

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: P593529

Luminaire Tested: **HCC8W10D010MW-HM80520850-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593529  
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: HCC8W10D010MW-HM80520850-81RWWH  
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**

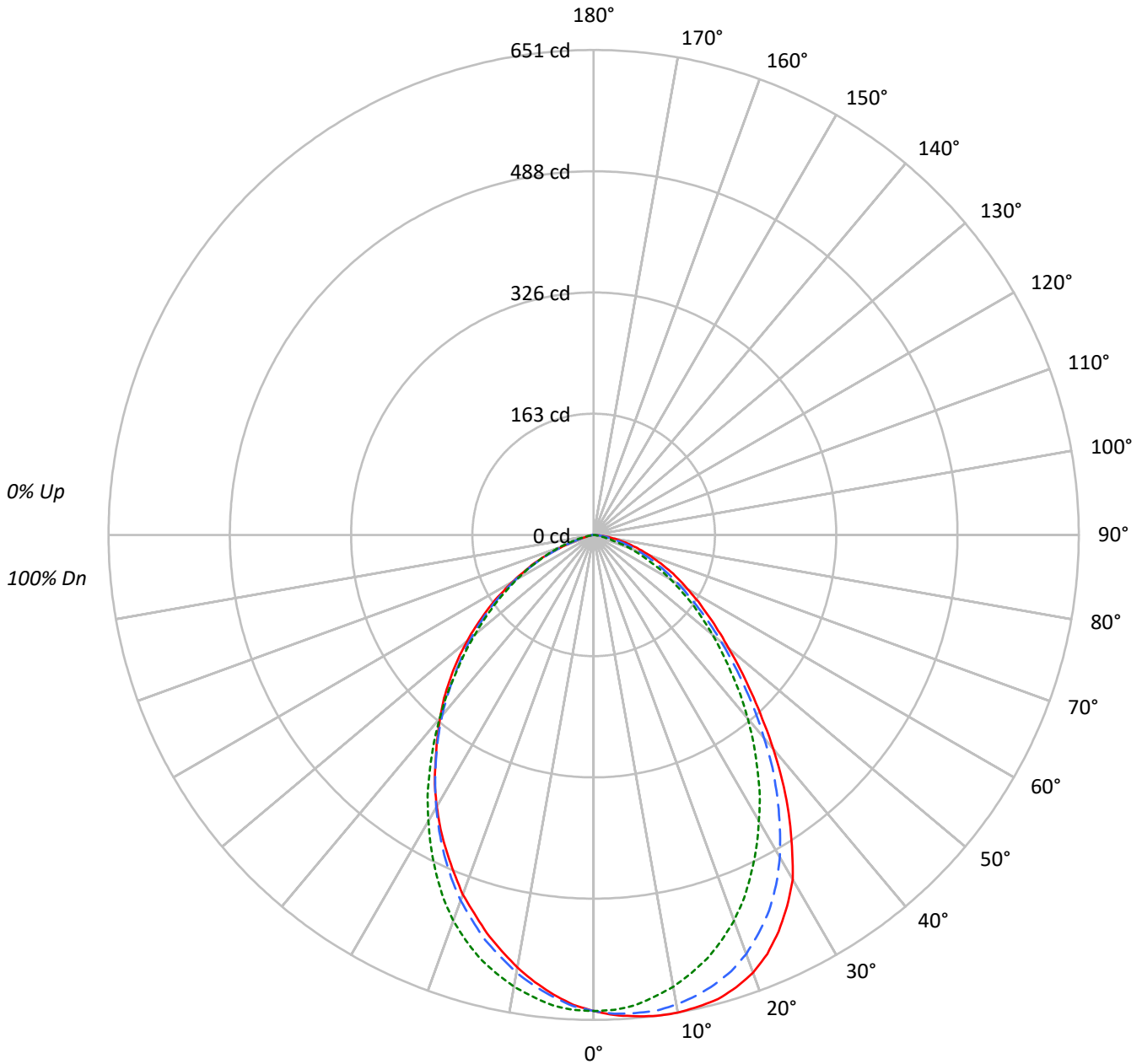
Lumens per Lamp: N/A  
Luminaire Lumens: 1198.1 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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: P593529  
CATALOG NUMBER: HCC8W10D010MW-HM80520850-81RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P593529

CATALOG NUMBER: HCC8W10D010MW-HM80520850-81RWWH

**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°	19707	19707	19707
5°	20077	19622	19167
10°	20390	19282	18465
15°	20597	18800	17667
20°	20519	18075	16851
25°	19979	17029	15913
30°	19025	15788	14987
35°	17181	14410	13917
40°	15095	12934	12901
45°	13030	11369	11857
50°	11341	9969	10631
55°	10053	8661	9268
60°	8967	7314	7684
65°	8085	5939	6071
70°	7186	4454	3588
75°	6183	2573	1549
80°	4759	923	462
85°	3078	283	283



TEST NUMBER: P593529  
 CATALOG NUMBER: HCC8W10D010MW-HM80520850-81RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.0	5.0
10°-20°	167.0	13.9
20°-30°	236.2	19.7
30°-40°	248.9	20.8
40°-50°	211.6	17.7
50°-60°	152.3	12.7
60°-70°	87.9	7.3
70°-80°	30.1	2.5
80°-90°	4.1	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°	463.2	38.7
0°-40°	712.2	59.4
0°-60°	1076.1	89.8
0°-90°	1198.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1198.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	639	639	639	639	639	
5°	649	644	634	623	619	62
15°	645	625	589	563	553	182
25°	587	557	500	474	468	269
35°	456	430	383	369	370	284
45°	299	285	261	262	272	232
55°	187	172	161	167	172	168
65°	111	95	81	80	83	110
75°	52	39	22	14	13	55
85°	9	5	1	1	1	12
90°	0	0	0	0	0	



TEST NUMBER: P593529

CATALOG NUMBER: HCC8W10D010MW-HM80520850-81RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1
2.5°	645.2	646.1	645.2	645.2	644.3	643.4	642.6	641.7	639.9	638.3	638.3
5°	648.6	650.4	648.6	648.6	646.1	644.3	642.6	639.9	636.6	633.9	633.9
7.5°	651.2	651.2	651.2	648.6	646.9	644.3	639.9	635.6	631.3	627.0	625.3
10°	651.2	651.2	650.4	646.9	645.2	639.9	635.6	629.6	623.5	617.5	615.8
12.5°	648.6	649.6	647.8	644.3	639.9	633.9	627.8	620.1	613.1	606.2	602.8
15°	645.2	644.3	642.6	638.3	633.1	625.3	619.2	610.5	601.0	592.3	588.9
17.5°	636.6	636.6	633.9	629.6	622.6	614.0	604.5	595.0	584.5	575.0	570.7
20°	625.3	625.3	621.8	616.6	609.7	598.5	588.0	576.7	564.7	555.1	550.8
22.5°	608.8	609.7	605.3	599.3	591.5	578.5	568.1	554.2	542.1	530.9	527.4
25°	587.2	588.9	584.5	578.5	568.1	556.9	543.9	530.9	517.0	505.8	500.5
27.5°	562.1	562.9	558.6	552.6	542.1	530.0	517.0	503.2	490.2	478.0	472.9
30°	534.3	530.9	529.1	521.3	510.1	499.7	485.0	473.7	459.9	449.4	443.4
32.5°	495.3	497.1	491.9	485.8	477.2	465.1	452.9	439.9	427.0	419.1	414.8
35°	456.4	458.1	455.6	449.4	439.9	429.6	417.5	407.8	396.7	387.2	382.8
37.5°	415.7	415.7	414.0	410.5	403.5	394.0	381.9	372.4	362.9	355.1	352.4
40°	375.0	373.2	372.4	369.7	363.7	355.1	347.3	339.4	329.9	324.8	321.3
42.5°	335.1	335.1	333.4	330.8	324.8	320.5	312.6	304.0	297.0	291.8	291.8
45°	298.8	299.7	297.0	295.3	291.8	284.9	278.0	271.9	265.9	262.4	260.7
47.5°	266.7	266.7	264.1	262.4	258.9	252.9	246.8	241.6	237.3	234.8	233.8
50°	236.4	236.4	236.4	232.1	227.8	223.5	219.1	213.0	210.5	208.7	207.8
52.5°	210.5	209.6	209.6	206.1	201.8	196.5	192.2	187.0	184.5	182.7	183.5
55°	187.0	187.0	186.2	181.9	177.5	172.4	168.0	163.7	161.9	160.2	161.1
56°	177.5	177.5	176.7	173.2	168.0	163.7	158.4	154.1	151.6	152.4	152.4
57°	170.6	168.9	168.9	164.6	160.2	154.1	149.8	145.4	143.8	142.9	142.9
58°	161.9	161.1	160.2	155.9	151.6	146.4	142.1	137.7	135.1	135.1	134.3
59°	153.3	153.3	151.6	148.1	143.8	138.6	134.3	129.9	127.3	126.5	126.5
60°	145.4	146.4	143.8	140.3	136.8	130.8	125.6	122.1	119.5	118.6	118.6
61°	138.6	138.6	136.8	132.5	128.1	123.8	118.6	114.3	112.6	110.8	110.8
62°	132.5	130.8	129.9	125.6	121.3	116.0	111.7	107.3	104.8	103.0	104.0
63°	124.6	123.8	122.1	118.6	114.3	109.1	104.0	100.5	97.8	95.3	96.2
64°	118.6	117.8	115.2	111.7	107.3	102.2	97.0	93.5	91.8	89.2	88.3
65°	110.8	110.0	109.1	104.8	100.5	95.3	91.0	87.5	84.9	83.2	81.4
66°	104.0	104.8	103.0	99.6	94.4	90.0	84.0	80.5	78.9	76.2	74.5
67°	97.8	97.8	96.2	92.7	87.5	83.2	78.9	74.5	71.9	69.2	68.4
67.5°	94.4	94.4	92.7	88.3	84.9	79.7	75.4	71.9	68.4	66.7	64.9
68°	91.0	91.0	90.0	86.5	82.2	77.0	72.7	68.4	64.9	62.4	61.5
69°	84.9	85.7	84.0	80.5	76.2	71.0	66.7	63.2	59.7	57.2	55.4
70°	79.7	78.9	77.0	73.6	69.2	65.9	61.5	57.2	53.7	50.2	49.4
71°	72.7	72.7	71.0	68.4	64.1	59.7	55.4	51.9	48.4	44.1	43.3
72°	67.6	67.6	65.9	62.4	58.9	54.6	50.2	45.9	43.3	38.9	37.3
72.5°	64.1	64.9	63.2	59.7	56.3	51.1	47.6	44.1	39.8	36.4	34.6
73°	62.4	61.5	60.6	57.2	52.8	49.4	45.1	41.6	37.3	33.8	32.1



TEST NUMBER: P593529  
 CATALOG NUMBER: HCC8W10D010MW-HM80520850-81RWWH

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	38.9	38.9	38.1	34.6	31.1	27.8	24.3	20.8	17.3	13.8	12.1
80°	26.8	27.8	26.0	24.3	21.6	18.2	14.7	12.1	8.7	7.0	5.2
82.5°	17.3	17.3	16.5	14.7	13.0	10.3	8.7	6.0	4.3	3.5	2.6
85°	8.7	9.5	8.7	7.8	6.0	5.2	4.3	2.6	1.7	0.8	0.8
87.5°	3.5	3.5	3.5	2.6	2.6	1.7	0.8	0.8	0.8	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

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



TEST NUMBER: P593529

CATALOG NUMBER: HCC8W10D010MW-HM80520850-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1
2.5°	636.6	636.6	634.8	633.9	633.1	632.3	631.3	630.4	630.4	631.3
5°	631.3	629.6	626.1	625.3	622.6	621.8	620.1	619.2	620.1	619.2
7.5°	623.5	620.1	615.8	614.0	610.5	608.8	606.2	606.2	604.5	605.3
10°	613.1	608.0	602.8	599.3	596.7	594.0	592.3	590.7	589.7	589.7
12.5°	600.2	594.0	588.9	583.7	579.4	577.7	574.2	574.2	572.4	571.6
15°	585.4	577.7	571.6	566.4	562.9	559.4	556.9	555.1	553.4	553.4
17.5°	566.4	559.4	553.4	547.3	542.1	539.6	536.9	534.3	534.3	532.6
20°	545.6	537.8	532.6	526.6	522.1	517.8	514.5	514.5	512.7	513.5
22.5°	522.1	512.7	507.5	503.2	498.8	495.3	491.9	491.9	491.0	490.2
25°	496.2	488.5	482.4	477.2	474.5	471.1	470.2	468.5	467.7	467.7
27.5°	468.5	462.4	454.7	452.1	448.6	446.9	446.9	445.9	444.3	445.1
30°	439.1	432.1	427.8	426.1	422.6	422.6	421.8	420.0	420.0	420.9
32.5°	410.5	403.5	400.1	399.2	395.8	395.8	394.9	395.8	395.8	396.7
35°	379.4	373.2	372.4	369.7	368.9	368.9	368.9	370.7	372.4	369.7
37.5°	349.9	345.6	342.9	342.1	342.9	342.9	343.8	346.4	345.6	344.7
40°	319.6	316.1	314.3	314.3	316.1	317.8	317.8	320.5	321.3	320.5
42.5°	289.2	286.7	286.7	287.5	289.2	290.2	292.7	295.3	296.2	297.0
45°	260.7	260.7	260.7	261.6	262.4	264.1	267.6	270.2	271.1	271.9
47.5°	232.9	232.1	234.8	235.6	238.1	239.1	241.6	245.1	245.9	246.8
50°	207.0	208.7	209.6	212.2	214.0	214.0	217.3	219.1	221.6	221.6
52.5°	182.7	185.3	186.2	188.8	189.7	190.5	192.2	194.8	196.5	196.5
55°	161.1	161.9	163.7	164.6	167.2	168.0	169.7	170.6	173.2	172.4
56°	151.6	153.3	154.1	155.9	157.6	158.4	160.2	161.1	162.9	163.7
57°	142.9	143.8	146.4	147.2	148.9	148.9	149.8	152.4	152.4	153.3
58°	134.3	135.9	136.8	137.7	139.4	140.3	142.1	142.9	143.8	142.9
59°	126.5	127.3	128.1	128.1	129.9	129.9	132.5	134.3	135.1	135.1
60°	118.6	118.6	119.5	120.3	122.1	123.0	123.0	124.6	124.6	124.6
61°	110.8	110.8	111.7	112.6	113.5	113.5	115.2	115.2	116.0	117.0
62°	104.0	103.0	103.0	104.0	104.0	105.7	106.5	107.3	108.3	107.3
63°	96.2	95.3	95.3	95.3	95.3	97.0	97.0	97.8	99.6	98.7
64°	87.5	87.5	87.5	87.5	88.3	88.3	90.0	91.0	91.8	92.7
65°	81.4	79.7	78.9	78.9	79.7	80.5	81.4	82.2	83.2	83.2
66°	74.5	72.7	71.9	71.9	71.9	71.9	73.6	73.6	75.4	75.4
67°	66.7	64.9	64.1	63.2	63.2	63.2	65.9	64.9	64.9	64.9
67.5°	64.1	61.5	60.6	59.7	58.9	60.6	59.7	60.6	60.6	59.7
68°	60.6	58.9	57.2	55.4	55.4	55.4	56.3	57.2	56.3	55.4
69°	53.7	52.8	50.2	48.4	47.6	48.4	47.6	48.4	47.6	48.4
70°	47.6	45.1	42.4	41.6	40.7	40.7	40.7	39.8	40.7	39.8
71°	41.6	38.9	36.4	34.6	33.8	33.8	32.9	33.8	32.9	33.8
72°	35.5	32.9	29.4	27.8	27.8	27.8	27.8	26.8	27.8	26.8
72.5°	32.9	29.4	26.8	25.1	24.3	24.3	24.3	24.3	23.4	24.3
73°	30.3	26.8	23.4	22.5	22.5	22.5	21.6	20.8	21.6	21.6





TEST NUMBER: P593529  
CATALOG NUMBER: HCC8W10D010MW-HM80520850-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	10.3	7.8	7.0	7.0	7.0	7.0	7.0	7.0	6.0	6.0
80°	4.3	3.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	56.3	56.3	54.6	51.9	47.6	43.3	39.8	36.4	32.1	27.8	26.0
75°	51.9	51.1	49.4	46.8	43.3	38.9	35.5	31.1	27.8	23.4	21.6

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°	25.1	20.8	19.1	17.3	17.3	17.3	16.5	16.5	16.5	17.3
75°	20.0	16.5	14.7	13.0	13.8	13.0	13.8	13.0	13.0	13.0

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

Scaled Data Report



(END OF REPORT)