

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: P585127

Luminaire Tested: **HCC8W60D010BZ-HM86080927-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585127
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: HCC8W60D010BZ-HM86080927-81RWWH
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

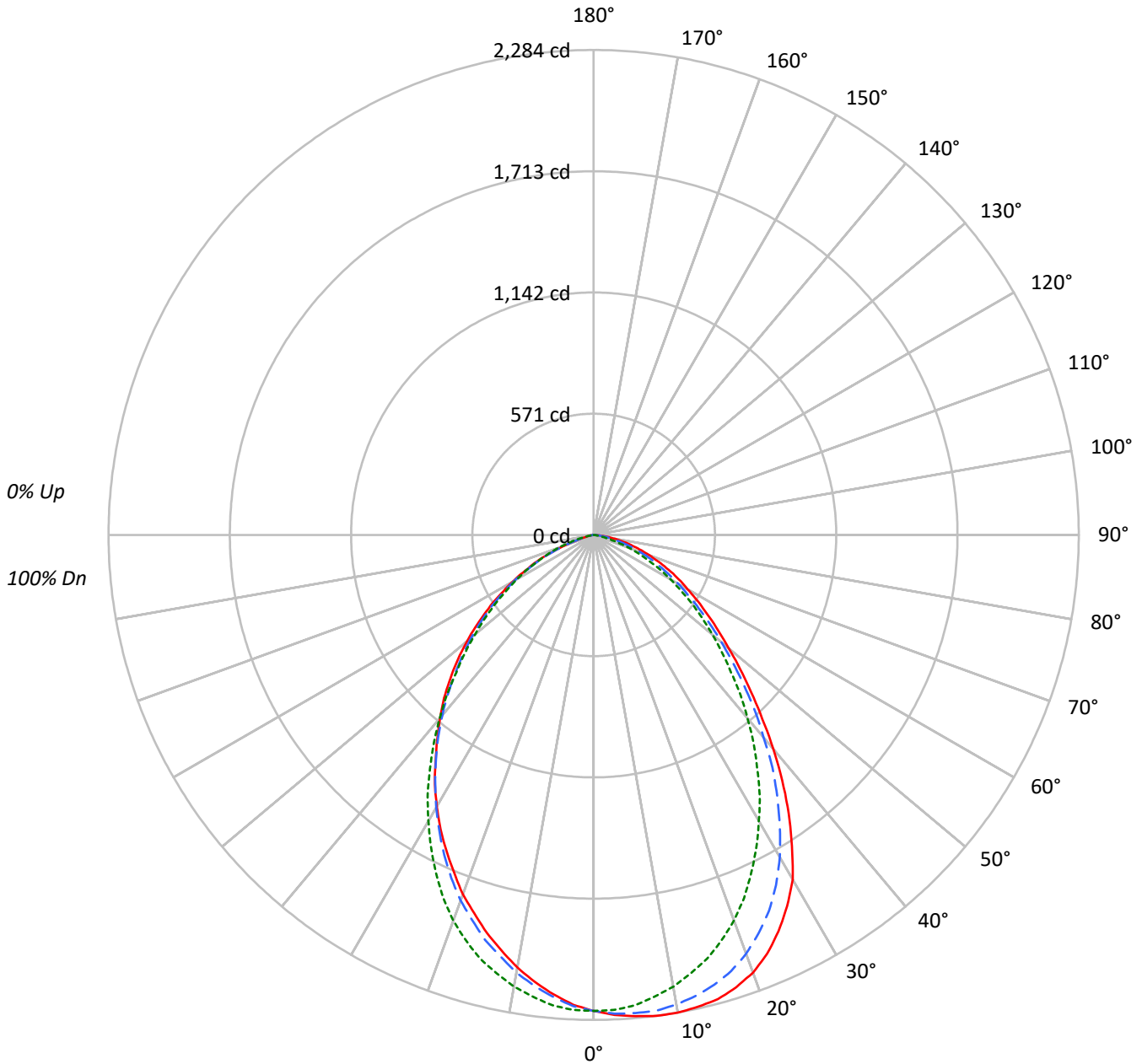
Lumens per Lamp: N/A
Luminaire Lumens: 4202.8 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 56
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: P585127
CATALOG NUMBER: HCC8W60D010BZ-HM86080927-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P585127

CATALOG NUMBER: HCC8W60D010BZ-HM86080927-81RWWH

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°	69132	69132	69132
5°	70430	68830	67232
10°	71529	67631	64775
15°	72251	65946	61971
20°	71974	63402	59114
25°	70076	59740	55813
30°	66738	55383	52570
35°	60265	50545	48828
40°	52946	45366	45245
45°	45707	39876	41599
50°	39784	34977	37304
55°	35278	30381	32499
60°	31478	25662	26982
65°	28369	20839	21277
70°	25200	15607	12604
75°	21708	9043	5433
80°	16710	3232	1616
85°	10720	1061	1061



TEST NUMBER: P585127
 CATALOG NUMBER: HCC8W60D010BZ-HM86080927-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.5	5.0
10°-20°	585.9	13.9
20°-30°	828.6	19.7
30°-40°	873.2	20.8
40°-50°	742.1	17.7
50°-60°	534.4	12.7
60°-70°	308.3	7.3
70°-80°	105.5	2.5
80°-90°	14.5	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°	1625.0	38.7
0°-40°	2498.1	59.4
0°-60°	3774.6	89.8
0°-90°	4202.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4202.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2242	2242	2242	2242	2242	
5°	2275	2260	2224	2184	2172	217
15°	2263	2193	2066	1975	1941	637
25°	2060	1953	1756	1665	1640	945
35°	1601	1507	1343	1294	1297	997
45°	1048	999	914	920	954	814
55°	656	604	565	586	604	590
65°	389	334	286	280	292	387
75°	182	137	76	49	46	192
85°	30	18	3	3	3	41
90°	0	0	0	0	0	



TEST NUMBER: P585127

CATALOG NUMBER: HCC8W60D010BZ-HM86080927-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2241.9	2241.9	2241.9	2241.9	2241.9	2241.9	2241.9	2241.9	2241.9	2241.9	2241.9
2.5°	2263.2	2266.2	2263.2	2263.2	2260.1	2257.1	2254.1	2251.0	2245.0	2238.9	2238.9
5°	2275.3	2281.4	2275.3	2275.3	2266.2	2260.1	2254.1	2245.0	2232.8	2223.6	2223.6
7.5°	2284.4	2284.4	2284.4	2275.3	2269.2	2260.1	2245.0	2229.8	2214.5	2199.4	2193.3
10°	2284.4	2284.4	2281.4	2269.2	2263.2	2245.0	2229.8	2208.5	2187.2	2166.0	2159.9
12.5°	2275.3	2278.3	2272.3	2260.1	2245.0	2223.6	2202.4	2175.1	2150.7	2126.4	2114.3
15°	2263.2	2260.1	2254.1	2238.9	2220.6	2193.3	2172.0	2141.6	2108.2	2077.9	2065.7
17.5°	2232.8	2232.8	2223.6	2208.5	2184.2	2153.7	2120.4	2087.0	2050.5	2017.1	2002.0
20°	2193.3	2193.3	2181.2	2162.9	2138.6	2099.1	2062.6	2023.2	1980.6	1947.2	1932.1
22.5°	2135.5	2138.6	2123.4	2102.2	2074.9	2029.3	1992.8	1944.2	1901.6	1862.2	1850.1
25°	2059.6	2065.7	2050.5	2029.3	1992.8	1953.3	1907.7	1862.2	1813.6	1774.0	1755.8
27.5°	1971.5	1974.6	1959.4	1938.1	1901.6	1859.2	1813.6	1764.9	1719.4	1676.8	1658.6
30°	1874.3	1862.2	1856.1	1828.7	1789.3	1752.8	1701.1	1661.7	1613.0	1576.6	1555.4
32.5°	1737.6	1743.7	1725.5	1704.1	1673.8	1631.3	1588.8	1543.2	1497.7	1470.2	1455.1
35°	1600.9	1607.0	1597.9	1576.6	1543.2	1506.8	1464.2	1430.8	1391.3	1357.9	1342.7
37.5°	1458.1	1458.1	1452.0	1439.9	1415.6	1382.2	1339.7	1306.2	1272.9	1245.4	1236.3
40°	1315.3	1309.3	1306.2	1297.1	1275.9	1245.4	1218.1	1190.8	1157.4	1139.2	1127.0
42.5°	1175.7	1175.7	1169.5	1160.4	1139.2	1124.0	1096.7	1066.3	1042.0	1023.8	1023.8
45°	1048.1	1051.1	1042.0	1035.9	1023.8	999.4	975.1	953.9	932.6	920.4	914.4
47.5°	935.6	935.6	926.5	920.4	908.3	887.1	865.7	847.5	832.4	823.3	820.2
50°	829.3	829.3	829.3	814.2	799.0	783.7	768.5	747.3	738.2	732.1	729.1
52.5°	738.2	735.2	735.2	723.0	707.8	689.6	674.4	656.2	647.1	640.9	644.1
55°	656.2	656.2	653.2	637.9	622.7	604.5	589.4	574.2	568.0	561.9	565.1
56°	622.7	622.7	619.7	607.6	589.4	574.2	555.9	540.7	531.6	534.6	534.6
57°	598.5	592.4	592.4	577.2	561.9	540.7	525.5	510.4	504.3	501.3	501.3
58°	568.0	565.1	561.9	546.8	531.6	513.4	498.2	483.0	473.9	473.9	470.8
59°	537.7	537.7	531.6	519.5	504.3	486.0	470.8	455.7	446.6	443.5	443.5
60°	510.4	513.4	504.3	492.2	479.9	458.7	440.5	428.4	419.3	416.1	416.1
61°	486.0	486.0	479.9	464.8	449.6	434.4	416.1	401.0	394.9	388.8	388.8
62°	464.8	458.7	455.7	440.5	425.3	407.0	391.9	376.7	367.6	361.5	364.6
63°	437.5	434.4	428.4	416.1	401.0	382.8	364.6	352.4	343.3	334.1	337.1
64°	416.1	413.1	404.0	391.9	376.7	358.5	340.3	328.0	322.0	312.9	309.8
65°	388.8	385.8	382.8	367.6	352.4	334.1	318.9	306.8	297.7	291.6	285.6
66°	364.6	367.6	361.5	349.4	331.1	315.9	294.7	282.5	276.5	267.4	261.2
67°	343.3	343.3	337.1	325.0	306.8	291.6	276.5	261.2	252.1	243.0	240.0
67.5°	331.1	331.1	325.0	309.8	297.7	279.5	264.2	252.1	240.0	233.9	227.8
68°	318.9	318.9	315.9	303.8	288.6	270.4	255.1	240.0	227.8	218.7	215.7
69°	297.7	300.7	294.7	282.5	267.4	249.1	233.9	221.8	209.6	200.5	194.5
70°	279.5	276.5	270.4	258.2	243.0	230.9	215.7	200.5	188.4	176.2	173.1
71°	255.1	255.1	249.1	240.0	224.8	209.6	194.5	182.2	170.1	154.9	151.9
72°	236.9	236.9	230.9	218.7	206.6	191.3	176.2	161.0	151.9	136.7	130.7
72.5°	224.8	227.8	221.8	209.6	197.5	179.2	167.1	154.9	139.8	127.6	121.6
73°	218.7	215.7	212.7	200.5	185.4	173.1	158.0	145.8	130.7	118.5	112.3



TEST NUMBER: P585127
 CATALOG NUMBER: HCC8W60D010BZ-HM86080927-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	<i>136.7</i>	136.7	133.7	121.6	109.3	97.2	85.0	72.9	60.8	48.6	42.6
80°	<i>94.1</i>	97.2	91.1	85.0	75.9	63.8	51.7	42.6	30.3	24.3	18.2
82.5°	<i>60.8</i>	60.8	57.7	51.7	45.6	36.4	30.3	21.2	15.2	12.1	9.1
85°	<i>30.3</i>	33.4	30.3	27.3	21.2	18.2	15.2	9.1	6.1	3.0	3.0
87.5°	<i>12.1</i>	12.1	12.1	9.1	9.1	6.1	3.0	3.0	3.0	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: P585127

CATALOG NUMBER: HCC8W60D010BZ-HM86080927-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2241.9	2241.9	2241.9	2241.9	2241.9	2241.9	2241.9	2241.9	2241.9	2241.9
2.5°	2232.8	2232.8	2226.8	2223.6	2220.6	2217.6	2214.5	2211.5	2211.5	2214.5
5°	2214.5	2208.5	2196.3	2193.3	2184.2	2181.2	2175.1	2172.0	2175.1	2172.0
7.5°	2187.2	2175.1	2159.9	2153.7	2141.6	2135.5	2126.4	2126.4	2120.4	2123.4
10°	2150.7	2132.5	2114.3	2102.2	2093.1	2084.0	2077.9	2071.7	2068.7	2068.7
12.5°	2105.2	2084.0	2065.7	2047.5	2032.3	2026.2	2014.1	2014.1	2008.0	2005.0
15°	2053.5	2026.2	2005.0	1986.7	1974.6	1962.4	1953.3	1947.2	1941.2	1941.2
17.5°	1986.7	1962.4	1941.2	1919.8	1901.6	1892.5	1883.4	1874.3	1874.3	1868.3
20°	1913.8	1886.5	1868.3	1846.9	1831.8	1816.6	1804.5	1804.5	1798.4	1801.4
22.5°	1831.8	1798.4	1780.2	1764.9	1749.8	1737.6	1725.5	1725.5	1722.5	1719.4
25°	1740.7	1713.3	1692.0	1673.8	1664.7	1652.6	1649.5	1643.5	1640.4	1640.4
27.5°	1643.5	1622.1	1594.8	1585.7	1573.6	1567.5	1567.5	1564.5	1558.4	1561.5
30°	1540.1	1515.9	1500.7	1494.6	1482.5	1482.5	1479.4	1473.4	1473.4	1476.4
32.5°	1439.9	1415.6	1403.5	1400.5	1388.2	1388.2	1385.2	1388.2	1388.2	1391.3
35°	1330.6	1309.3	1306.2	1297.1	1294.1	1294.1	1294.1	1300.2	1306.2	1297.1
37.5°	1227.2	1212.1	1203.0	1199.9	1203.0	1203.0	1206.0	1215.1	1212.1	1209.0
40°	1121.0	1108.8	1102.8	1102.8	1108.8	1114.9	1114.9	1124.0	1127.0	1124.0
42.5°	1014.6	1005.5	1005.5	1008.5	1014.6	1017.6	1026.8	1035.9	1039.0	1042.0
45°	914.4	914.4	914.4	917.4	920.4	926.5	938.6	947.7	950.9	953.9
47.5°	817.2	814.2	823.3	826.3	835.4	838.4	847.5	859.7	862.7	865.7
50°	726.1	732.1	735.2	744.3	750.3	750.3	762.5	768.5	777.6	777.6
52.5°	640.9	650.1	653.2	662.3	665.3	668.3	674.4	683.5	689.6	689.6
55°	565.1	568.0	574.2	577.2	586.3	589.4	595.4	598.5	607.6	604.5
56°	531.6	537.7	540.7	546.8	552.8	555.9	561.9	565.1	571.0	574.2
57°	501.3	504.3	513.4	516.4	522.5	522.5	525.5	534.6	534.6	537.7
58°	470.8	476.9	479.9	483.0	489.0	492.2	498.2	501.3	504.3	501.3
59°	443.5	446.6	449.6	449.6	455.7	455.7	464.8	470.8	473.9	473.9
60°	416.1	416.1	419.3	422.3	428.4	431.4	431.4	437.5	437.5	437.5
61°	388.8	388.8	391.9	394.9	397.9	397.9	404.0	404.0	407.0	410.1
62°	364.6	361.5	361.5	364.6	364.6	370.6	373.7	376.7	379.7	376.7
63°	337.1	334.1	334.1	334.1	334.1	340.3	340.3	343.3	349.4	346.4
64°	306.8	306.8	306.8	306.8	309.8	309.8	315.9	318.9	322.0	325.0
65°	285.6	279.5	276.5	276.5	279.5	282.5	285.6	288.6	291.6	291.6
66°	261.2	255.1	252.1	252.1	252.1	252.1	258.2	258.2	264.2	264.2
67°	233.9	227.8	224.8	221.8	221.8	221.8	230.9	227.8	227.8	227.8
67.5°	224.8	215.7	212.7	209.6	206.6	212.7	209.6	212.7	212.7	209.6
68°	212.7	206.6	200.5	194.5	194.5	194.5	197.5	200.5	197.5	194.5
69°	188.4	185.4	176.2	170.1	167.1	170.1	167.1	170.1	167.1	170.1
70°	167.1	158.0	148.9	145.8	142.8	142.8	142.8	139.8	142.8	139.8
71°	145.8	136.7	127.6	121.6	118.5	118.5	115.5	118.5	115.5	118.5
72°	124.6	115.5	103.2	97.2	97.2	97.2	97.2	94.1	97.2	94.1
72.5°	115.5	103.2	94.1	88.1	85.0	85.0	85.0	85.0	82.0	85.0
73°	106.3	94.1	82.0	79.0	79.0	79.0	75.9	72.9	75.9	75.9



TEST NUMBER: P585127

CATALOG NUMBER: HCC8W60D010BZ-HM86080927-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	36.4	27.3	24.3	24.3	24.3	24.3	24.3	24.3	21.2	21.2
80°	15.2	12.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
82.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
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
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



74°	197.5	197.5	191.3	182.2	167.1	151.9	139.8	127.6	112.3	97.2	91.1
75°	182.2	179.2	173.1	164.0	151.9	136.7	124.6	109.3	97.2	82.0	75.9

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°	88.1	72.9	66.8	60.8	60.8	60.8	57.7	57.7	57.7	60.8
75°	69.9	57.7	51.7	45.6	48.6	45.6	48.6	45.6	45.6	45.6

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

Scaled Data Report



(END OF REPORT)