0	296.5	296.5	299.0	299.0	304.0	306.5	309.0	311.5	309.0
63°	276.6	274.1	274.1	274.1	274.1	279.1	279.1	281.6	286.5	284.1
64°	251.7	251.7	251.7	251.7	254.2	254.2	259.1	261.6	264.1	266.6
65°	234.2	229.2	226.7	226.7	229.2	231.7	234.2	236.7	239.2	239.2
66°	214.3	209.3	206.8	206.8	206.8	206.8	211.8	211.8	216.8	216.8
67°	191.9	186.9	184.4	181.9	181.9	181.9	189.4	186.9	186.9	186.9
67.5°	184.4	176.9	174.4	171.9	169.4	174.4	171.9	174.4	174.4	171.9
68°	174.4	169.4	164.4	159.4	159.4	159.4	161.9	164.4	161.9	159.4
69°	154.5	152.0	144.5	139.6	137.1	139.6	137.1	139.6	137.1	139.6
70°	137.1	129.6	122.1	119.6	117.1	117.1	117.1	114.6	117.1	114.6
71°	119.6	112.1	104.6	99.6	97.1	97.1	94.6	97.1	94.6	97.1
72°	102.1	94.6	84.8	79.8	79.8	79.8	79.8	77.3	79.8	77.3
72.5°	94.6	84.8	77.3	72.3	69.8	69.8	69.8	69.8	67.3	69.8
73°	87.2	77.3	67.3	64.8	64.8	64.8	62.3	59.8	62.3	62.3



TEST NUMBER: P593665
 CATALOG NUMBER: HCC8S30D010MW-HM82555850-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	29.8	22.5	20.0	20.0	20.0	20.0	20.0	20.0	17.5	17.5
80°	12.5	10.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
82.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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°	161.9	161.9	156.9	149.5	137.1	124.6	114.6	104.6	92.1	79.8	74.8
75°	149.5	147.0	142.1	134.6	124.6	112.1	102.1	89.7	79.8	67.3	62.3

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°	72.3	59.8	54.8	49.8	49.8	49.8	47.3	47.3	47.3	49.8
75°	57.3	47.3	42.3	37.3	39.8	37.3	39.8	37.3	37.3	37.3

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

Scaled Data Report



(END OF REPORT)