

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: P584396

Luminaire Tested: **HCC8W35D010MW-HM82555830-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584396
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-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: 3608.6 lumens
Efficiency: N/A
Efficacy: 107.1 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

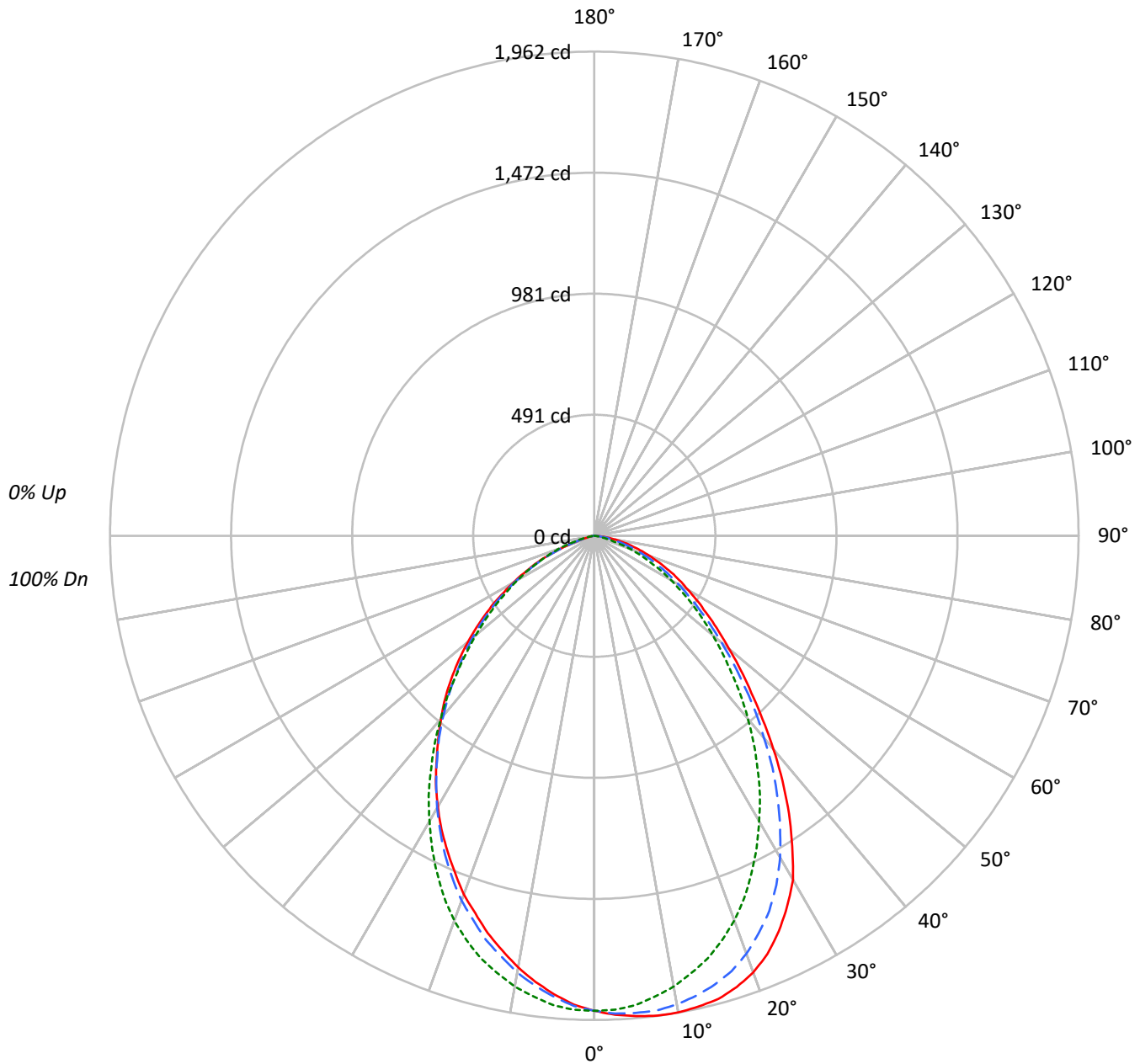
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584396

CATALOG NUMBER: HCC8W35D010MW-HM82555830-81RWWH

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P584396

CATALOG NUMBER: HCC8W35D010MW-HM82555830-81RWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	59357	59357	59357
5°	60472	59101	57726
10°	61419	58068	55620
15°	62035	56621	53208
20°	61801	54437	50755
25°	60172	51295	47923
30°	57302	47549	45135
35°	51746	43396	41928
40°	45463	38950	38849
45°	39239	34233	35716
50°	34161	30031	32036
55°	30289	26085	27908
60°	27025	22042	23164
65°	24363	17891	18270
70°	21638	13407	10819
75°	18646	7768	4670
80°	14366	2788	1385
85°	9234	920	920



TEST NUMBER: P584396

CATALOG NUMBER: HCC8W35D010MW-HM82555830-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.7	5.0
10°-20°	503.0	13.9
20°-30°	711.5	19.7
30°-40°	749.7	20.8
40°-50°	637.2	17.7
50°-60°	458.8	12.7
60°-70°	264.7	7.3
70°-80°	90.6	2.5
80°-90°	12.5	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°	1395.2	38.7
0°-40°	2145.0	59.4
0°-60°	3241.0	89.8
0°-90°	3608.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3608.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1925	1925	1925	1925	1925	
5°	1954	1941	1909	1875	1865	187
15°	1943	1883	1774	1695	1667	547
25°	1768	1677	1508	1429	1408	811
35°	1375	1294	1153	1111	1114	856
45°	900	858	785	790	819	699
55°	563	519	485	503	519	507
65°	334	287	245	240	250	332
75°	156	117	65	42	39	165
85°	26	16	3	3	3	35
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P584396

CATALOG NUMBER: HCC8W35D010MW-HM82555830-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9
2.5°	1943.2	1945.8	1943.2	1943.2	1940.6	1938.0	1935.4	1932.7	1927.6	1922.3	1922.3
5°	1953.6	1958.8	1953.6	1953.6	1945.8	1940.6	1935.4	1927.6	1917.2	1909.3	1909.3
7.5°	1961.5	1961.5	1961.5	1953.6	1948.4	1940.6	1927.6	1914.5	1901.5	1888.4	1883.3
10°	1961.5	1961.5	1958.8	1948.4	1943.2	1927.6	1914.5	1896.2	1878.0	1859.8	1854.5
12.5°	1953.6	1956.2	1951.1	1940.6	1927.6	1909.3	1891.0	1867.6	1846.7	1825.9	1815.3
15°	1943.2	1940.6	1935.4	1922.3	1906.7	1883.3	1864.9	1838.8	1810.2	1784.1	1773.6
17.5°	1917.2	1917.2	1909.3	1896.2	1875.3	1849.4	1820.6	1792.0	1760.6	1731.9	1718.9
20°	1883.3	1883.3	1872.7	1857.1	1836.3	1802.4	1771.0	1737.1	1700.6	1671.9	1658.9
22.5°	1833.7	1836.3	1823.2	1804.9	1781.4	1742.4	1711.1	1669.3	1632.8	1598.9	1588.4
25°	1768.5	1773.6	1760.6	1742.4	1711.1	1677.2	1638.0	1598.9	1557.2	1523.3	1507.6
27.5°	1692.8	1695.4	1682.4	1664.1	1632.8	1596.3	1557.2	1515.5	1476.3	1439.8	1424.2
30°	1609.3	1598.9	1593.7	1570.2	1536.3	1505.0	1460.6	1426.7	1385.0	1353.7	1335.4
32.5°	1492.0	1497.1	1481.6	1463.2	1437.1	1400.7	1364.2	1325.0	1285.9	1262.5	1249.4
35°	1374.6	1379.9	1371.9	1353.7	1325.0	1293.7	1257.2	1228.5	1194.6	1165.9	1152.8
37.5°	1252.0	1252.0	1246.8	1236.3	1215.5	1186.7	1150.3	1121.6	1092.9	1069.5	1061.5
40°	1129.4	1124.2	1121.6	1113.8	1095.5	1069.5	1046.0	1022.5	993.7	978.2	967.6
42.5°	1009.4	1009.4	1004.2	996.4	978.2	965.1	941.6	915.5	894.7	879.0	879.0
45°	899.8	902.5	894.7	889.4	879.0	858.1	837.3	819.0	800.7	790.3	785.0
47.5°	803.4	803.4	795.6	790.3	779.9	761.6	743.4	727.7	714.7	706.8	704.3
50°	712.1	712.1	712.1	699.0	686.0	672.9	659.9	641.6	633.9	628.6	626.0
52.5°	633.9	631.2	631.2	620.8	607.7	592.1	579.0	563.4	555.5	550.4	553.0
55°	563.4	563.4	560.8	547.7	534.7	519.1	506.0	493.0	487.7	482.6	485.2
56°	534.7	534.7	532.2	521.6	506.0	493.0	477.3	464.2	456.4	459.1	459.1
57°	513.8	508.7	508.7	495.6	482.6	464.2	451.3	438.2	433.0	430.3	430.3
58°	487.7	485.2	482.6	469.5	456.4	440.9	427.8	414.7	406.8	406.8	404.3
59°	461.7	461.7	456.4	446.0	433.0	417.4	404.3	391.3	383.5	380.8	380.8
60°	438.2	440.9	433.0	422.5	412.1	393.9	378.2	367.8	360.0	357.4	357.4
61°	417.4	417.4	412.1	399.1	386.0	372.9	357.4	344.3	339.0	333.9	333.9
62°	399.1	393.9	391.3	378.2	365.2	349.5	336.5	323.5	315.6	310.4	313.0
63°	375.6	372.9	367.8	357.4	344.3	328.6	313.0	302.6	294.7	286.9	289.6
64°	357.4	354.7	346.9	336.5	323.5	307.8	292.1	281.6	276.5	268.7	266.1
65°	333.9	331.2	328.6	315.6	302.6	286.9	273.9	263.4	255.7	250.4	245.2
66°	313.0	315.6	310.4	300.0	284.3	271.2	253.0	242.6	237.3	229.5	224.3
67°	294.7	294.7	289.6	279.1	263.4	250.4	237.3	224.3	216.5	208.7	206.1
67.5°	284.3	284.3	279.1	266.1	255.7	240.0	226.9	216.5	206.1	200.8	195.6
68°	273.9	273.9	271.2	260.8	247.7	232.2	219.1	206.1	195.6	187.8	185.2
69°	255.7	258.2	253.0	242.6	229.5	213.8	200.8	190.4	179.9	172.2	166.9
70°	240.0	237.3	232.2	221.7	208.7	198.3	185.2	172.2	161.7	151.3	148.7
71°	219.1	219.1	213.8	206.1	193.0	179.9	166.9	156.5	146.0	133.0	130.5
72°	203.4	203.4	198.3	187.8	177.4	164.4	151.3	138.2	130.5	117.4	112.1
72.5°	193.0	195.6	190.4	179.9	169.5	153.9	143.4	133.0	120.0	109.5	104.3
73°	187.8	185.2	182.6	172.2	159.1	148.7	135.6	125.2	112.1	101.7	96.6

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P584396

CATALOG NUMBER: HCC8W35D010MW-HM82555830-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	117.4	117.4	114.8	104.3	93.9	83.5	73.1	62.7	52.1	41.7	36.5
80°	80.9	83.5	78.2	73.1	65.2	54.7	44.3	36.5	26.1	20.8	15.7
82.5°	52.1	52.1	49.6	44.3	39.2	31.3	26.1	18.2	13.1	10.4	7.8
85°	26.1	28.6	26.1	23.5	18.2	15.7	13.1	7.8	5.3	2.6	2.6
87.5°	10.4	10.4	10.4	7.8	7.8	5.3	2.6	2.6	2.6	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

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P584396

CATALOG NUMBER: HCC8W35D010MW-HM82555830-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9
2.5°	1917.2	1917.2	1911.9	1909.3	1906.7	1904.1	1901.5	1898.8	1898.8	1901.5
5°	1901.5	1896.2	1885.8	1883.3	1875.3	1872.7	1867.6	1864.9	1867.6	1864.9
7.5°	1878.0	1867.6	1854.5	1849.4	1838.8	1833.7	1825.9	1825.9	1820.6	1823.2
10°	1846.7	1831.0	1815.3	1804.9	1797.1	1789.3	1784.1	1778.9	1776.3	1776.3
12.5°	1807.5	1789.3	1773.6	1757.9	1745.0	1739.7	1729.3	1729.3	1724.0	1721.5
15°	1763.2	1739.7	1721.5	1705.8	1695.4	1685.0	1677.2	1671.9	1666.7	1666.7
17.5°	1705.8	1685.0	1666.7	1648.4	1632.8	1625.0	1617.2	1609.3	1609.3	1604.1
20°	1643.3	1619.8	1604.1	1585.9	1572.9	1559.8	1549.4	1549.4	1544.1	1546.7
22.5°	1572.9	1544.1	1528.5	1515.5	1502.4	1492.0	1481.6	1481.6	1478.9	1476.3
25°	1494.5	1471.1	1452.8	1437.1	1429.3	1418.9	1416.3	1411.1	1408.5	1408.5
27.5°	1411.1	1392.8	1369.3	1361.5	1351.1	1345.8	1345.8	1343.3	1338.0	1340.7
30°	1322.5	1301.5	1288.4	1283.3	1272.9	1272.9	1270.2	1265.1	1265.1	1267.6
32.5°	1236.3	1215.5	1205.1	1202.4	1192.0	1192.0	1189.4	1192.0	1192.0	1194.6
35°	1142.4	1124.2	1121.6	1113.8	1111.1	1111.1	1111.1	1116.4	1121.6	1113.8
37.5°	1053.8	1040.7	1032.9	1030.3	1032.9	1032.9	1035.6	1043.3	1040.7	1038.1
40°	962.5	952.1	946.8	946.8	952.1	957.2	957.2	965.1	967.6	965.1
42.5°	871.2	863.4	863.4	865.9	871.2	873.8	881.6	889.4	892.0	894.7
45°	785.0	785.0	785.0	787.7	790.3	795.6	806.0	813.8	816.4	819.0
47.5°	701.7	699.0	706.8	709.5	717.2	719.9	727.7	738.2	740.7	743.4
50°	623.4	628.6	631.2	639.0	644.3	644.3	654.7	659.9	667.8	667.8
52.5°	550.4	558.1	560.8	568.6	571.2	573.8	579.0	586.9	592.1	592.1
55°	485.2	487.7	493.0	495.6	503.4	506.0	511.2	513.8	521.6	519.1
56°	456.4	461.7	464.2	469.5	474.8	477.3	482.6	485.2	490.3	493.0
57°	430.3	433.0	440.9	443.4	448.7	448.7	451.3	459.1	459.1	461.7
58°	404.3	409.5	412.1	414.7	419.9	422.5	427.8	430.3	433.0	430.3
59°	380.8	383.5	386.0	386.0	391.3	391.3	399.1	404.3	406.8	406.8
60°	357.4	357.4	360.0	362.5	367.8	370.4	370.4	375.6	375.6	375.6
61°	333.9	333.9	336.5	339.0	341.7	341.7	346.9	346.9	349.5	352.1
62°	313.0	310.4	310.4	313.0	313.0	318.2	320.8	323.5	326.1	323.5
63°	289.6	286.9	286.9	286.9	286.9	292.1	292.1	294.7	300.0	297.3
64°	263.4	263.4	263.4	263.4	266.1	266.1	271.2	273.9	276.5	279.1
65°	245.2	240.0	237.3	237.3	240.0	242.6	245.2	247.7	250.4	250.4
66°	224.3	219.1	216.5	216.5	216.5	216.5	221.7	221.7	226.9	226.9
67°	200.8	195.6	193.0	190.4	190.4	190.4	198.3	195.6	195.6	195.6
67.5°	193.0	185.2	182.6	179.9	177.4	182.6	179.9	182.6	182.6	179.9
68°	182.6	177.4	172.2	166.9	166.9	166.9	169.5	172.2	169.5	166.9
69°	161.7	159.1	151.3	146.0	143.4	146.0	143.4	146.0	143.4	146.0
70°	143.4	135.6	127.8	125.2	122.6	122.6	122.6	120.0	122.6	120.0
71°	125.2	117.4	109.5	104.3	101.7	101.7	99.1	101.7	99.1	101.7
72°	107.0	99.1	88.7	83.5	83.5	83.5	83.5	80.9	83.5	80.9
72.5°	99.1	88.7	80.9	75.6	73.1	73.1	73.1	73.1	70.4	73.1
73°	91.3	80.9	70.4	67.8	67.8	67.8	65.2	62.7	65.2	65.2



TEST NUMBER: P584396

CATALOG NUMBER: HCC8W35D010MW-HM82555830-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	31.3	23.5	20.8	20.8	20.8	20.8	20.8	20.8	18.2	18.2
80°	13.1	10.4	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
82.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
85°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

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



— 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





74°	169.5	164.4	156.5	143.4	130.5	120.0	109.5	96.6	83.5	78.2
75°	153.9	148.7	140.9	130.5	117.4	107.0	93.9	83.5	70.4	65.2

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report





74°	75.6	62.7	57.4	52.1	52.1	52.1	49.6	49.6	49.6	52.1
75°	60.0	49.6	44.3	39.2	41.7	39.2	41.7	39.2	39.2	39.2

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)