

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: P593546

Luminaire Tested: **HCC8W10D010MB-HM80520950-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593546  
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: HCC8W10D010MB-HM80520950-81RWWH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

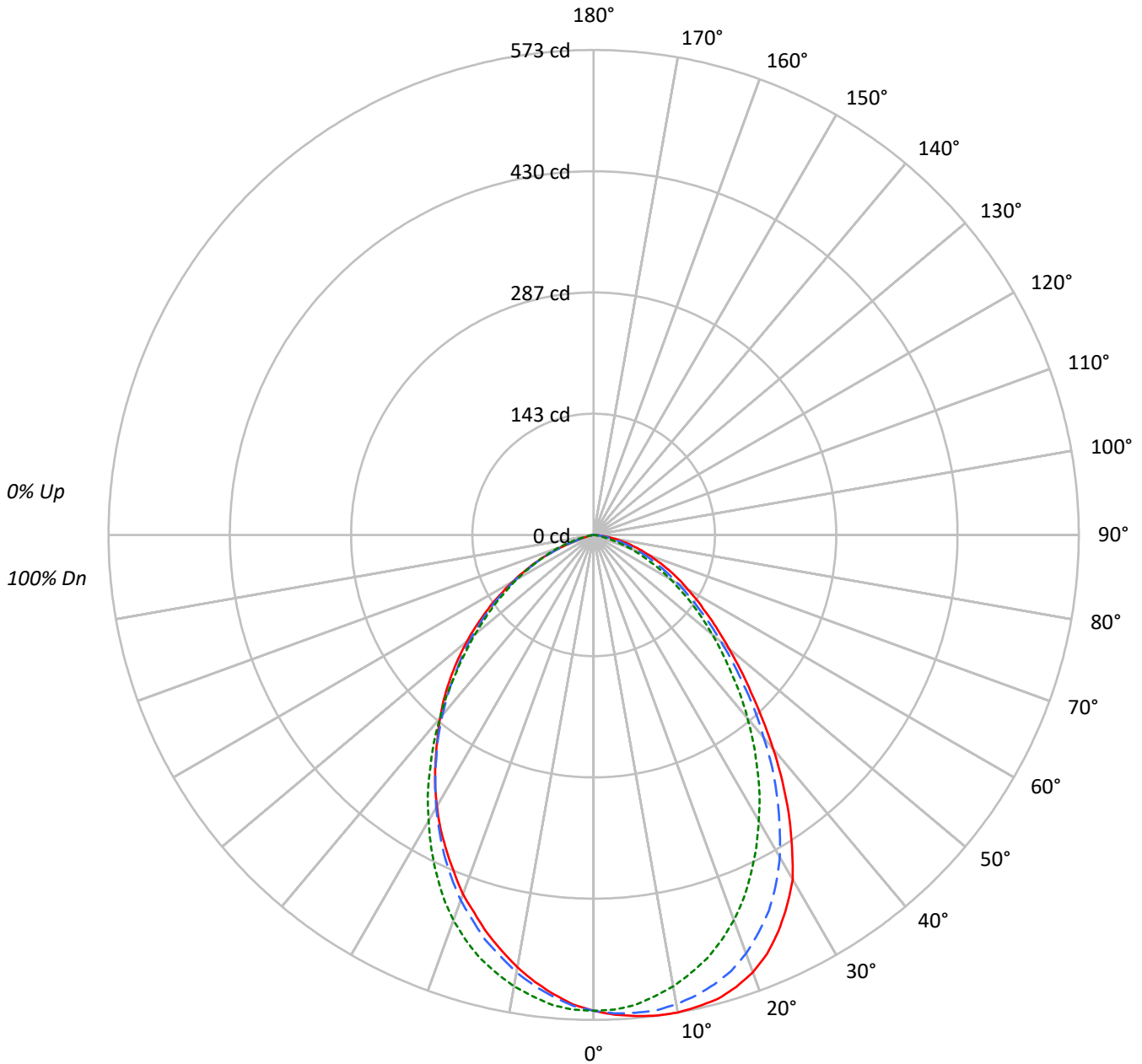
Lumens per Lamp: N/A  
Luminaire Lumens: 1053.8 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (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: P593546  
CATALOG NUMBER: HCC8W10D010MB-HM80520950-81RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P593546

CATALOG NUMBER: HCC8W10D010MB-HM80520950-81RWWH

**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								
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°	17336	17336	17336
5°	17662	17260	16858
10°	17939	16959	16245
15°	18117	16533	15537
20°	18045	15896	14823
25°	17573	14981	13994
30°	16735	13887	13182
35°	15114	12675	12246
40°	13276	11376	11348
45°	11460	9995	10431
50°	9974	8769	9355
55°	8849	7618	8150
60°	7894	6432	6765
65°	7114	5224	5334
70°	6320	3913	3165
75°	5445	2264	1358
80°	4191	817	408
85°	2689	248	248



TEST NUMBER: P593546  
 CATALOG NUMBER: HCC8W10D010MB-HM80520950-81RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.8	5.0
10°-20°	146.9	13.9
20°-30°	207.8	19.7
30°-40°	218.9	20.8
40°-50°	186.1	17.7
50°-60°	134.0	12.7
60°-70°	77.3	7.3
70°-80°	26.4	2.5
80°-90°	3.6	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°	407.5	38.7
0°-40°	626.4	59.4
0°-60°	946.5	89.8
0°-90°	1053.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1053.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	562	562	562	562	562	
5°	571	567	558	548	545	55
15°	568	550	518	495	487	160
25°	516	490	440	418	411	237
35°	402	378	337	324	325	250
45°	263	251	229	231	239	204
55°	165	152	142	147	152	148
65°	98	84	72	70	73	97
75°	46	34	19	12	11	48
85°	8	5	1	1	1	10
90°	0	0	0	0	0	



TEST NUMBER: P593546

CATALOG NUMBER: HCC8W10D010MB-HM80520950-81RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	562.2	562.2	562.2	562.2	562.2	562.2	562.2	562.2	562.2	562.2	562.2
2.5°	567.5	568.3	567.5	567.5	566.7	565.9	565.2	564.5	562.9	561.3	561.3
5°	570.6	572.0	570.6	570.6	568.3	566.7	565.2	562.9	559.9	557.6	557.6
7.5°	572.9	572.9	572.9	570.6	569.0	566.7	562.9	559.1	555.3	551.5	549.9
10°	572.9	572.9	572.0	569.0	567.5	562.9	559.1	553.8	548.5	543.1	541.6
12.5°	570.6	571.3	569.7	566.7	562.9	557.6	552.2	545.3	539.3	533.2	530.2
15°	567.5	566.7	565.2	561.3	556.8	549.9	544.6	537.1	528.6	521.1	517.9
17.5°	559.9	559.9	557.6	553.8	547.6	540.1	531.6	523.4	514.2	505.8	502.0
20°	549.9	549.9	546.9	542.3	536.2	526.4	517.2	507.4	496.7	488.3	484.4
22.5°	535.5	536.2	532.5	527.1	520.2	508.8	499.7	487.5	476.8	467.0	463.9
25°	516.5	517.9	514.2	508.8	499.7	489.8	478.4	467.0	454.7	444.9	440.3
27.5°	494.4	495.1	491.3	486.0	476.8	466.1	454.7	442.6	431.2	420.5	415.9
30°	470.0	467.0	465.4	458.6	448.7	439.6	426.6	416.6	404.5	395.3	390.0
32.5°	435.7	437.3	432.6	427.3	419.7	409.0	398.3	386.9	375.5	368.7	364.8
35°	401.5	402.9	400.6	395.3	386.9	377.8	367.1	358.8	348.8	340.5	336.7
37.5°	365.6	365.6	364.1	361.1	355.0	346.5	336.0	327.5	319.1	312.3	310.0
40°	329.8	328.3	327.5	325.3	320.0	312.3	305.4	298.6	290.2	285.6	282.6
42.5°	294.7	294.7	293.3	291.0	285.6	281.9	275.0	267.3	261.3	256.7	256.7
45°	262.8	263.6	261.3	259.8	256.7	250.6	244.5	239.2	233.8	230.8	229.2
47.5°	234.6	234.6	232.3	230.8	227.8	222.4	217.1	212.5	208.7	206.4	205.7
50°	207.9	207.9	207.9	204.1	200.4	196.5	192.7	187.4	185.1	183.5	182.8
52.5°	185.1	184.4	184.4	181.3	177.5	173.0	169.1	164.6	162.3	160.7	161.4
55°	164.6	164.6	163.7	160.0	156.1	151.6	147.7	144.0	142.4	140.9	141.7
56°	156.1	156.1	155.4	152.3	147.7	144.0	139.4	135.6	133.3	134.0	134.0
57°	150.0	148.6	148.6	144.7	140.9	135.6	131.7	128.0	126.5	125.7	125.7
58°	142.4	141.7	140.9	137.1	133.3	128.7	124.9	121.2	118.9	118.9	118.0
59°	134.9	134.9	133.3	130.3	126.5	121.9	118.0	114.3	112.0	111.2	111.2
60°	128.0	128.7	126.5	123.4	120.3	115.0	110.5	107.5	105.2	104.3	104.3
61°	121.9	121.9	120.3	116.6	112.7	108.9	104.3	100.6	99.0	97.5	97.5
62°	116.6	115.0	114.3	110.5	106.6	102.0	98.2	94.5	92.2	90.6	91.4
63°	109.7	108.9	107.5	104.3	100.6	95.9	91.4	88.3	86.1	83.8	84.5
64°	104.3	103.6	101.3	98.2	94.5	89.9	85.3	82.2	80.8	78.5	77.6
65°	97.5	96.8	95.9	92.2	88.3	83.8	79.9	76.9	74.6	73.1	71.6
66°	91.4	92.2	90.6	87.6	83.1	79.2	73.9	70.8	69.4	67.1	65.5
67°	86.1	86.1	84.5	81.5	76.9	73.1	69.4	65.5	63.2	60.9	60.2
67.5°	83.1	83.1	81.5	77.6	74.6	70.1	66.2	63.2	60.2	58.7	57.1
68°	79.9	79.9	79.2	76.2	72.4	67.8	63.9	60.2	57.1	54.8	54.1
69°	74.6	75.4	73.9	70.8	67.1	62.5	58.7	55.7	52.5	50.2	48.8
70°	70.1	69.4	67.8	64.8	60.9	57.9	54.1	50.2	47.2	44.2	43.4
71°	63.9	63.9	62.5	60.2	56.4	52.5	48.8	45.7	42.7	38.8	38.1
72°	59.4	59.4	57.9	54.8	51.8	48.0	44.2	40.4	38.1	34.3	32.7
72.5°	56.4	57.1	55.7	52.5	49.5	45.0	41.9	38.8	35.1	32.0	30.4
73°	54.8	54.1	53.4	50.2	46.5	43.4	39.7	36.5	32.7	29.7	28.1



TEST NUMBER: P593546  
 CATALOG NUMBER: HCC8W10D010MB-HM80520950-81RWWH

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	34.3	34.3	33.5	30.4	27.4	24.4	21.3	18.3	15.3	12.1	10.7
80°	23.6	24.4	22.8	21.3	19.0	16.0	13.0	10.7	7.6	6.1	4.6
82.5°	15.3	15.3	14.4	13.0	11.4	9.1	7.6	5.3	3.8	3.0	2.3
85°	7.6	8.4	7.6	6.9	5.3	4.6	3.8	2.3	1.6	0.7	0.7
87.5°	3.0	3.0	3.0	2.3	2.3	1.6	0.7	0.7	0.7	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: P593546

CATALOG NUMBER: HCC8W10D010MB-HM80520950-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	562.2	562.2	562.2	562.2	562.2	562.2	562.2	562.2	562.2	562.2
2.5°	559.9	559.9	558.3	557.6	556.8	556.0	555.3	554.5	554.5	555.3
5°	555.3	553.8	550.8	549.9	547.6	546.9	545.3	544.6	545.3	544.6
7.5°	548.5	545.3	541.6	540.1	537.1	535.5	533.2	533.2	531.6	532.5
10°	539.3	534.8	530.2	527.1	524.8	522.5	521.1	519.5	518.8	518.8
12.5°	527.9	522.5	517.9	513.4	509.6	508.1	505.1	505.1	503.5	502.8
15°	514.9	508.1	502.8	498.1	495.1	492.1	489.8	488.3	486.7	486.7
17.5°	498.1	492.1	486.7	481.4	476.8	474.5	472.3	470.0	470.0	468.4
20°	479.8	473.0	468.4	463.1	459.3	455.6	452.4	452.4	451.0	451.7
22.5°	459.3	451.0	446.4	442.6	438.7	435.7	432.6	432.6	431.9	431.2
25°	436.4	429.6	424.3	419.7	417.5	414.3	413.6	412.0	411.3	411.3
27.5°	412.0	406.8	399.9	397.6	394.6	393.1	393.1	392.3	390.8	391.5
30°	386.2	380.1	376.3	374.8	371.8	371.8	370.9	369.5	369.5	370.2
32.5°	361.1	355.0	351.9	351.1	348.1	348.1	347.4	348.1	348.1	348.8
35°	333.7	328.3	327.5	325.3	324.5	324.5	324.5	326.0	327.5	325.3
37.5°	307.7	304.0	301.7	300.9	301.7	301.7	302.4	304.7	304.0	303.1
40°	281.0	278.0	276.5	276.5	278.0	279.6	279.6	281.9	282.6	281.9
42.5°	254.5	252.2	252.2	252.9	254.5	255.2	257.5	259.8	260.5	261.3
45°	229.2	229.2	229.2	230.1	230.8	232.3	235.4	237.6	238.5	239.2
47.5°	204.9	204.1	206.4	207.2	209.5	210.2	212.5	215.5	216.4	217.1
50°	182.1	183.5	184.4	186.7	188.1	188.1	191.2	192.7	195.0	195.0
52.5°	160.7	163.0	163.7	166.0	166.8	167.6	169.1	171.4	173.0	173.0
55°	141.7	142.4	144.0	144.7	147.0	147.7	149.3	150.0	152.3	151.6
56°	133.3	134.9	135.6	137.1	138.6	139.4	140.9	141.7	143.2	144.0
57°	125.7	126.5	128.7	129.5	131.0	131.0	131.7	134.0	134.0	134.9
58°	118.0	119.6	120.3	121.2	122.6	123.4	124.9	125.7	126.5	125.7
59°	111.2	112.0	112.7	112.7	114.3	114.3	116.6	118.0	118.9	118.9
60°	104.3	104.3	105.2	105.9	107.5	108.2	108.2	109.7	109.7	109.7
61°	97.5	97.5	98.2	99.0	99.8	99.8	101.3	101.3	102.0	102.9
62°	91.4	90.6	90.6	91.4	91.4	92.9	93.6	94.5	95.2	94.5
63°	84.5	83.8	83.8	83.8	83.8	85.3	85.3	86.1	87.6	86.8
64°	76.9	76.9	76.9	76.9	77.6	77.6	79.2	79.9	80.8	81.5
65°	71.6	70.1	69.4	69.4	70.1	70.8	71.6	72.4	73.1	73.1
66°	65.5	63.9	63.2	63.2	63.2	63.2	64.8	64.8	66.2	66.2
67°	58.7	57.1	56.4	55.7	55.7	55.7	57.9	57.1	57.1	57.1
67.5°	56.4	54.1	53.4	52.5	51.8	53.4	52.5	53.4	53.4	52.5
68°	53.4	51.8	50.2	48.8	48.8	48.8	49.5	50.2	49.5	48.8
69°	47.2	46.5	44.2	42.7	41.9	42.7	41.9	42.7	41.9	42.7
70°	41.9	39.7	37.4	36.5	35.8	35.8	35.8	35.1	35.8	35.1
71°	36.5	34.3	32.0	30.4	29.7	29.7	29.0	29.7	29.0	29.7
72°	31.3	29.0	25.8	24.4	24.4	24.4	24.4	23.6	24.4	23.6
72.5°	29.0	25.8	23.6	22.1	21.3	21.3	21.3	21.3	20.6	21.3
73°	26.7	23.6	20.6	19.8	19.8	19.8	19.0	18.3	19.0	19.0





TEST NUMBER: P593546  
 CATALOG NUMBER: HCC8W10D010MB-HM80520950-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	9.1	6.9	6.1	6.1	6.1	6.1	6.1	6.1	5.3	5.3
80°	3.8	3.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



74°	49.5	49.5	48.0	45.7	41.9	38.1	35.1	32.0	28.1	24.4	22.8
75°	45.7	45.0	43.4	41.1	38.1	34.3	31.3	27.4	24.4	20.6	19.0

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°	22.1	18.3	16.7	15.3	15.3	15.3	14.4	14.4	14.4	15.3
75°	17.5	14.4	13.0	11.4	12.1	11.4	12.1	11.4	11.4	11.4

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

Scaled Data Report



(END OF REPORT)