

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: P584447

Luminaire Tested: **HCC8S35D010BZ-HM82555927-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584447
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: HCC8S35D010BZ-HM82555927-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

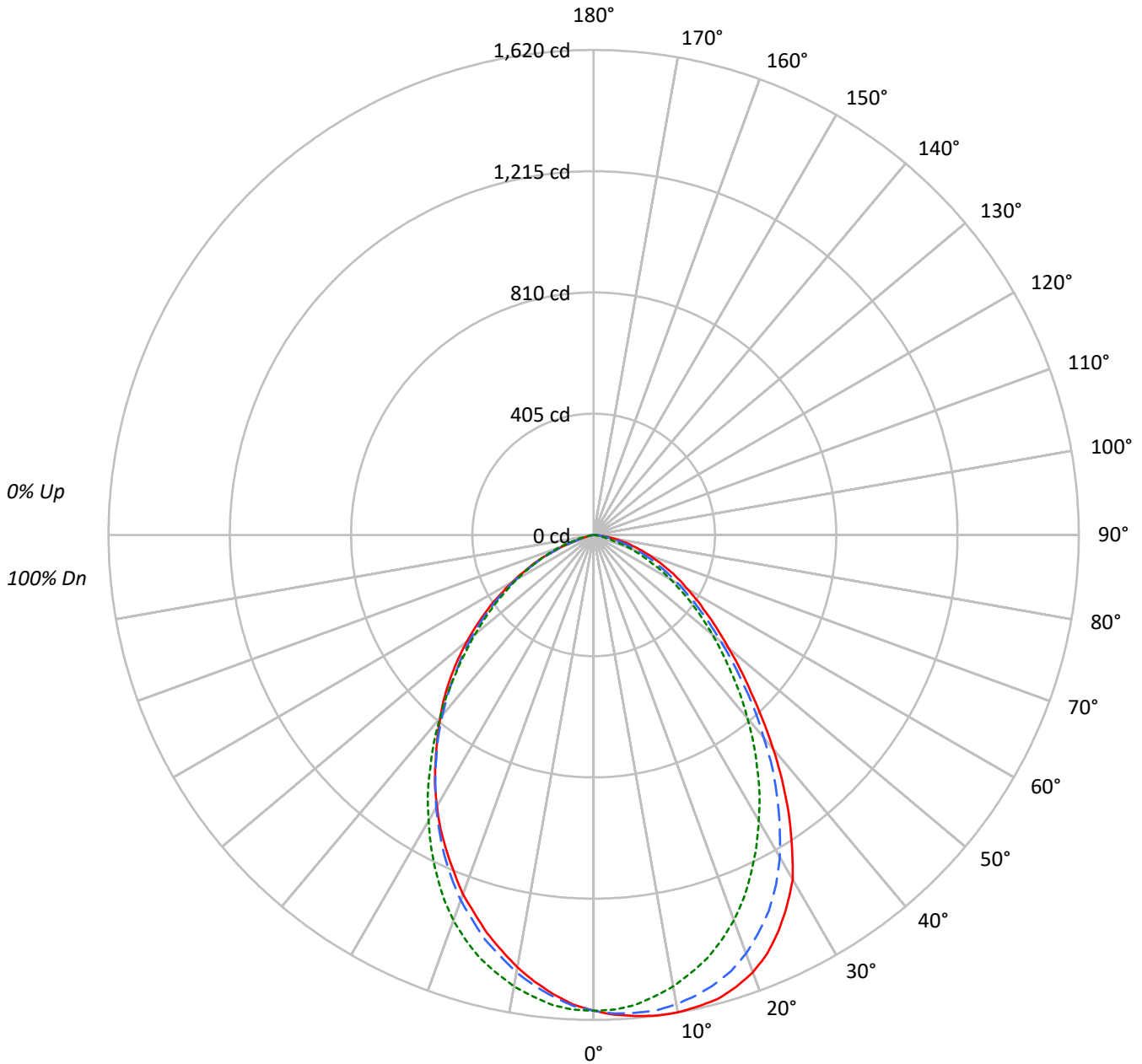
Lumens per Lamp: N/A
Luminaire Lumens: 2979.6 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
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: P584447
CATALOG NUMBER: HCC8S35D010BZ-HM82555927-81RWWH

Luminous Intensity Polar Plot





TEST NUMBER: P584447

CATALOG NUMBER: HCC8S35D010BZ-HM82555927-81RWWH

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°	49011	49011	49011
5°	49932	48796	47666
10°	50713	47948	45922
15°	51222	46750	43931
20°	51025	44947	41908
25°	49679	42353	39570
30°	47314	39260	37270
35°	42726	35834	34618
40°	37537	32159	32074
45°	32402	28267	29493
50°	28208	24792	26447
55°	25010	21537	23037
60°	22313	18200	19131
65°	20116	14775	15089
70°	17861	11072	8935
75°	15405	6410	3848
80°	11845	2291	1154
85°	7642	778	778



TEST NUMBER: P584447
 CATALOG NUMBER: HCC8S35D010BZ-HM82555927-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.2	5.0
10°-20°	415.4	13.9
20°-30°	587.5	19.7
30°-40°	619.0	20.8
40°-50°	526.1	17.7
50°-60°	378.8	12.7
60°-70°	218.5	7.3
70°-80°	74.8	2.5
80°-90°	10.3	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°	1152.0	38.7
0°-40°	1771.1	59.4
0°-60°	2676.0	89.8
0°-90°	2979.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2979.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1589	1589	1589	1589	1589	
5°	1613	1602	1576	1548	1540	154
15°	1604	1555	1464	1400	1376	452
25°	1460	1385	1245	1180	1163	670
35°	1135	1068	952	917	920	707
45°	743	708	648	653	676	577
55°	465	428	401	416	428	419
65°	276	237	202	198	207	274
75°	129	97	54	34	32	136
85°	22	13	2	2	2	29
90°	0	0	0	0	0	



TEST NUMBER: P584447

CATALOG NUMBER: HCC8S35D010BZ-HM82555927-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4
2.5°	1604.5	1606.6	1604.5	1604.5	1602.3	1600.2	1598.0	1595.9	1591.5	1587.2	1587.2
5°	1613.1	1617.4	1613.1	1613.1	1606.6	1602.3	1598.0	1591.5	1582.9	1576.4	1576.4
7.5°	1619.6	1619.6	1619.6	1613.1	1608.8	1602.3	1591.5	1580.8	1570.0	1559.2	1554.9
10°	1619.6	1619.6	1617.4	1608.8	1604.5	1591.5	1580.8	1565.7	1550.6	1535.6	1531.3
12.5°	1613.1	1615.3	1611.0	1602.3	1591.5	1576.4	1561.4	1542.1	1524.8	1507.6	1498.9
15°	1604.5	1602.3	1598.0	1587.2	1574.3	1554.9	1539.9	1518.3	1494.6	1473.1	1464.4
17.5°	1582.9	1582.9	1576.4	1565.7	1548.4	1527.0	1503.3	1479.5	1453.7	1430.1	1419.3
20°	1554.9	1554.9	1546.3	1533.4	1516.2	1488.2	1462.3	1434.4	1404.2	1380.5	1369.7
22.5°	1514.0	1516.2	1505.4	1490.3	1470.9	1438.7	1412.8	1378.3	1348.2	1320.2	1311.6
25°	1460.1	1464.4	1453.7	1438.7	1412.8	1384.8	1352.5	1320.2	1285.7	1257.8	1244.8
27.5°	1397.7	1399.9	1389.1	1374.0	1348.2	1318.0	1285.7	1251.3	1219.0	1188.8	1175.8
30°	1328.8	1320.2	1315.9	1296.5	1268.4	1242.7	1206.0	1178.0	1143.6	1117.7	1102.6
32.5°	1231.9	1236.2	1223.3	1208.2	1186.6	1156.5	1126.4	1094.0	1061.8	1042.4	1031.6
35°	1135.0	1139.3	1132.8	1117.7	1094.0	1068.3	1038.1	1014.3	986.3	962.7	951.9
37.5°	1033.8	1033.8	1029.4	1020.8	1003.6	980.0	949.8	926.1	902.3	883.0	876.6
40°	932.5	928.2	926.1	919.6	904.5	883.0	863.6	844.2	820.5	807.6	798.9
42.5°	833.4	833.4	829.1	822.7	807.6	796.8	777.5	755.9	738.7	725.7	725.7
45°	743.0	745.2	738.7	734.4	725.7	708.5	691.4	676.3	661.2	652.6	648.2
47.5°	663.3	663.3	656.9	652.6	643.9	628.8	613.7	600.9	590.1	583.7	581.5
50°	588.0	588.0	588.0	577.2	566.4	555.6	544.9	529.8	523.3	519.0	516.8
52.5°	523.3	521.1	521.1	512.6	501.8	488.9	478.1	465.2	458.7	454.4	456.6
55°	465.2	465.2	463.0	452.2	441.5	428.5	417.9	407.1	402.8	398.5	400.6
56°	441.5	441.5	439.3	430.7	417.9	407.1	394.1	383.4	376.9	379.0	379.0
57°	424.2	420.0	420.0	409.2	398.5	383.4	372.6	361.8	357.5	355.3	355.3
58°	402.8	400.6	398.5	387.7	376.9	364.0	353.2	342.4	335.9	335.9	333.8
59°	381.2	381.2	376.9	368.3	357.5	344.5	333.8	323.1	316.6	314.5	314.5
60°	361.8	364.0	357.5	348.9	340.2	325.3	312.3	303.7	297.2	295.1	295.1
61°	344.5	344.5	340.2	329.4	318.8	308.0	295.1	284.3	280.0	275.7	275.7
62°	329.4	325.3	323.1	312.3	301.5	288.6	277.8	267.0	260.6	256.3	258.4
63°	310.2	308.0	303.7	295.1	284.3	271.3	258.4	249.8	243.3	236.8	239.0
64°	295.1	292.9	286.4	277.8	267.0	254.1	241.2	232.7	228.3	221.9	219.7
65°	275.7	273.5	271.3	260.6	249.8	236.8	226.2	217.6	211.1	206.8	202.5
66°	258.4	260.6	256.3	247.6	234.7	224.0	208.9	200.3	196.0	189.5	185.2
67°	243.3	243.3	239.0	230.5	217.6	206.8	196.0	185.2	178.7	172.3	170.1
67.5°	234.7	234.7	230.5	219.7	211.1	198.1	187.4	178.7	170.1	165.8	161.5
68°	226.2	226.2	224.0	215.4	204.6	191.7	180.9	170.1	161.5	155.0	152.9
69°	211.1	213.2	208.9	200.3	189.5	176.6	165.8	157.2	148.6	142.1	137.9
70°	198.1	196.0	191.7	183.1	172.3	163.6	152.9	142.1	133.6	125.0	122.8
71°	180.9	180.9	176.6	170.1	159.3	148.6	137.9	129.3	120.6	109.9	107.7
72°	168.0	168.0	163.6	155.0	146.4	135.7	125.0	114.2	107.7	96.9	92.6
72.5°	159.3	161.5	157.2	148.6	140.0	127.1	118.5	109.9	99.1	90.4	86.1
73°	155.0	152.9	150.7	142.1	131.4	122.8	112.0	103.4	92.6	84.0	79.7



TEST NUMBER: P584447
 CATALOG NUMBER: HCC8S35D010BZ-HM82555927-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	96.9	96.9	94.8	86.1	77.5	68.9	60.3	51.6	43.1	34.5	30.2
80°	66.7	68.9	64.6	60.3	53.8	45.3	36.7	30.2	21.6	17.3	12.9
82.5°	43.1	43.1	41.0	36.7	32.3	25.9	21.6	15.1	10.8	8.6	6.5
85°	21.6	23.7	21.6	19.4	15.1	12.9	10.8	6.5	4.3	2.2	2.2
87.5°	8.6	8.6	8.6	6.5	6.5	4.3	2.2	2.2	2.2	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: P584447

CATALOG NUMBER: HCC8S35D010BZ-HM82555927-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4	1589.4
2.5°	1582.9	1582.9	1578.6	1576.4	1574.3	1572.1	1570.0	1567.8	1567.8	1570.0
5°	1570.0	1565.7	1557.0	1554.9	1548.4	1546.3	1542.1	1539.9	1542.1	1539.9
7.5°	1550.6	1542.1	1531.3	1527.0	1518.3	1514.0	1507.6	1507.6	1503.3	1505.4
10°	1524.8	1511.9	1498.9	1490.3	1483.8	1477.4	1473.1	1468.7	1466.6	1466.6
12.5°	1492.5	1477.4	1464.4	1451.5	1440.8	1436.5	1427.9	1427.9	1423.6	1421.4
15°	1455.8	1436.5	1421.4	1408.5	1399.9	1391.2	1384.8	1380.5	1376.1	1376.1
17.5°	1408.5	1391.2	1376.1	1361.0	1348.2	1341.8	1335.3	1328.8	1328.8	1324.5
20°	1356.7	1337.4	1324.5	1309.4	1298.6	1287.8	1279.2	1279.2	1274.9	1277.1
22.5°	1298.6	1274.9	1262.1	1251.3	1240.5	1231.9	1223.3	1223.3	1221.1	1219.0
25°	1234.1	1214.7	1199.6	1186.6	1180.1	1171.5	1169.5	1165.2	1163.0	1163.0
27.5°	1165.2	1150.1	1130.7	1124.2	1115.6	1111.3	1111.3	1109.1	1104.8	1107.0
30°	1091.9	1074.7	1063.9	1059.6	1051.0	1051.0	1048.8	1044.5	1044.5	1046.7
32.5°	1020.8	1003.6	994.9	992.8	984.2	984.2	982.1	984.2	984.2	986.3
35°	943.3	928.2	926.1	919.6	917.4	917.4	917.4	921.7	926.1	919.6
37.5°	870.1	859.3	852.9	850.7	852.9	852.9	855.0	861.5	859.3	857.2
40°	794.8	786.1	781.8	781.8	786.1	790.4	790.4	796.8	798.9	796.8
42.5°	719.3	712.8	712.8	715.0	719.3	721.4	727.9	734.4	736.5	738.7
45°	648.2	648.2	648.2	650.4	652.6	656.9	665.5	672.0	674.1	676.3
47.5°	579.4	577.2	583.7	585.8	592.3	594.4	600.9	609.4	611.6	613.7
50°	514.7	519.0	521.1	527.6	531.9	531.9	540.5	544.9	551.3	551.3
52.5°	454.4	460.9	463.0	469.5	471.7	473.8	478.1	484.6	488.9	488.9
55°	400.6	402.8	407.1	409.2	415.7	417.9	422.1	424.2	430.7	428.5
56°	376.9	381.2	383.4	387.7	392.0	394.1	398.5	400.6	404.9	407.1
57°	355.3	357.5	364.0	366.1	370.4	370.4	372.6	379.0	379.0	381.2
58°	333.8	338.1	340.2	342.4	346.7	348.9	353.2	355.3	357.5	355.3
59°	314.5	316.6	318.8	318.8	323.1	323.1	329.4	333.8	335.9	335.9
60°	295.1	295.1	297.2	299.4	303.7	305.8	305.8	310.2	310.2	310.2
61°	275.7	275.7	277.8	280.0	282.1	282.1	286.4	286.4	288.6	290.8
62°	258.4	256.3	256.3	258.4	258.4	262.7	264.9	267.0	269.2	267.0
63°	239.0	236.8	236.8	236.8	236.8	241.2	241.2	243.3	247.6	245.5
64°	217.6	217.6	217.6	217.6	219.7	219.7	224.0	226.2	228.3	230.5
65°	202.5	198.1	196.0	196.0	198.1	200.3	202.5	204.6	206.8	206.8
66°	185.2	180.9	178.7	178.7	178.7	178.7	183.1	183.1	187.4	187.4
67°	165.8	161.5	159.3	157.2	157.2	157.2	163.6	161.5	161.5	161.5
67.5°	159.3	152.9	150.7	148.6	146.4	150.7	148.6	150.7	150.7	148.6
68°	150.7	146.4	142.1	137.9	137.9	137.9	140.0	142.1	140.0	137.9
69°	133.6	131.4	125.0	120.6	118.5	120.6	118.5	120.6	118.5	120.6
70°	118.5	112.0	105.5	103.4	101.2	101.2	101.2	99.1	101.2	99.1
71°	103.4	96.9	90.4	86.1	84.0	84.0	81.8	84.0	81.8	84.0
72°	88.3	81.8	73.2	68.9	68.9	68.9	68.9	66.7	68.9	66.7
72.5°	81.8	73.2	66.7	62.4	60.3	60.3	60.3	60.3	58.1	60.3
73°	75.4	66.7	58.1	55.9	55.9	55.9	53.8	51.6	53.8	53.8



TEST NUMBER: P584447
 CATALOG NUMBER: HCC8S35D010BZ-HM82555927-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	25.9	19.4	17.3	17.3	17.3	17.3	17.3	17.3	15.1	15.1
80°	10.8	8.6	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
82.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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°	140.0	140.0	135.7	129.3	118.5	107.7	99.1	90.4	79.7	68.9	64.6
75°	129.3	127.1	122.8	116.3	107.7	96.9	88.3	77.5	68.9	58.1	53.8

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°	62.4	51.6	47.3	43.1	43.1	43.1	41.0	41.0	41.0	43.1
75°	49.5	41.0	36.7	32.3	34.5	32.3	34.5	32.3	32.3	32.3

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

Scaled Data Report



(END OF REPORT)