

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: P584753

Luminaire Tested: **HCC8S45D010MB-HM82555935-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584753
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: HCC8S45D010MB-HM82555935-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

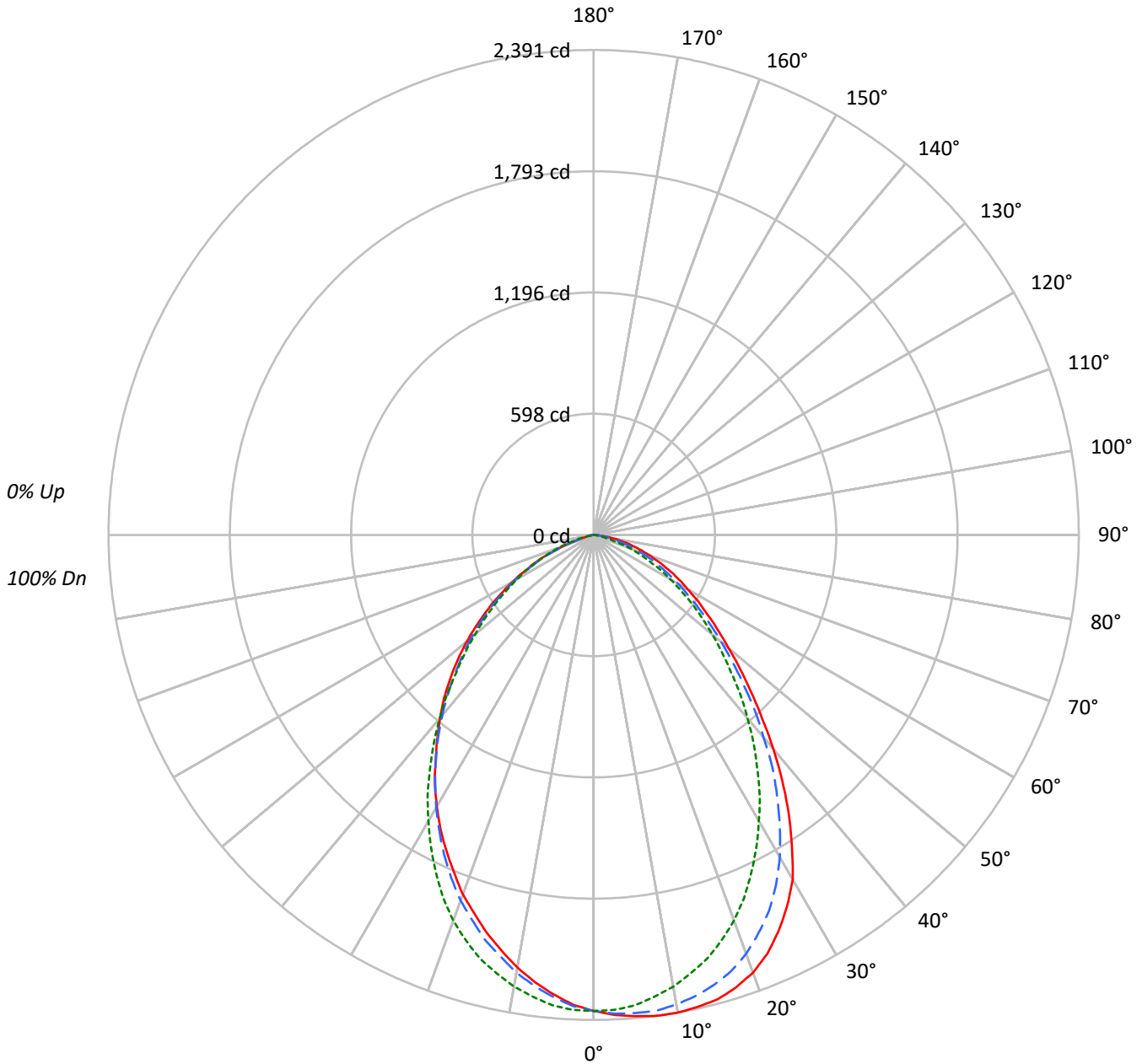
Lumens per Lamp: N/A
Luminaire Lumens: 4399.7 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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: P584753
CATALOG NUMBER: HCC8S45D010MB-HM82555935-81RWWH

Luminous Intensity Polar Plot





TEST NUMBER: P584753

CATALOG NUMBER: HCC8S45D010MB-HM82555935-81RWWH

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°	72370	72370	72370
5°	73730	72055	70380
10°	74880	70800	67812
15°	75635	69033	64873
20°	75344	66372	61883
25°	73359	62540	58430
30°	69864	57975	55030
35°	63088	52913	51117
40°	55430	47492	47363
45°	47844	41743	43548
50°	41645	36618	39055
55°	36929	31800	34020
60°	32952	26871	28240
65°	29697	21809	22276
70°	26372	16337	13190
75°	22732	9472	5683
80°	17492	3392	1687
85°	11251	1132	1132



TEST NUMBER: P584753
 CATALOG NUMBER: HCC8S45D010MB-HM82555935-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.3	5.0
10°-20°	613.3	13.9
20°-30°	867.5	19.7
30°-40°	914.1	20.8
40°-50°	776.8	17.7
50°-60°	559.4	12.7
60°-70°	322.7	7.3
70°-80°	110.4	2.5
80°-90°	15.2	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°	1701.1	38.7
0°-40°	2615.2	59.4
0°-60°	3951.4	89.8
0°-90°	4399.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4399.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2347	2347	2347	2347	2347	
5°	2382	2366	2328	2286	2274	228
15°	2369	2296	2162	2067	2032	667
25°	2156	2045	1838	1743	1717	989
35°	1676	1577	1406	1355	1358	1044
45°	1097	1046	957	964	999	852
55°	687	633	592	614	633	618
65°	407	350	299	292	305	405
75°	191	143	80	51	48	201
85°	32	19	3	3	3	43
90°	0	0	0	0	0	



TEST NUMBER: P584753

CATALOG NUMBER: HCC8S45D010MB-HM82555935-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9
2.5°	2369.2	2372.4	2369.2	2369.2	2366.1	2362.8	2359.6	2356.4	2350.1	2343.8	2343.8
5°	2381.9	2388.2	2381.9	2381.9	2372.4	2366.1	2359.6	2350.1	2337.4	2327.8	2327.8
7.5°	2391.4	2391.4	2391.4	2381.9	2375.6	2366.1	2350.1	2334.2	2318.3	2302.4	2296.0
10°	2391.4	2391.4	2388.2	2375.6	2369.2	2350.1	2334.2	2312.0	2289.7	2267.4	2261.1
12.5°	2381.9	2385.1	2378.7	2366.1	2350.1	2327.8	2305.5	2276.9	2251.6	2226.1	2213.3
15°	2369.2	2366.1	2359.6	2343.8	2324.7	2296.0	2273.7	2242.0	2207.0	2175.2	2162.4
17.5°	2337.4	2337.4	2327.8	2312.0	2286.5	2254.7	2219.7	2184.7	2146.6	2111.6	2095.7
20°	2296.0	2296.0	2283.4	2264.2	2238.8	2197.5	2159.3	2118.0	2073.4	2038.4	2022.6
22.5°	2235.6	2238.8	2223.0	2200.7	2172.0	2124.3	2086.2	2035.3	1990.7	1949.4	1936.7
25°	2156.1	2162.4	2146.6	2124.3	2086.2	2044.8	1997.1	1949.4	1898.5	1857.2	1838.1
27.5°	2063.9	2067.1	2051.2	2028.9	1990.7	1946.2	1898.5	1847.6	1800.0	1755.4	1736.4
30°	1962.1	1949.4	1943.1	1914.5	1873.0	1834.9	1780.8	1739.6	1688.7	1650.5	1628.2
32.5°	1819.0	1825.4	1806.3	1784.0	1752.2	1707.8	1663.2	1615.5	1567.8	1539.2	1523.3
35°	1675.9	1682.3	1672.7	1650.5	1615.5	1577.3	1532.8	1497.8	1456.5	1421.6	1405.6
37.5°	1526.4	1526.4	1520.1	1507.4	1482.0	1446.9	1402.4	1367.5	1332.4	1303.8	1294.3
40°	1377.0	1370.7	1367.5	1357.9	1335.7	1303.8	1275.2	1246.5	1211.6	1192.6	1179.8
42.5°	1230.7	1230.7	1224.4	1214.8	1192.6	1176.6	1148.0	1116.2	1090.8	1071.7	1071.7
45°	1097.1	1100.3	1090.8	1084.4	1071.7	1046.2	1020.9	998.6	976.3	963.6	957.2
47.5°	979.5	979.5	970.0	963.6	950.8	928.5	906.4	887.3	871.3	861.8	858.6
50°	868.1	868.1	868.1	852.3	836.3	820.5	804.6	782.3	772.8	766.4	763.3
52.5°	772.8	769.6	769.6	756.8	741.0	721.9	706.0	686.9	677.4	671.0	674.2
55°	686.9	686.9	683.7	667.8	652.0	632.8	617.0	601.0	594.7	588.4	591.5
56°	652.0	652.0	648.8	636.0	617.0	601.0	581.9	566.1	556.5	559.8	559.8
57°	626.5	620.2	620.2	604.2	588.4	566.1	550.1	534.3	527.8	524.7	524.7
58°	594.7	591.5	588.4	572.4	556.5	537.5	521.5	505.7	496.1	496.1	492.9
59°	562.9	562.9	556.5	543.8	527.8	508.8	492.9	477.1	467.4	464.3	464.3
60°	534.3	537.5	527.8	515.2	502.5	480.2	461.1	448.4	438.8	435.7	435.7
61°	508.8	508.8	502.5	486.6	470.6	454.8	435.7	419.8	413.4	407.0	407.0
62°	486.6	480.2	477.1	461.1	445.3	426.2	410.2	394.4	384.7	378.4	381.6
63°	457.9	454.8	448.4	435.7	419.8	400.7	381.6	368.9	359.4	349.8	353.0
64°	435.7	432.5	423.0	410.2	394.4	375.2	356.1	343.5	337.1	327.5	324.3
65°	407.0	403.9	400.7	384.7	368.9	349.8	334.0	321.2	311.7	305.3	298.9
66°	381.6	384.7	378.4	365.7	346.6	330.8	308.5	295.7	289.4	279.9	273.5
67°	359.4	359.4	353.0	340.3	321.2	305.3	289.4	273.5	263.9	254.4	251.3
67.5°	346.6	346.6	340.3	324.3	311.7	292.5	276.7	263.9	251.3	244.9	238.5
68°	334.0	334.0	330.8	318.0	302.2	283.0	267.1	251.3	238.5	229.0	225.8
69°	311.7	314.8	308.5	295.7	279.9	260.8	244.9	232.1	219.5	209.8	203.5
70°	292.5	289.4	283.0	270.3	254.4	241.6	225.8	209.8	197.2	184.4	181.2
71°	267.1	267.1	260.8	251.3	235.3	219.5	203.5	190.8	178.1	162.2	159.1
72°	248.1	248.1	241.6	229.0	216.3	200.3	184.4	168.6	159.1	143.1	136.8
72.5°	235.3	238.5	232.1	219.5	206.7	187.7	174.9	162.2	146.3	133.6	127.2
73°	229.0	225.8	222.6	209.8	194.0	181.2	165.4	152.6	136.8	124.0	117.7



TEST NUMBER: P584753
 CATALOG NUMBER: HCC8S45D010MB-HM82555935-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	<i>143.1</i>	143.1	139.9	127.2	114.5	101.8	89.0	76.4	63.6	50.9	44.6
80°	<i>98.5</i>	101.8	95.4	89.0	79.5	66.7	54.1	44.6	31.8	25.5	19.1
82.5°	<i>63.6</i>	63.6	60.4	54.1	47.7	38.1	31.8	22.3	16.0	12.7	9.5
85°	<i>31.8</i>	35.0	31.8	28.6	22.3	19.1	16.0	9.5	6.3	3.2	3.2
87.5°	<i>12.7</i>	12.7	12.7	9.5	9.5	6.3	3.2	3.2	3.2	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

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



TEST NUMBER: P584753

CATALOG NUMBER: HCC8S45D010MB-HM82555935-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9	2346.9
2.5°	2337.4	2337.4	2331.0	2327.8	2324.7	2321.5	2318.3	2315.2	2315.2	2318.3
5°	2318.3	2312.0	2299.2	2296.0	2286.5	2283.4	2276.9	2273.7	2276.9	2273.7
7.5°	2289.7	2276.9	2261.1	2254.7	2242.0	2235.6	2226.1	2226.1	2219.7	2223.0
10°	2251.6	2232.5	2213.3	2200.7	2191.0	2181.5	2175.2	2168.9	2165.7	2165.7
12.5°	2203.8	2181.5	2162.4	2143.4	2127.5	2121.1	2108.5	2108.5	2102.0	2098.8
15°	2149.8	2121.1	2098.8	2079.8	2067.1	2054.4	2044.8	2038.4	2032.1	2032.1
17.5°	2079.8	2054.4	2032.1	2009.8	1990.7	1981.2	1971.7	1962.1	1962.1	1955.7
20°	2003.5	1974.9	1955.7	1933.5	1917.6	1901.7	1889.0	1889.0	1882.7	1885.8
22.5°	1917.6	1882.7	1863.5	1847.6	1831.8	1819.0	1806.3	1806.3	1803.1	1800.0
25°	1822.3	1793.6	1771.3	1752.2	1742.7	1729.9	1726.8	1720.4	1717.3	1717.3
27.5°	1720.4	1698.2	1669.5	1660.0	1647.2	1640.9	1640.9	1637.7	1631.4	1634.6
30°	1612.3	1586.8	1571.0	1564.7	1551.9	1551.9	1548.7	1542.4	1542.4	1545.5
32.5°	1507.4	1482.0	1469.2	1466.0	1453.3	1453.3	1450.2	1453.3	1453.3	1456.5
35°	1392.9	1370.7	1367.5	1357.9	1354.7	1354.7	1354.7	1361.0	1367.5	1357.9
37.5°	1284.8	1268.8	1259.3	1256.2	1259.3	1259.3	1262.5	1272.0	1268.8	1265.7
40°	1173.5	1160.7	1154.3	1154.3	1160.7	1167.1	1167.1	1176.6	1179.8	1176.6
42.5°	1062.2	1052.7	1052.7	1055.8	1062.2	1065.3	1074.8	1084.4	1087.6	1090.8
45°	957.2	957.2	957.2	960.3	963.6	970.0	982.6	992.2	995.4	998.6
47.5°	855.5	852.3	861.8	865.0	874.5	877.8	887.3	899.9	903.1	906.4
50°	760.1	766.4	769.6	779.1	785.4	785.4	798.2	804.6	814.1	814.1
52.5°	671.0	680.6	683.7	693.2	696.4	699.6	706.0	715.5	721.9	721.9
55°	591.5	594.7	601.0	604.2	613.7	617.0	623.3	626.5	636.0	632.8
56°	556.5	562.9	566.1	572.4	578.8	581.9	588.4	591.5	597.9	601.0
57°	524.7	527.8	537.5	540.6	547.0	547.0	550.1	559.8	559.8	562.9
58°	492.9	499.2	502.5	505.7	512.0	515.2	521.5	524.7	527.8	524.7
59°	464.3	467.4	470.6	470.6	477.1	477.1	486.6	492.9	496.1	496.1
60°	435.7	435.7	438.8	442.0	448.4	451.6	451.6	457.9	457.9	457.9
61°	407.0	407.0	410.2	413.4	416.6	416.6	423.0	423.0	426.2	429.3
62°	381.6	378.4	378.4	381.6	381.6	388.0	391.2	394.4	397.5	394.4
63°	353.0	349.8	349.8	349.8	349.8	356.1	356.1	359.4	365.7	362.6
64°	321.2	321.2	321.2	321.2	324.3	324.3	330.8	334.0	337.1	340.3
65°	298.9	292.5	289.4	289.4	292.5	295.7	298.9	302.2	305.3	305.3
66°	273.5	267.1	263.9	263.9	263.9	263.9	270.3	270.3	276.7	276.7
67°	244.9	238.5	235.3	232.1	232.1	232.1	241.6	238.5	238.5	238.5
67.5°	235.3	225.8	222.6	219.5	216.3	222.6	219.5	222.6	222.6	219.5
68°	222.6	216.3	209.8	203.5	203.5	203.5	206.7	209.8	206.7	203.5
69°	197.2	194.0	184.4	178.1	174.9	178.1	174.9	178.1	174.9	178.1
70°	174.9	165.4	155.8	152.6	149.4	149.4	149.4	146.3	149.4	146.3
71°	152.6	143.1	133.6	127.2	124.0	124.0	120.8	124.0	120.8	124.0
72°	130.4	120.8	108.2	101.8	101.8	101.8	101.8	98.5	101.8	98.5
72.5°	120.8	108.2	98.5	92.2	89.0	89.0	89.0	89.0	85.9	89.0
73°	111.3	98.5	85.9	82.7	82.7	82.7	79.5	76.4	79.5	79.5



TEST NUMBER: P584753
 CATALOG NUMBER: HCC8S45D010MB-HM82555935-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	38.1	28.6	25.5	25.5	25.5	25.5	25.5	25.5	22.3	22.3
80°	16.0	12.7	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
82.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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°	206.7	206.7	200.3	190.8	174.9	159.1	146.3	133.6	117.7	101.8	95.4
75°	190.8	187.7	181.2	171.7	159.1	143.1	130.4	114.5	101.8	85.9	79.5

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°	92.2	76.4	69.9	63.6	63.6	63.6	60.4	60.4	60.4	63.6
75°	73.2	60.4	54.1	47.7	50.9	47.7	50.9	47.7	47.7	47.7

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

Scaled Data Report



(END OF REPORT)