

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: P584260

Luminaire Tested: **HCC8S30D010MW-HM82555830-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584260
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-HM82555830-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

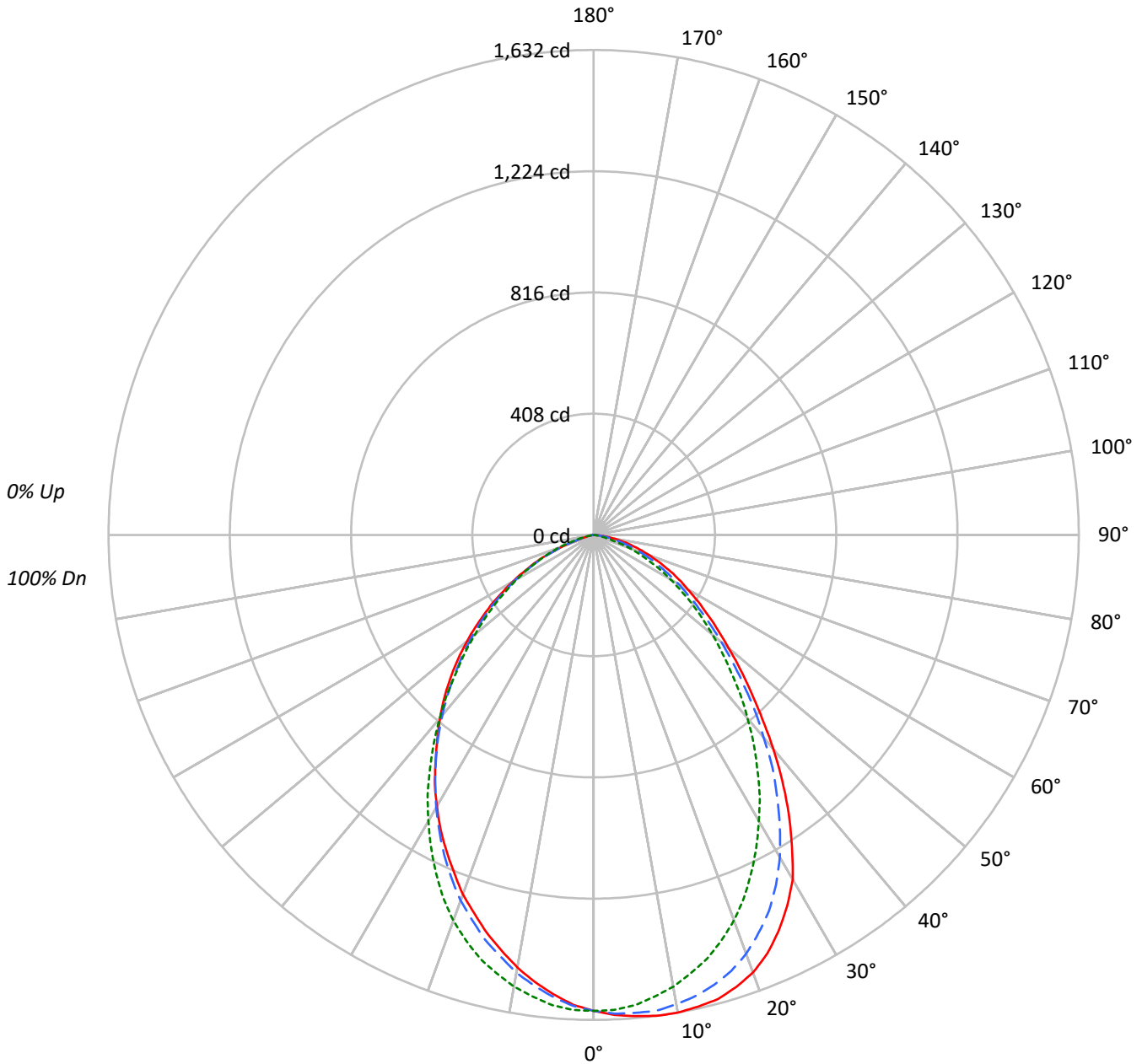
Lumens per Lamp: N/A
Luminaire Lumens: 3002.8 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 28
Input Voltage (V): NR
Input Current (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: P584260
CATALOG NUMBER: HCC8S30D010MW-HM82555830-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P584260

CATALOG NUMBER: HCC8S30D010MW-HM82555830-81RWWH

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	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°	49391	49391	49391
5°	50319	49177	48038
10°	51104	48321	46279
15°	51618	47117	44272
20°	51422	45298	42237
25°	50066	42683	39876
30°	47685	39566	37558
35°	43057	36112	34885
40°	37831	32412	32328
45°	32655	28485	29720
50°	28424	24989	26654
55°	25203	21704	23225
60°	22492	18341	19279
65°	20277	14885	15199
70°	17996	11153	9007
75°	15512	6458	3884
80°	11951	2326	1154
85°	7713	743	743



TEST NUMBER: P584260

CATALOG NUMBER: HCC8S30D010MW-HM82555830-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	5.0
10°-20°	418.6	13.9
20°-30°	592.0	19.7
30°-40°	623.8	20.8
40°-50°	530.2	17.7
50°-60°	381.8	12.7
60°-70°	220.2	7.3
70°-80°	75.4	2.5
80°-90°	10.4	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°	1161.0	38.7
0°-40°	1784.8	59.4
0°-60°	2696.8	89.8
0°-90°	3002.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3002.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1602	1602	1602	1602	1602	
5°	1626	1615	1589	1561	1552	155
15°	1617	1567	1476	1411	1387	455
25°	1472	1396	1254	1189	1172	675
35°	1144	1076	959	925	927	712
45°	749	714	653	658	682	582
55°	469	432	404	419	432	422
65°	278	239	204	200	208	276
75°	130	98	54	35	33	137
85°	22	13	2	2	2	29
90°	0	0	0	0	0	



TEST NUMBER: P584260

CATALOG NUMBER: HCC8S30D010MW-HM82555830-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7
2.5°	1616.9	1619.2	1616.9	1616.9	1614.8	1612.6	1610.5	1608.2	1604.0	1599.6	1599.6
5°	1625.6	1630.0	1625.6	1625.6	1619.2	1614.8	1610.5	1604.0	1595.3	1588.7	1588.7
7.5°	1632.1	1632.1	1632.1	1625.6	1621.3	1614.8	1604.0	1593.0	1582.2	1571.4	1567.0
10°	1632.1	1632.1	1630.0	1621.3	1616.9	1604.0	1593.0	1577.9	1562.7	1547.5	1543.2
12.5°	1625.6	1627.9	1623.5	1614.8	1604.0	1588.7	1573.5	1554.0	1536.7	1519.3	1510.6
15°	1616.9	1614.8	1610.5	1599.6	1586.6	1567.0	1551.9	1530.1	1506.2	1484.6	1475.9
17.5°	1595.3	1595.3	1588.7	1577.9	1560.6	1538.8	1514.9	1491.1	1465.0	1441.2	1430.2
20°	1567.0	1567.0	1558.3	1545.3	1528.0	1499.8	1473.8	1445.5	1415.1	1391.2	1380.4
22.5°	1525.8	1528.0	1517.2	1501.9	1482.4	1449.9	1423.8	1389.1	1358.7	1330.5	1321.8
25°	1471.5	1475.9	1465.0	1449.9	1423.8	1395.5	1363.1	1330.5	1295.8	1267.5	1254.5
27.5°	1408.6	1410.7	1399.9	1384.7	1358.7	1328.2	1295.8	1261.1	1228.5	1198.0	1185.1
30°	1339.2	1330.5	1326.1	1306.6	1278.4	1252.4	1215.4	1187.2	1152.5	1126.5	1111.2
32.5°	1241.4	1245.8	1232.8	1217.7	1195.9	1165.5	1135.1	1102.6	1070.0	1050.5	1039.7
35°	1143.8	1148.1	1141.7	1126.5	1102.6	1076.5	1046.1	1022.3	994.0	970.2	959.3
37.5°	1041.8	1041.8	1037.4	1028.7	1011.4	987.6	957.1	933.2	909.3	889.8	883.3
40°	939.8	935.4	933.2	926.7	911.6	889.8	870.3	850.8	826.9	813.9	805.2
42.5°	839.9	839.9	835.6	829.1	813.9	803.1	783.6	761.8	744.4	731.5	731.5
45°	748.8	751.0	744.4	740.2	731.5	714.1	696.8	681.5	666.3	657.6	653.2
47.5°	668.5	668.5	661.9	657.6	649.0	633.7	618.5	605.6	594.7	588.2	586.1
50°	592.5	592.5	592.5	581.7	570.8	560.0	549.1	533.9	527.4	523.0	520.9
52.5°	527.4	525.2	525.2	516.5	505.7	492.7	481.8	468.8	462.3	458.0	460.1
55°	468.8	468.8	466.7	455.7	444.9	432.0	421.0	410.2	405.9	401.5	403.7
56°	444.9	444.9	442.8	434.1	421.0	410.2	397.1	386.3	379.8	382.0	382.0
57°	427.6	423.3	423.3	412.3	401.5	386.3	375.5	364.7	360.3	358.1	358.1
58°	405.9	403.7	401.5	390.7	379.8	366.8	356.0	345.0	338.6	338.6	336.4
59°	384.2	384.2	379.8	371.1	360.3	347.3	336.4	325.5	319.0	316.9	316.9
60°	364.7	366.8	360.3	351.6	342.9	327.7	314.7	306.0	299.5	297.4	297.4
61°	347.3	347.3	342.9	332.1	321.3	310.3	297.4	286.5	282.1	277.9	277.9
62°	332.1	327.7	325.5	314.7	303.9	290.8	280.0	269.2	262.7	258.3	260.4
63°	312.6	310.3	306.0	297.4	286.5	273.5	260.4	251.7	245.3	238.8	240.9
64°	297.4	295.2	288.7	280.0	269.2	256.1	243.0	234.4	230.1	223.5	221.4
65°	277.9	275.6	273.5	262.7	251.7	238.8	227.9	219.3	212.7	208.3	204.0
66°	260.4	262.7	258.3	249.6	236.6	225.7	210.6	201.9	197.5	191.0	186.7
67°	245.3	245.3	240.9	232.2	219.3	208.3	197.5	186.7	180.1	173.6	171.5
67.5°	236.6	236.6	232.2	221.4	212.7	199.6	188.8	180.1	171.5	167.2	162.8
68°	227.9	227.9	225.7	217.0	206.2	193.2	182.3	171.5	162.8	156.2	154.1
69°	212.7	214.9	210.6	201.9	191.0	178.0	167.2	158.5	149.8	143.3	138.9
70°	199.6	197.5	193.2	184.5	173.6	164.9	154.1	143.3	134.6	125.9	123.7
71°	182.3	182.3	178.0	171.5	160.6	149.8	138.9	130.2	121.5	110.7	108.6
72°	169.3	169.3	164.9	156.2	147.6	136.7	125.9	115.0	108.6	97.6	93.3
72.5°	160.6	162.8	158.5	149.8	141.1	128.1	119.4	110.7	99.9	91.2	86.8
73°	156.2	154.1	152.0	143.3	132.3	123.7	112.8	104.2	93.3	84.7	80.3



TEST NUMBER: P584260
CATALOG NUMBER: HCC8S30D010MW-HM82555830-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	97.6	97.6	95.5	86.8	78.1	69.4	60.8	52.1	43.4	34.7	30.4
80°	67.3	69.4	65.2	60.8	54.2	45.5	36.9	30.4	21.8	17.4	13.1
82.5°	43.4	43.4	41.3	36.9	32.6	26.0	21.8	15.2	10.8	8.7	6.5
85°	21.8	23.9	21.8	19.5	15.2	13.1	10.8	6.5	4.4	2.1	2.1
87.5°	8.7	8.7	8.7	6.5	6.5	4.4	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: P584260

CATALOG NUMBER: HCC8S30D010MW-HM82555830-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7
2.5°	1595.3	1595.3	1590.9	1588.7	1586.6	1584.3	1582.2	1580.1	1580.1	1582.2
5°	1582.2	1577.9	1569.2	1567.0	1560.6	1558.3	1554.0	1551.9	1554.0	1551.9
7.5°	1562.7	1554.0	1543.2	1538.8	1530.1	1525.8	1519.3	1519.3	1514.9	1517.2
10°	1536.7	1523.6	1510.6	1501.9	1495.4	1488.9	1484.6	1480.2	1478.0	1478.0
12.5°	1504.1	1488.9	1475.9	1462.8	1452.0	1447.6	1438.9	1438.9	1434.6	1432.5
15°	1467.2	1447.6	1432.5	1419.4	1410.7	1402.1	1395.5	1391.2	1386.8	1386.8
17.5°	1419.4	1402.1	1386.8	1371.7	1358.7	1352.1	1345.7	1339.2	1339.2	1334.8
20°	1367.4	1347.9	1334.8	1319.6	1308.7	1297.9	1289.2	1289.2	1284.8	1287.1
22.5°	1308.7	1284.8	1271.9	1261.1	1250.1	1241.4	1232.8	1232.8	1230.6	1228.5
25°	1243.7	1224.1	1209.0	1195.9	1189.4	1180.7	1178.5	1174.1	1172.0	1172.0
27.5°	1174.1	1159.0	1139.4	1133.0	1124.3	1119.9	1119.9	1117.8	1113.4	1115.6
30°	1100.4	1083.1	1072.2	1067.8	1059.2	1059.2	1057.0	1052.6	1052.6	1054.8
32.5°	1028.7	1011.4	1002.7	1000.5	991.9	991.9	989.7	991.9	991.9	994.0
35°	950.6	935.4	933.2	926.7	924.6	924.6	924.6	929.0	933.2	926.7
37.5°	876.9	865.9	859.5	857.3	859.5	859.5	861.7	868.2	865.9	863.8
40°	800.9	792.2	787.8	787.8	792.2	796.5	796.5	803.1	805.2	803.1
42.5°	724.9	718.4	718.4	720.5	724.9	727.1	733.6	740.2	742.3	744.4
45°	653.2	653.2	653.2	655.5	657.6	661.9	670.7	677.1	679.4	681.5
47.5°	583.8	581.7	588.2	590.3	596.9	599.0	605.6	614.2	616.4	618.5
50°	518.8	523.0	525.2	531.7	536.1	536.1	544.8	549.1	555.6	555.6
52.5°	458.0	464.4	466.7	473.1	475.4	477.5	481.8	488.3	492.7	492.7
55°	403.7	405.9	410.2	412.3	418.9	421.0	425.4	427.6	434.1	432.0
56°	379.8	384.2	386.3	390.7	395.0	397.1	401.5	403.7	408.1	410.2
57°	358.1	360.3	366.8	368.9	373.3	373.3	375.5	382.0	382.0	384.2
58°	336.4	340.8	342.9	345.0	349.4	351.6	356.0	358.1	360.3	358.1
59°	316.9	319.0	321.3	321.3	325.5	325.5	332.1	336.4	338.6	338.6
60°	297.4	297.4	299.5	301.6	306.0	308.2	308.2	312.6	312.6	312.6
61°	277.9	277.9	280.0	282.1	284.3	284.3	288.7	288.7	290.8	293.0
62°	260.4	258.3	258.3	260.4	260.4	264.8	266.9	269.2	271.3	269.2
63°	240.9	238.8	238.8	238.8	238.8	243.0	243.0	245.3	249.6	247.4
64°	219.3	219.3	219.3	219.3	221.4	221.4	225.7	227.9	230.1	232.2
65°	204.0	199.6	197.5	197.5	199.6	201.9	204.0	206.2	208.3	208.3
66°	186.7	182.3	180.1	180.1	180.1	180.1	184.5	184.5	188.8	188.8
67°	167.2	162.8	160.6	158.5	158.5	158.5	164.9	162.8	162.8	162.8
67.5°	160.6	154.1	152.0	149.8	147.6	152.0	149.8	152.0	152.0	149.8
68°	152.0	147.6	143.3	138.9	138.9	138.9	141.1	143.3	141.1	138.9
69°	134.6	132.3	125.9	121.5	119.4	121.5	119.4	121.5	119.4	121.5
70°	119.4	112.8	106.3	104.2	102.0	102.0	102.0	99.9	102.0	99.9
71°	104.2	97.6	91.2	86.8	84.7	84.7	82.5	84.7	82.5	84.7
72°	88.9	82.5	73.8	69.4	69.4	69.4	69.4	67.3	69.4	67.3
72.5°	82.5	73.8	67.3	62.9	60.8	60.8	60.8	60.8	58.6	60.8
73°	76.0	67.3	58.6	56.5	56.5	56.5	54.2	52.1	54.2	54.2



TEST NUMBER: P584260
 CATALOG NUMBER: HCC8S30D010MW-HM82555830-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	26.0	19.5	17.4	17.4	17.4	17.4	17.4	17.4	15.2	15.2
80°	10.8	8.7	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
82.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



74°	141.1	141.1	136.7	130.2	119.4	108.6	99.9	91.2	80.3	69.4	65.2
75°	130.2	128.1	123.7	117.2	108.6	97.6	88.9	78.1	69.4	58.6	54.2

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°	62.9	52.1	47.8	43.4	43.4	43.4	41.3	41.3	41.3	43.4
75°	49.9	41.3	36.9	32.6	34.7	32.6	34.7	32.6	32.6	32.6

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

Scaled Data Report



(END OF REPORT)