

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: P584413

Luminaire Tested: **HCC8W35D010MW-HM82555835-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584413
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-HM82555835-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

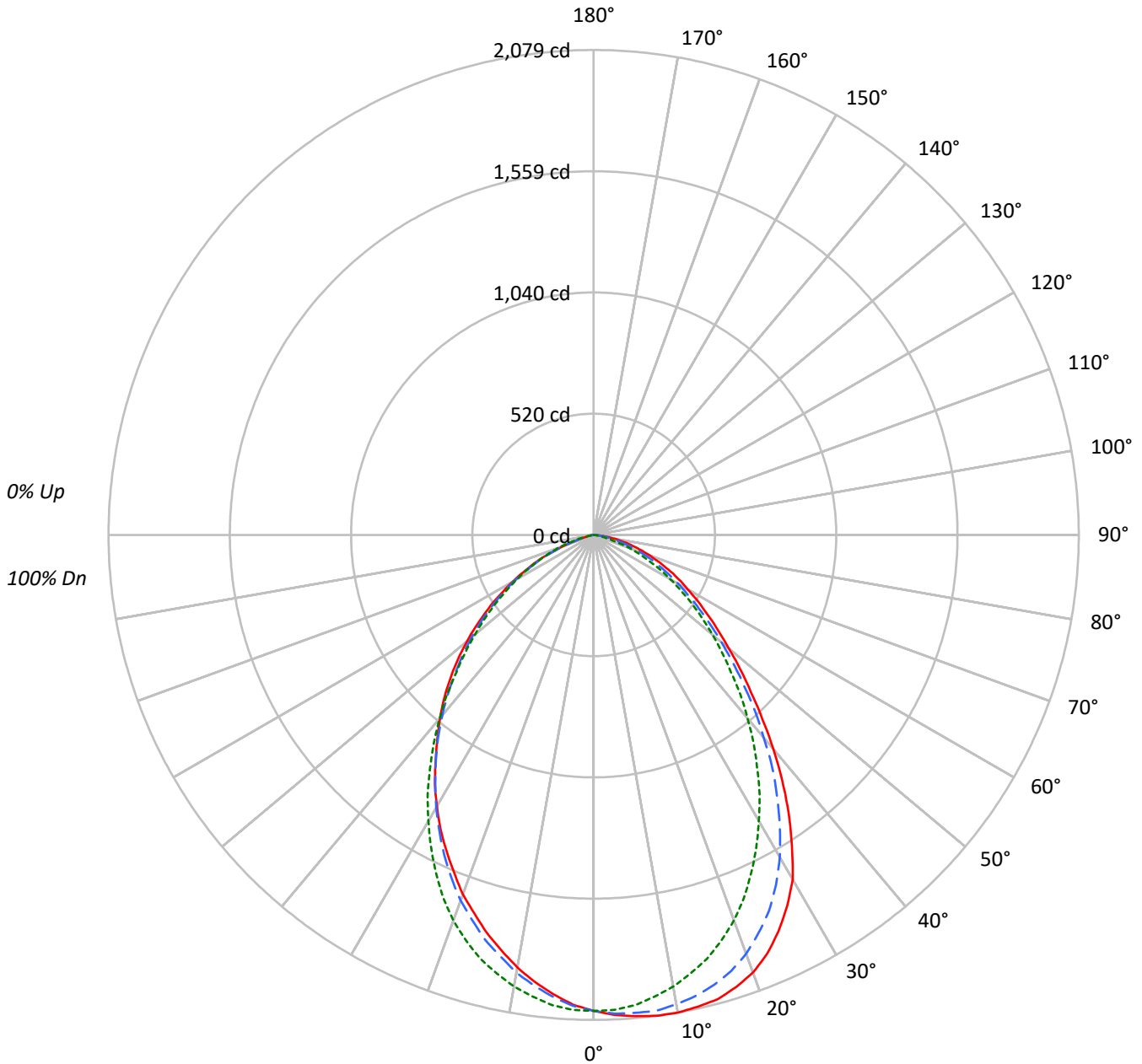
Lumens per Lamp: N/A
Luminaire Lumens: 3825.2 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584413
CATALOG NUMBER: HCC8W35D010MW-HM82555835-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P584413

CATALOG NUMBER: HCC8W35D010MW-HM82555835-81RWWH

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°	62918	62918	62918
5°	64103	62648	61190
10°	65101	61553	58957
15°	65757	60021	56400
20°	65506	57702	53804
25°	63782	54374	50801
30°	60745	50405	47845
35°	54851	46005	44443
40°	48192	41288	41180
45°	41594	36296	37861
50°	36215	31835	33955
55°	32106	27650	29580
60°	28647	23362	24552
65°	25822	18956	19372
70°	22928	14218	11468
75°	19766	8233	4944
80°	15219	2930	1474
85°	9800	991	991



TEST NUMBER: P584413

CATALOG NUMBER: HCC8W35D010MW-HM82555835-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.5	5.0
10°-20°	533.2	13.9
20°-30°	754.2	19.7
30°-40°	794.7	20.8
40°-50°	675.4	17.7
50°-60°	486.4	12.7
60°-70°	280.6	7.3
70°-80°	96.0	2.5
80°-90°	13.2	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°	1479.0	38.7
0°-40°	2273.7	59.4
0°-60°	3435.5	89.8
0°-90°	3825.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3825.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2040	2040	2040	2040	2040	
5°	2071	2057	2024	1988	1977	198
15°	2060	1996	1880	1797	1767	580
25°	1875	1778	1598	1515	1493	860
35°	1457	1371	1222	1178	1181	907
45°	954	910	832	838	868	741
55°	597	550	514	534	550	537
65°	354	304	260	254	266	352
75°	166	124	69	44	42	175
85°	28	16	3	3	3	37
90°	0	0	0	0	0	



TEST NUMBER: P584413

CATALOG NUMBER: HCC8W35D010MW-HM82555835-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2040.4	2040.4	2040.4	2040.4	2040.4	2040.4	2040.4	2040.4	2040.4	2040.4	2040.4
2.5°	2059.8	2062.6	2059.8	2059.8	2057.1	2054.3	2051.6	2048.8	2043.2	2037.7	2037.7
5°	2070.9	2076.4	2070.9	2070.9	2062.6	2057.1	2051.6	2043.2	2032.2	2023.9	2023.9
7.5°	2079.1	2079.1	2079.1	2070.9	2065.4	2057.1	2043.2	2029.4	2015.6	2001.7	1996.2
10°	2079.1	2079.1	2076.4	2065.4	2059.8	2043.2	2029.4	2010.0	1990.7	1971.3	1965.8
12.5°	2070.9	2073.6	2068.1	2057.1	2043.2	2023.9	2004.5	1979.7	1957.5	1935.4	1924.3
15°	2059.8	2057.1	2051.6	2037.7	2021.1	1996.2	1976.8	1949.3	1918.8	1891.2	1880.1
17.5°	2032.2	2032.2	2023.9	2010.0	1988.0	1960.3	1929.9	1899.4	1866.2	1835.8	1822.0
20°	1996.2	1996.2	1985.2	1968.6	1946.5	1910.6	1877.4	1841.4	1802.6	1772.3	1758.4
22.5°	1943.8	1946.5	1932.6	1913.3	1888.4	1847.0	1813.8	1769.6	1730.8	1694.8	1683.8
25°	1874.6	1880.1	1866.2	1847.0	1813.8	1777.8	1736.4	1694.8	1650.6	1614.7	1598.1
27.5°	1794.4	1797.1	1783.3	1763.9	1730.8	1692.1	1650.6	1606.4	1564.9	1526.3	1509.6
30°	1706.0	1694.8	1689.3	1664.5	1628.6	1595.4	1548.3	1512.4	1468.1	1435.0	1415.6
32.5°	1581.5	1587.0	1570.5	1551.1	1523.5	1484.7	1446.0	1404.5	1363.1	1338.2	1324.4
35°	1457.1	1462.6	1454.4	1435.0	1404.5	1371.4	1332.7	1302.2	1266.3	1235.9	1222.1
37.5°	1327.1	1327.1	1321.6	1310.5	1288.4	1258.0	1219.3	1188.9	1158.5	1133.5	1125.3
40°	1197.2	1191.7	1188.9	1180.6	1161.2	1133.5	1108.7	1083.8	1053.4	1036.9	1025.7
42.5°	1070.1	1070.1	1064.4	1056.2	1036.9	1023.0	998.2	970.5	948.3	931.8	931.8
45°	953.8	956.6	948.3	942.8	931.8	909.6	887.5	868.2	848.8	837.8	832.3
47.5°	851.5	851.5	843.3	837.8	826.7	807.3	788.0	771.4	757.6	749.2	746.5
50°	754.9	754.9	754.9	741.0	727.2	713.3	699.5	680.1	671.8	666.3	663.6
52.5°	671.8	669.1	669.1	658.1	644.2	627.6	613.9	597.2	588.9	583.4	586.2
55°	597.2	597.2	594.4	580.7	566.8	550.2	536.3	522.6	517.1	511.5	514.3
56°	566.8	566.8	564.0	553.0	536.3	522.6	505.9	492.1	483.9	486.6	486.6
57°	544.7	539.1	539.1	525.3	511.5	492.1	478.4	464.5	459.0	456.2	456.2
58°	517.1	514.3	511.5	497.6	483.9	467.2	453.4	439.7	431.3	431.3	428.5
59°	489.4	489.4	483.9	472.9	459.0	442.4	428.5	414.7	406.5	403.7	403.7
60°	464.5	467.2	459.0	447.9	436.8	417.5	400.9	389.8	381.6	378.8	378.8
61°	442.4	442.4	436.8	423.0	409.2	395.3	378.8	364.9	359.4	353.9	353.9
62°	423.0	417.5	414.7	400.9	387.1	370.5	356.6	342.9	334.6	329.0	331.7
63°	398.1	395.3	389.8	378.8	364.9	348.4	331.7	320.7	312.4	304.2	306.9
64°	378.8	376.1	367.8	356.6	342.9	326.2	309.7	298.7	293.0	284.8	282.0
65°	353.9	351.1	348.4	334.6	320.7	304.2	290.3	279.3	271.0	265.5	259.8
66°	331.7	334.6	329.0	317.9	301.4	287.5	268.2	257.1	251.6	243.3	237.8
67°	312.4	312.4	306.9	295.8	279.3	265.5	251.6	237.8	229.5	221.2	218.4
67.5°	301.4	301.4	295.8	282.0	271.0	254.3	240.6	229.5	218.4	212.9	207.4
68°	290.3	290.3	287.5	276.5	262.7	246.1	232.3	218.4	207.4	199.1	196.4
69°	271.0	273.7	268.2	257.1	243.3	226.7	212.9	201.9	190.7	182.5	176.9
70°	254.3	251.6	246.1	235.0	221.2	210.1	196.4	182.5	171.4	160.4	157.7
71°	232.3	232.3	226.7	218.4	204.6	190.7	176.9	165.9	154.8	141.0	138.2
72°	215.6	215.6	210.1	199.1	188.0	174.2	160.4	146.5	138.2	124.5	118.8
72.5°	204.6	207.4	201.9	190.7	179.7	163.2	152.0	141.0	127.2	116.1	110.6
73°	199.1	196.4	193.6	182.5	168.7	157.7	143.8	132.7	118.8	107.8	102.3



TEST NUMBER: P584413
 CATALOG NUMBER: HCC8W35D010MW-HM82555835-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	124.5	124.5	121.6	110.6	99.6	88.5	77.4	66.4	55.3	44.2	38.7
80°	85.7	88.5	82.9	77.4	69.1	58.1	47.0	38.7	27.7	22.2	16.5
82.5°	55.3	55.3	52.6	47.0	41.5	33.2	27.7	19.4	13.8	11.0	8.3
85°	27.7	30.4	27.7	24.9	19.4	16.5	13.8	8.3	5.5	2.8	2.8
87.5°	11.0	11.0	11.0	8.3	8.3	5.5	2.8	2.8	2.8	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: P584413

CATALOG NUMBER: HCC8W35D010MW-HM82555835-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2040.4	2040.4	2040.4	2040.4	2040.4	2040.4	2040.4	2040.4	2040.4	2040.4
2.5°	2032.2	2032.2	2026.7	2023.9	2021.1	2018.4	2015.6	2012.8	2012.8	2015.6
5°	2015.6	2010.0	1999.0	1996.2	1988.0	1985.2	1979.7	1976.8	1979.7	1976.8
7.5°	1990.7	1979.7	1965.8	1960.3	1949.3	1943.8	1935.4	1935.4	1929.9	1932.6
10°	1957.5	1940.9	1924.3	1913.3	1904.9	1896.7	1891.2	1885.7	1882.9	1882.9
12.5°	1916.1	1896.7	1880.1	1863.5	1849.7	1844.2	1833.1	1833.1	1827.5	1824.8
15°	1869.0	1844.2	1824.8	1808.3	1797.1	1786.1	1777.8	1772.3	1766.7	1766.7
17.5°	1808.3	1786.1	1766.7	1747.4	1730.8	1722.5	1714.2	1706.0	1706.0	1700.4
20°	1741.9	1717.0	1700.4	1681.0	1667.3	1653.4	1642.3	1642.3	1636.8	1639.6
22.5°	1667.3	1636.8	1620.2	1606.4	1592.5	1581.5	1570.5	1570.5	1567.7	1564.9
25°	1584.2	1559.4	1540.0	1523.5	1515.1	1504.1	1501.3	1495.8	1493.1	1493.1
27.5°	1495.8	1476.4	1451.5	1443.2	1432.2	1426.7	1426.7	1423.9	1418.4	1421.2
30°	1401.8	1379.6	1365.8	1360.3	1349.3	1349.3	1346.4	1340.9	1340.9	1343.7
32.5°	1310.5	1288.4	1277.3	1274.6	1263.5	1263.5	1260.8	1263.5	1263.5	1266.3
35°	1211.1	1191.7	1188.9	1180.6	1177.9	1177.9	1177.9	1183.4	1188.9	1180.6
37.5°	1117.0	1103.2	1094.9	1092.1	1094.9	1094.9	1097.6	1106.0	1103.2	1100.4
40°	1020.2	1009.2	1003.7	1003.7	1009.2	1014.7	1014.7	1023.0	1025.7	1023.0
42.5°	923.4	915.2	915.2	917.9	923.4	926.2	934.6	942.8	945.6	948.3
45°	832.3	832.3	832.3	835.0	837.8	843.3	854.3	862.7	865.4	868.2
47.5°	743.7	741.0	749.2	752.0	760.4	763.1	771.4	782.4	785.2	788.0
50°	660.8	666.3	669.1	677.3	683.0	683.0	694.0	699.5	707.8	707.8
52.5°	583.4	591.7	594.4	602.7	605.5	608.2	613.9	622.1	627.6	627.6
55°	514.3	517.1	522.6	525.3	533.6	536.3	541.9	544.7	553.0	550.2
56°	483.9	489.4	492.1	497.6	503.2	505.9	511.5	514.3	519.8	522.6
57°	456.2	459.0	467.2	470.0	475.6	475.6	478.4	486.6	486.6	489.4
58°	428.5	434.0	436.8	439.7	445.2	447.9	453.4	456.2	459.0	456.2
59°	403.7	406.5	409.2	409.2	414.7	414.7	423.0	428.5	431.3	431.3
60°	378.8	378.8	381.6	384.3	389.8	392.6	392.6	398.1	398.1	398.1
61°	353.9	353.9	356.6	359.4	362.2	362.2	367.8	367.8	370.5	373.3
62°	331.7	329.0	329.0	331.7	331.7	337.4	340.1	342.9	345.6	342.9
63°	306.9	304.2	304.2	304.2	304.2	309.7	309.7	312.4	317.9	315.2
64°	279.3	279.3	279.3	279.3	282.0	282.0	287.5	290.3	293.0	295.8
65°	259.8	254.3	251.6	251.6	254.3	257.1	259.8	262.7	265.5	265.5
66°	237.8	232.3	229.5	229.5	229.5	229.5	235.0	235.0	240.6	240.6
67°	212.9	207.4	204.6	201.9	201.9	201.9	210.1	207.4	207.4	207.4
67.5°	204.6	196.4	193.6	190.7	188.0	193.6	190.7	193.6	193.6	190.7
68°	193.6	188.0	182.5	176.9	176.9	176.9	179.7	182.5	179.7	176.9
69°	171.4	168.7	160.4	154.8	152.0	154.8	152.0	154.8	152.0	154.8
70°	152.0	143.8	135.5	132.7	130.0	130.0	130.0	127.2	130.0	127.2
71°	132.7	124.5	116.1	110.6	107.8	107.8	105.1	107.8	105.1	107.8
72°	113.3	105.1	94.0	88.5	88.5	88.5	88.5	85.7	88.5	85.7
72.5°	105.1	94.0	85.7	80.1	77.4	77.4	77.4	77.4	74.6	77.4
73°	96.8	85.7	74.6	71.9	71.9	71.9	69.1	66.4	69.1	69.1



TEST NUMBER: P584413
CATALOG NUMBER: HCC8W35D010MW-HM82555835-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	33.2	24.9	22.2	22.2	22.2	22.2	22.2	22.2	19.4	19.4
80°	13.8	11.0	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
82.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
85°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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°	179.7	179.7	174.2	165.9	152.0	138.2	127.2	116.1	102.3	88.5	82.9
75°	165.9	163.2	157.7	149.3	138.2	124.5	113.3	99.6	88.5	74.6	69.1

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°	80.1	66.4	60.9	55.3	55.3	55.3	52.6	52.6	52.6	55.3
75°	63.6	52.6	47.0	41.5	44.2	41.5	44.2	41.5	41.5	41.5

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

Scaled Data Report



(END OF REPORT)