

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: P584175

Luminaire Tested: **HCC8S25D010MB-HM82555927-81RWWH**

Issue Date: 10/21/2021

### Test Information

Test Method: LM-41-14  
 Report Number: P584175  
 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: HCC8S25D010MB-HM82555927-81RWWH  
 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

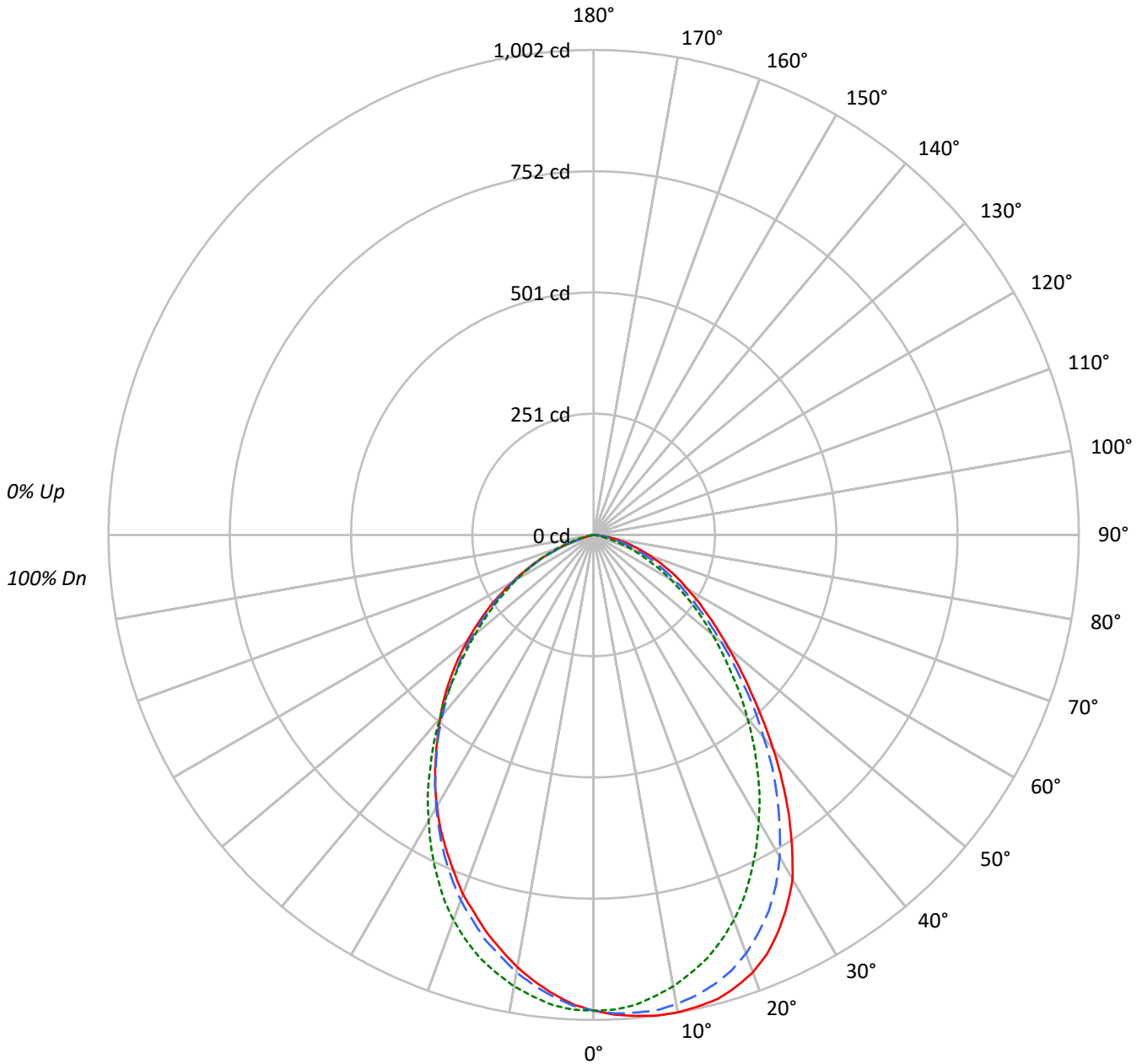
Lumens per Lamp: N/A  
 Luminaire Lumens: 1842.7 lumens  
 Efficiency: N/A  
 Efficacy: 68.8 lumens/watt  
 Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
 Luminous Opening: Circular (Dia: 0.67' x H: 0')  
 CIE Type: Direct

Input Watts (W): 26.8  
 Input Voltage (V): NR  
 Input Current (A<sub>in</sub>): 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: P584175  
CATALOG NUMBER: HCC8S25D010MB-HM82555927-81RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P584175

CATALOG NUMBER: HCC8S25D010MB-HM82555927-81RWWH

**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°	30309	30309	30309
5°	30880	30180	29478
10°	31362	29652	28400
15°	31678	28910	27171
20°	31555	27798	25918
25°	30727	26195	24474
30°	29262	24280	23052
35°	26422	22161	21408
40°	23214	19889	19837
45°	20038	17483	18242
50°	17443	15332	16359
55°	15467	13317	14247
60°	13796	11249	11823
65°	12441	9135	9332
70°	11045	6852	5527
75°	9519	3967	2383
80°	7334	1421	710
85°	4706	460	460



TEST NUMBER: P584175  
 CATALOG NUMBER: HCC8S25D010MB-HM82555927-81RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.3	5.0
10°-20°	256.9	13.9
20°-30°	363.3	19.7
30°-40°	382.8	20.8
40°-50°	325.4	17.7
50°-60°	234.3	12.7
60°-70°	135.2	7.3
70°-80°	46.2	2.5
80°-90°	6.4	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°	712.5	38.7
0°-40°	1095.3	59.4
0°-60°	1654.9	89.8
0°-90°	1842.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1842.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	983	983	983	983	983	
5°	998	991	975	958	952	95
15°	992	962	906	866	851	279
25°	903	856	770	730	719	414
35°	702	661	589	567	569	437
45°	460	438	401	404	418	357
55°	288	265	248	257	265	259
65°	170	146	125	122	128	170
75°	80	60	33	21	20	84
85°	13	8	1	1	1	18
90°	0	0	0	0	0	



TEST NUMBER: P584175

CATALOG NUMBER: HCC8S25D010MB-HM82555927-81RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9
2.5°	992.3	993.6	992.3	992.3	990.9	989.6	988.3	987.0	984.3	981.6	981.6
5°	997.6	1000.2	997.6	997.6	993.6	990.9	988.3	984.3	978.9	975.0	975.0
7.5°	1001.6	1001.6	1001.6	997.6	994.9	990.9	984.3	977.7	970.9	964.3	961.6
10°	1001.6	1001.6	1000.2	994.9	992.3	984.3	977.7	968.2	958.9	949.6	947.0
12.5°	997.6	999.0	996.3	990.9	984.3	975.0	965.7	953.7	943.0	932.3	927.0
15°	992.3	990.9	988.3	981.6	973.6	961.6	952.3	939.0	924.4	911.0	905.6
17.5°	978.9	978.9	975.0	968.2	957.6	944.3	929.6	915.1	899.0	884.4	877.7
20°	961.6	961.6	956.3	948.3	937.6	920.3	904.4	887.0	868.4	853.8	847.1
22.5°	936.4	937.6	931.0	921.7	909.7	889.7	873.8	852.5	833.7	816.4	811.2
25°	903.1	905.6	899.0	889.7	873.8	856.4	836.4	816.4	795.1	777.8	769.9
27.5°	864.5	865.7	859.1	849.8	833.7	815.1	795.1	773.8	753.8	735.2	727.2
30°	821.8	816.4	813.8	801.8	784.5	768.5	745.9	728.6	707.3	691.2	681.9
32.5°	761.8	764.5	756.5	747.2	733.9	715.2	696.6	676.6	656.7	644.7	637.9
35°	701.9	704.6	700.5	691.2	676.6	660.6	642.0	627.3	610.0	595.3	588.7
37.5°	639.3	639.3	636.7	631.3	620.7	606.0	587.3	572.7	558.1	546.1	542.1
40°	576.7	574.1	572.7	568.7	559.4	546.1	534.1	522.1	507.5	499.5	494.1
42.5°	515.4	515.4	512.7	508.8	499.5	492.8	480.9	467.5	456.9	448.9	448.9
45°	459.5	460.8	456.9	454.2	448.9	438.2	427.6	418.3	408.8	403.6	400.9
47.5°	410.2	410.2	406.3	403.6	398.3	388.9	379.6	371.6	365.0	360.9	359.6
50°	363.6	363.6	363.6	357.0	350.3	343.6	336.9	327.6	323.7	321.0	319.6
52.5°	323.7	322.3	322.3	317.0	310.3	302.4	295.6	287.7	283.7	281.0	282.4
55°	287.7	287.7	286.3	279.7	273.1	265.0	258.4	251.8	249.1	246.4	247.7
56°	273.1	273.1	271.7	266.4	258.4	251.8	243.7	237.1	233.0	234.4	234.4
57°	262.4	259.7	259.7	253.1	246.4	237.1	230.4	223.7	221.1	219.8	219.8
58°	249.1	247.7	246.4	239.8	233.0	225.1	218.4	211.8	207.8	207.8	206.4
59°	235.7	235.7	233.0	227.8	221.1	213.1	206.4	199.8	195.8	194.4	194.4
60°	223.7	225.1	221.1	215.8	210.5	201.2	193.1	187.8	183.8	182.4	182.4
61°	213.1	213.1	210.5	203.7	197.1	190.5	182.4	175.8	173.1	170.5	170.5
62°	203.7	201.2	199.8	193.1	186.5	178.5	171.8	165.2	161.1	158.5	159.9
63°	191.7	190.5	187.8	182.4	175.8	167.8	159.9	154.5	150.5	146.5	147.9
64°	182.4	181.2	177.2	171.8	165.2	157.2	149.2	143.8	141.1	137.2	135.9
65°	170.5	169.2	167.8	161.1	154.5	146.5	139.8	134.5	130.5	127.9	125.2
66°	159.9	161.1	158.5	153.1	145.2	138.6	129.1	123.9	121.2	117.2	114.5
67°	150.5	150.5	147.9	142.5	134.5	127.9	121.2	114.5	110.5	106.6	105.2
67.5°	145.2	145.2	142.5	135.9	130.5	122.5	115.9	110.5	105.2	102.5	99.9
68°	139.8	139.8	138.6	133.2	126.6	118.6	111.9	105.2	99.9	95.9	94.6
69°	130.5	131.8	129.1	123.9	117.2	109.2	102.5	97.3	91.9	88.0	85.3
70°	122.5	121.2	118.6	113.2	106.6	101.2	94.6	88.0	82.6	77.3	76.0
71°	111.9	111.9	109.2	105.2	98.5	91.9	85.3	79.9	74.6	67.9	66.6
72°	103.9	103.9	101.2	95.9	90.5	83.9	77.3	70.6	66.6	59.9	57.2
72.5°	98.5	99.9	97.3	91.9	86.6	78.5	73.3	67.9	61.3	56.0	53.3
73°	95.9	94.6	93.2	88.0	81.2	76.0	69.2	63.9	57.2	51.9	49.3



TEST NUMBER: P584175  
 CATALOG NUMBER: HCC8S25D010MB-HM82555927-81RWWH

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	59.9	59.9	58.6	53.3	47.9	42.6	37.3	32.0	26.6	21.3	18.6
80°	41.3	42.6	39.9	37.3	33.3	27.9	22.7	18.6	13.3	10.7	8.0
82.5°	26.6	26.6	25.4	22.7	20.0	15.9	13.3	9.3	6.6	5.4	4.0
85°	13.3	14.7	13.3	12.0	9.3	8.0	6.6	4.0	2.7	1.3	1.3
87.5°	5.4	5.4	5.4	4.0	4.0	2.7	1.3	1.3	1.3	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: P584175

CATALOG NUMBER: HCC8S25D010MB-HM82555927-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9
2.5°	978.9	978.9	976.3	975.0	973.6	972.3	970.9	969.6	969.6	970.9
5°	970.9	968.2	963.0	961.6	957.6	956.3	953.7	952.3	953.7	952.3
7.5°	958.9	953.7	947.0	944.3	939.0	936.4	932.3	932.3	929.6	931.0
10°	943.0	935.0	927.0	921.7	917.6	913.7	911.0	908.3	907.0	907.0
12.5°	923.0	913.7	905.6	897.7	891.0	888.4	883.1	883.1	880.4	879.0
15°	900.4	888.4	879.0	871.1	865.7	860.4	856.4	853.8	851.1	851.1
17.5°	871.1	860.4	851.1	841.8	833.7	829.8	825.8	821.8	821.8	819.1
20°	839.1	827.1	819.1	809.8	803.1	796.5	791.2	791.2	788.5	789.8
22.5°	803.1	788.5	780.5	773.8	767.2	761.8	756.5	756.5	755.2	753.8
25°	763.2	751.1	741.8	733.9	729.8	724.6	723.2	720.5	719.3	719.3
27.5°	720.5	711.2	699.2	695.3	689.9	687.3	687.3	686.0	683.3	684.6
30°	675.3	664.6	657.9	655.3	649.9	649.9	648.6	646.0	646.0	647.4
32.5°	631.3	620.7	615.4	614.0	608.7	608.7	607.3	608.7	608.7	610.0
35°	583.4	574.1	572.7	568.7	567.4	567.4	567.4	570.1	572.7	568.7
37.5°	538.1	531.5	527.4	526.1	527.4	527.4	528.8	532.8	531.5	530.1
40°	491.5	486.1	483.5	483.5	486.1	488.8	488.8	492.8	494.1	492.8
42.5°	444.9	440.8	440.8	442.2	444.9	446.2	450.1	454.2	455.5	456.9
45°	400.9	400.9	400.9	402.2	403.6	406.3	411.5	415.6	416.9	418.3
47.5°	358.2	357.0	360.9	362.3	366.3	367.7	371.6	377.0	378.2	379.6
50°	318.3	321.0	322.3	326.4	329.0	329.0	334.3	336.9	341.0	341.0
52.5°	281.0	285.0	286.3	290.4	291.7	293.0	295.6	299.7	302.4	302.4
55°	247.7	249.1	251.8	253.1	257.0	258.4	261.1	262.4	266.4	265.0
56°	233.0	235.7	237.1	239.8	242.4	243.7	246.4	247.7	250.4	251.8
57°	219.8	221.1	225.1	226.4	229.1	229.1	230.4	234.4	234.4	235.7
58°	206.4	209.1	210.5	211.8	214.4	215.8	218.4	219.8	221.1	219.8
59°	194.4	195.8	197.1	197.1	199.8	199.8	203.7	206.4	207.8	207.8
60°	182.4	182.4	183.8	185.1	187.8	189.2	189.2	191.7	191.7	191.7
61°	170.5	170.5	171.8	173.1	174.5	174.5	177.2	177.2	178.5	179.8
62°	159.9	158.5	158.5	159.9	159.9	162.5	163.8	165.2	166.5	165.2
63°	147.9	146.5	146.5	146.5	146.5	149.2	149.2	150.5	153.1	151.8
64°	134.5	134.5	134.5	134.5	135.9	135.9	138.6	139.8	141.1	142.5
65°	125.2	122.5	121.2	121.2	122.5	123.9	125.2	126.6	127.9	127.9
66°	114.5	111.9	110.5	110.5	110.5	110.5	113.2	113.2	115.9	115.9
67°	102.5	99.9	98.5	97.3	97.3	97.3	101.2	99.9	99.9	99.9
67.5°	98.5	94.6	93.2	91.9	90.5	93.2	91.9	93.2	93.2	91.9
68°	93.2	90.5	88.0	85.3	85.3	85.3	86.6	88.0	86.6	85.3
69°	82.6	81.2	77.3	74.6	73.3	74.6	73.3	74.6	73.3	74.6
70°	73.3	69.2	65.3	63.9	62.6	62.6	62.6	61.3	62.6	61.3
71°	63.9	59.9	56.0	53.3	51.9	51.9	50.6	51.9	50.6	51.9
72°	54.6	50.6	45.3	42.6	42.6	42.6	42.6	41.3	42.6	41.3
72.5°	50.6	45.3	41.3	38.6	37.3	37.3	37.3	37.3	36.0	37.3
73°	46.7	41.3	36.0	34.7	34.7	34.7	33.3	32.0	33.3	33.3





TEST NUMBER: P584175  
 CATALOG NUMBER: HCC8S25D010MB-HM82555927-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	15.9	12.0	10.7	10.7	10.7	10.7	10.7	10.7	9.3	9.3
80°	6.6	5.4	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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°	86.6	86.6	83.9	79.9	73.3	66.6	61.3	56.0	49.3	42.6	39.9
75°	79.9	78.5	76.0	71.9	66.6	59.9	54.6	47.9	42.6	36.0	33.3

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°	38.6	32.0	29.3	26.6	26.6	26.6	25.4	25.4	25.4	26.6
75°	30.6	25.4	22.7	20.0	21.3	20.0	21.3	20.0	20.0	20.0

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

Scaled Data Report



(END OF REPORT)