

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: P593699

Luminaire Tested: **HCC8W35D010MW-HM82555850-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593699
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: HCC8W35D010MW-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

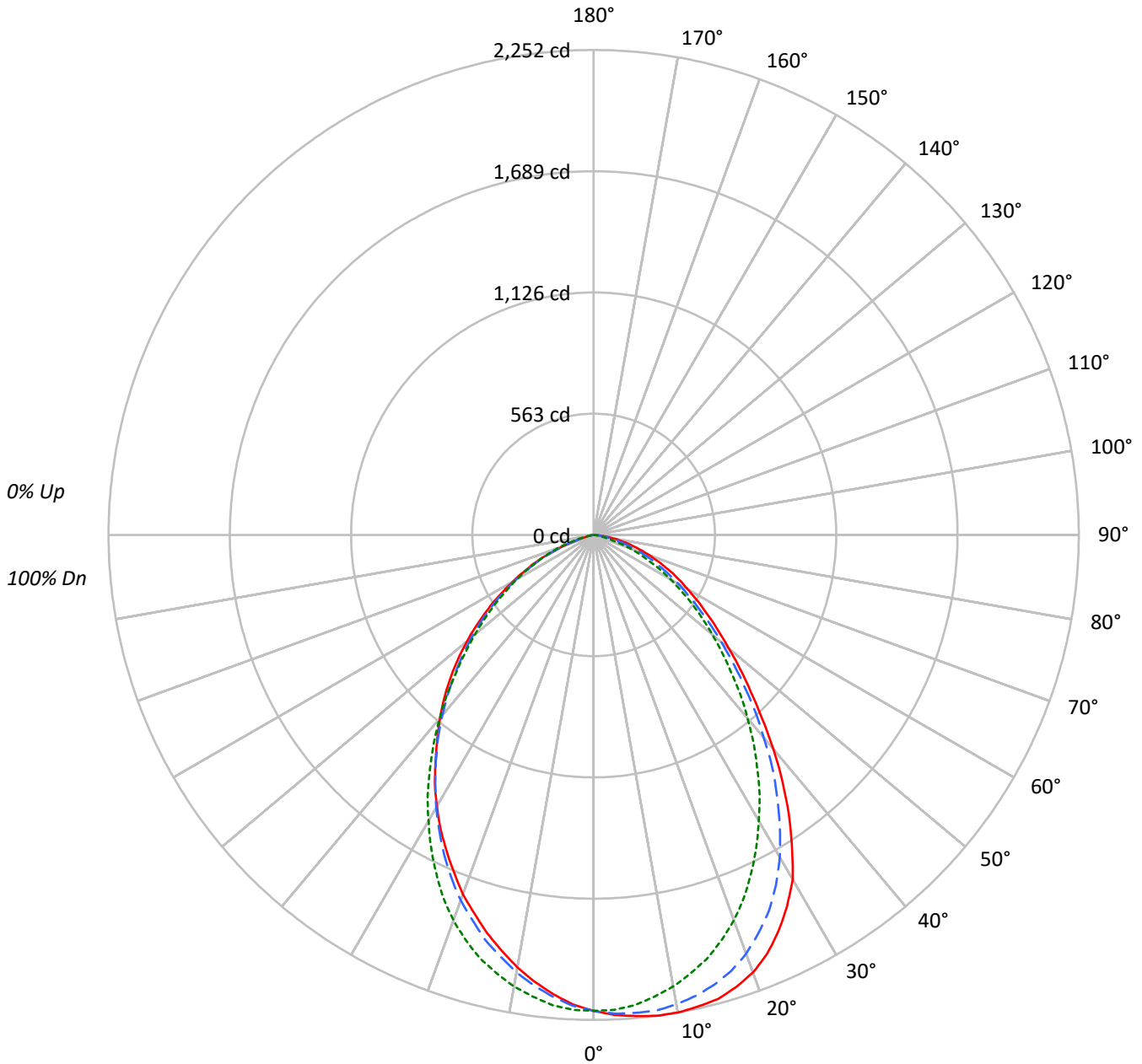
Lumens per Lamp: N/A
Luminaire Lumens: 4143.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (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: P593699
CATALOG NUMBER: HCC8W35D010MW-HM82555850-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P593699

CATALOG NUMBER: HCC8W35D010MW-HM82555850-81RWWH

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								
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°	68148	68148	68148
5°	69427	67851	66276
10°	70512	66666	63851
15°	71219	65004	61084
20°	70947	62497	58273
25°	69079	58892	55020
30°	65787	54592	51818
35°	59406	49826	48132
40°	52193	44718	44597
45°	45057	39309	41006
50°	39218	34478	36776
55°	34773	29945	32036
60°	31021	25298	26593
65°	27960	20540	20977
70°	24839	15390	12424
75°	21410	8924	5349
80°	16479	3196	1598
85°	10614	1061	1061



TEST NUMBER: P593699

CATALOG NUMBER: HCC8W35D010MW-HM82555850-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.5	5.0
10°-20°	577.5	13.9
20°-30°	816.8	19.7
30°-40°	860.7	20.8
40°-50°	731.5	17.7
50°-60°	526.7	12.7
60°-70°	303.9	7.3
70°-80°	104.0	2.5
80°-90°	14.3	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°	1601.8	38.7
0°-40°	2462.5	59.4
0°-60°	3720.8	89.8
0°-90°	4143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4143.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2210	2210	2210	2210	2210	
5°	2243	2228	2192	2153	2141	214
15°	2231	2162	2036	1946	1913	628
25°	2030	1925	1731	1641	1617	931
35°	1578	1485	1324	1276	1279	983
45°	1033	985	901	907	940	803
55°	647	596	557	578	596	582
65°	383	329	282	276	288	381
75°	180	135	75	48	45	190
85°	30	18	3	3	3	40
90°	0	0	0	0	0	



TEST NUMBER: P593699

CATALOG NUMBER: HCC8W35D010MW-HM82555850-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2210.0	2210.0	2210.0	2210.0	2210.0	2210.0	2210.0	2210.0	2210.0	2210.0	2210.0
2.5°	2230.9	2233.9	2230.9	2230.9	2227.9	2224.9	2221.9	2218.9	2212.9	2207.0	2207.0
5°	2242.9	2248.9	2242.9	2242.9	2233.9	2227.9	2221.9	2212.9	2201.0	2192.0	2192.0
7.5°	2251.9	2251.9	2251.9	2242.9	2236.9	2227.9	2212.9	2198.0	2183.0	2168.0	2162.0
10°	2251.9	2251.9	2248.9	2236.9	2230.9	2212.9	2198.0	2177.0	2156.0	2135.1	2129.1
12.5°	2242.9	2245.9	2239.9	2227.9	2212.9	2192.0	2171.0	2144.1	2120.1	2096.1	2084.2
15°	2230.9	2227.9	2221.9	2207.0	2189.0	2162.0	2141.1	2111.1	2078.2	2048.2	2036.2
17.5°	2201.0	2201.0	2192.0	2177.0	2153.0	2123.1	2090.2	2057.2	2021.3	1988.3	1973.3
20°	2162.0	2162.0	2150.1	2132.1	2108.1	2069.2	2033.2	1994.3	1952.4	1919.4	1904.5
22.5°	2105.1	2108.1	2093.1	2072.2	2045.2	2000.3	1964.4	1916.4	1874.5	1835.6	1823.6
25°	2030.3	2036.2	2021.3	2000.3	1964.4	1925.4	1880.5	1835.6	1787.7	1748.8	1730.9
27.5°	1943.4	1946.4	1931.4	1910.5	1874.5	1832.6	1787.7	1739.9	1694.9	1653.0	1635.0
30°	1847.6	1835.6	1829.6	1802.6	1763.8	1727.9	1677.0	1638.0	1590.1	1554.2	1533.2
32.5°	1712.9	1718.9	1700.9	1680.0	1650.0	1608.1	1566.1	1521.2	1476.3	1449.3	1434.4
35°	1578.1	1584.1	1575.1	1554.2	1521.2	1485.3	1443.4	1410.4	1371.5	1338.5	1323.6
37.5°	1437.4	1437.4	1431.4	1419.4	1395.4	1362.5	1320.6	1287.6	1254.7	1227.7	1218.7
40°	1296.6	1290.6	1287.6	1278.6	1257.7	1227.7	1200.8	1173.8	1140.9	1122.9	1110.9
42.5°	1158.8	1158.8	1152.8	1143.9	1122.9	1107.9	1081.0	1051.1	1027.2	1009.2	1009.2
45°	1033.2	1036.2	1027.2	1021.2	1009.2	985.2	961.3	940.3	919.3	907.4	901.4
47.5°	922.3	922.3	913.4	907.4	895.4	874.4	853.5	835.5	820.5	811.5	808.5
50°	817.5	817.5	817.5	802.5	787.6	772.6	757.6	736.7	727.7	721.7	718.7
52.5°	727.7	724.7	724.7	712.7	697.7	679.7	664.8	646.8	637.8	631.8	634.8
55°	646.8	646.8	643.8	628.8	613.9	595.9	580.9	565.9	559.9	554.0	557.0
56°	613.9	613.9	610.9	598.9	580.9	565.9	548.0	533.0	524.0	527.0	527.0
57°	589.9	583.9	583.9	568.9	554.0	533.0	518.0	503.0	497.1	494.1	494.1
58°	559.9	557.0	554.0	539.0	524.0	506.0	491.1	476.1	467.1	467.1	464.1
59°	530.0	530.0	524.0	512.0	497.1	479.1	464.1	449.1	440.1	437.2	437.2
60°	503.0	506.0	497.1	485.1	473.1	452.1	434.2	422.2	413.2	410.2	410.2
61°	479.1	479.1	473.1	458.1	443.1	428.2	410.2	395.2	389.2	383.2	383.2
62°	458.1	452.1	449.1	434.2	419.2	401.2	386.2	371.3	362.3	356.3	359.3
63°	431.2	428.2	422.2	410.2	395.2	377.3	359.3	347.4	338.4	329.4	332.4
64°	410.2	407.2	398.2	386.2	371.3	353.4	335.4	323.5	317.5	308.5	305.5
65°	383.2	380.2	377.3	362.3	347.4	329.4	314.5	302.5	293.5	287.5	281.5
66°	359.3	362.3	356.3	344.4	326.5	311.5	290.5	278.5	272.5	263.6	257.6
67°	338.4	338.4	332.4	320.5	302.5	287.5	272.5	257.6	248.6	239.6	236.6
67.5°	326.5	326.5	320.5	305.5	293.5	275.5	260.6	248.6	236.6	230.6	224.6
68°	314.5	314.5	311.5	299.5	284.5	266.6	251.6	236.6	224.6	215.6	212.6
69°	293.5	296.5	290.5	278.5	263.6	245.6	230.6	218.6	206.7	197.7	191.7
70°	275.5	272.5	266.6	254.6	239.6	227.6	212.6	197.7	185.7	173.7	170.7
71°	251.6	251.6	245.6	236.6	221.6	206.7	191.7	179.7	167.7	152.7	149.8
72°	233.6	233.6	227.6	215.6	203.7	188.7	173.7	158.7	149.8	134.8	128.8
72.5°	221.6	224.6	218.6	206.7	194.7	176.7	164.7	152.7	137.8	125.8	119.8
73°	215.6	212.6	209.6	197.7	182.7	170.7	155.7	143.8	128.8	116.8	110.8



TEST NUMBER: P593699
 CATALOG NUMBER: HCC8W35D010MW-HM82555850-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	134.8	134.8	131.8	119.8	107.8	95.8	83.9	71.9	59.9	47.9	41.9
80°	92.8	95.8	89.8	83.9	74.9	62.9	50.9	41.9	30.0	24.0	18.0
82.5°	59.9	59.9	56.9	50.9	44.9	35.9	30.0	21.0	15.0	12.0	9.0
85°	30.0	32.9	30.0	27.0	21.0	18.0	15.0	9.0	6.0	3.0	3.0
87.5°	12.0	12.0	12.0	9.0	9.0	6.0	3.0	3.0	3.0	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	0.0



TEST NUMBER: P593699

CATALOG NUMBER: HCC8W35D010MW-HM82555850-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2210.0	2210.0	2210.0	2210.0	2210.0	2210.0	2210.0	2210.0	2210.0	2210.0
2.5°	2201.0	2201.0	2195.0	2192.0	2189.0	2186.0	2183.0	2180.0	2180.0	2183.0
5°	2183.0	2177.0	2165.0	2162.0	2153.0	2150.1	2144.1	2141.1	2144.1	2141.1
7.5°	2156.0	2144.1	2129.1	2123.1	2111.1	2105.1	2096.1	2096.1	2090.2	2093.1
10°	2120.1	2102.1	2084.2	2072.2	2063.2	2054.2	2048.2	2042.2	2039.2	2039.2
12.5°	2075.2	2054.2	2036.2	2018.3	2003.3	1997.3	1985.3	1985.3	1979.3	1976.3
15°	2024.3	1997.3	1976.3	1958.4	1946.4	1934.4	1925.4	1919.4	1913.4	1913.4
17.5°	1958.4	1934.4	1913.4	1892.5	1874.5	1865.5	1856.5	1847.6	1847.6	1841.6
20°	1886.5	1859.5	1841.6	1820.6	1805.6	1790.7	1778.7	1778.7	1772.8	1775.8
22.5°	1805.6	1772.8	1754.8	1739.9	1724.9	1712.9	1700.9	1700.9	1697.9	1694.9
25°	1715.9	1688.9	1668.0	1650.0	1641.0	1629.0	1626.0	1620.1	1617.1	1617.1
27.5°	1620.1	1599.1	1572.1	1563.2	1551.2	1545.2	1545.2	1542.2	1536.2	1539.2
30°	1518.2	1494.3	1479.3	1473.3	1461.3	1461.3	1458.3	1452.3	1452.3	1455.3
32.5°	1419.4	1395.4	1383.5	1380.5	1368.5	1368.5	1365.5	1368.5	1368.5	1371.5
35°	1311.6	1290.6	1287.6	1278.6	1275.6	1275.6	1275.6	1281.6	1287.6	1278.6
37.5°	1209.7	1194.8	1185.8	1182.8	1185.8	1185.8	1188.8	1197.8	1194.8	1191.8
40°	1104.9	1092.9	1086.9	1086.9	1092.9	1098.9	1098.9	1107.9	1110.9	1107.9
42.5°	1000.2	991.2	991.2	994.2	1000.2	1003.2	1012.2	1021.2	1024.2	1027.2
45°	901.4	901.4	901.4	904.4	907.4	913.4	925.3	934.3	937.3	940.3
47.5°	805.5	802.5	811.5	814.5	823.5	826.5	835.5	847.5	850.5	853.5
50°	715.7	721.7	724.7	733.7	739.6	739.6	751.6	757.6	766.6	766.6
52.5°	631.8	640.8	643.8	652.8	655.8	658.8	664.8	673.8	679.7	679.7
55°	557.0	559.9	565.9	568.9	577.9	580.9	586.9	589.9	598.9	595.9
56°	524.0	530.0	533.0	539.0	545.0	548.0	554.0	557.0	562.9	565.9
57°	494.1	497.1	506.0	509.0	515.0	515.0	518.0	527.0	527.0	530.0
58°	464.1	470.1	473.1	476.1	482.1	485.1	491.1	494.1	497.1	494.1
59°	437.2	440.1	443.1	443.1	449.1	449.1	458.1	464.1	467.1	467.1
60°	410.2	410.2	413.2	416.2	422.2	425.2	425.2	431.2	431.2	431.2
61°	383.2	383.2	386.2	389.2	392.2	392.2	398.2	398.2	401.2	404.2
62°	359.3	356.3	356.3	359.3	359.3	365.3	368.3	371.3	374.3	371.3
63°	332.4	329.4	329.4	329.4	329.4	335.4	335.4	338.4	344.4	341.4
64°	302.5	302.5	302.5	302.5	305.5	305.5	311.5	314.5	317.5	320.5
65°	281.5	275.5	272.5	272.5	275.5	278.5	281.5	284.5	287.5	287.5
66°	257.6	251.6	248.6	248.6	248.6	248.6	254.6	254.6	260.6	260.6
67°	230.6	224.6	221.6	218.6	218.6	218.6	227.6	224.6	224.6	224.6
67.5°	221.6	212.6	209.6	206.7	203.7	209.6	206.7	209.6	209.6	206.7
68°	209.6	203.7	197.7	191.7	191.7	191.7	194.7	197.7	194.7	191.7
69°	185.7	182.7	173.7	167.7	164.7	167.7	164.7	167.7	164.7	167.7
70°	164.7	155.7	146.8	143.8	140.8	140.8	140.8	137.8	140.8	137.8
71°	143.8	134.8	125.8	119.8	116.8	116.8	113.8	116.8	113.8	116.8
72°	122.8	113.8	101.8	95.8	95.8	95.8	95.8	92.8	95.8	92.8
72.5°	113.8	101.8	92.8	86.9	83.9	83.9	83.9	83.9	80.9	83.9
73°	104.8	92.8	80.9	77.9	77.9	77.9	74.9	71.9	74.9	74.9



TEST NUMBER: P593699
 CATALOG NUMBER: HCC8W35D010MW-HM82555850-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	35.9	27.0	24.0	24.0	24.0	24.0	24.0	24.0	21.0	21.0
80°	15.0	12.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
82.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
85°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
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°	194.7	194.7	188.7	179.7	164.7	149.8	137.8	125.8	110.8	95.8	89.8
75°	179.7	176.7	170.7	161.7	149.8	134.8	122.8	107.8	95.8	80.9	74.9

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°	86.9	71.9	65.9	59.9	59.9	59.9	56.9	56.9	56.9	59.9
75°	68.9	56.9	50.9	44.9	47.9	44.9	47.9	44.9	44.9	44.9

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

Scaled Data Report



(END OF REPORT)