

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: P583873

Luminaire Tested: **HCC8S15D010BZ-HM80520835-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583873  
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: HCC8S15D010BZ-HM80520835-81RWWH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

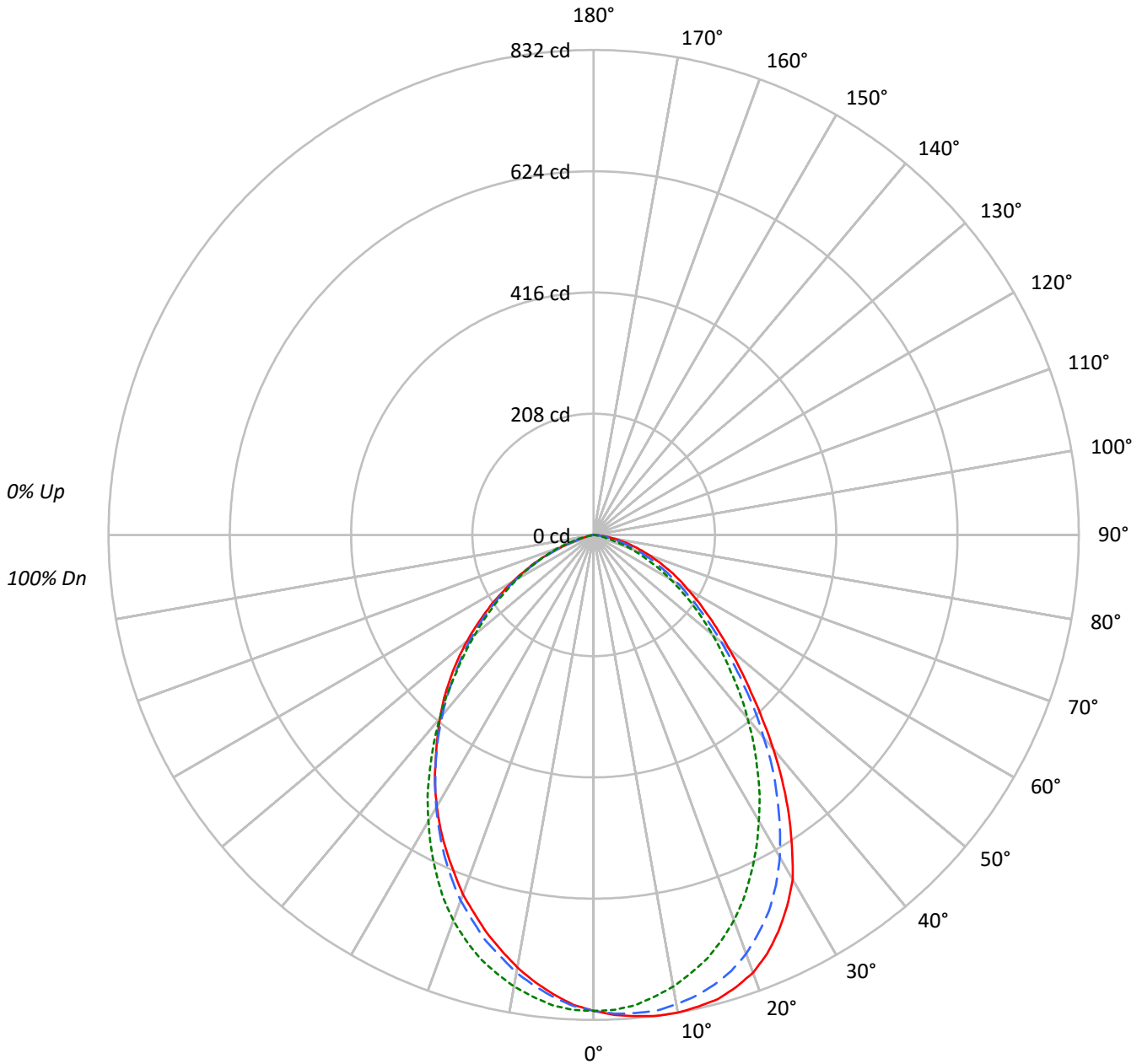
Lumens per Lamp: N/A  
Luminaire Lumens: 1530.8 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
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: P583873  
CATALOG NUMBER: HCC8S15D010BZ-HM80520835-81RWWH

### Luminous Intensity Polar Plot





TEST NUMBER: P583873

CATALOG NUMBER: HCC8S15D010BZ-HM80520835-81RWWH

**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°	25181	25181	25181
5°	25655	25073	24488
10°	26055	24633	23594
15°	26315	24020	22574
20°	26216	23092	21530
25°	25525	21758	20333
30°	24312	20171	19149
35°	21950	18412	17787
40°	19286	16524	16476
45°	16646	14526	15150
50°	14493	12742	13591
55°	12849	11064	11838
60°	11465	9350	9824
65°	10332	7588	7756
70°	9178	5680	4589
75°	7911	3300	1978
80°	6091	1172	604
85°	3927	389	389



TEST NUMBER: P583873  
 CATALOG NUMBER: HCC8S15D010BZ-HM80520835-81RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.7	5.0
10°-20°	213.4	13.9
20°-30°	301.8	19.7
30°-40°	318.0	20.8
40°-50°	270.3	17.7
50°-60°	194.6	12.7
60°-70°	112.3	7.3
70°-80°	38.4	2.5
80°-90°	5.3	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°	591.9	38.7
0°-40°	909.9	59.4
0°-60°	1374.8	89.8
0°-90°	1530.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1530.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	817	817	817	817	817	
5°	829	823	810	796	791	79
15°	824	799	752	719	707	232
25°	750	711	640	606	598	344
35°	583	549	489	471	472	363
45°	382	364	333	335	347	297
55°	239	220	206	214	220	215
65°	142	122	104	102	106	141
75°	66	50	28	18	17	70
85°	11	7	1	1	1	15
90°	0	0	0	0	0	



TEST NUMBER: P583873

CATALOG NUMBER: HCC8S15D010BZ-HM80520835-81RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	816.6	816.6	816.6	816.6	816.6	816.6	816.6	816.6	816.6	816.6	816.6
2.5°	824.3	825.4	824.3	824.3	823.3	822.2	821.0	819.9	817.7	815.4	815.4
5°	828.8	831.0	828.8	828.8	825.4	823.3	821.0	817.7	813.3	810.0	810.0
7.5°	832.1	832.1	832.1	828.8	826.5	823.3	817.7	812.2	806.6	801.1	798.9
10°	832.1	832.1	831.0	826.5	824.3	817.7	812.2	804.5	796.6	788.9	786.7
12.5°	828.8	829.9	827.6	823.3	817.7	810.0	802.2	792.3	783.4	774.6	770.1
15°	824.3	823.3	821.0	815.4	808.8	798.9	791.1	780.1	767.9	756.9	752.4
17.5°	813.3	813.3	810.0	804.5	795.5	784.5	772.3	760.1	746.9	734.7	729.1
20°	798.9	798.9	794.5	787.8	778.9	764.6	751.3	736.9	721.4	709.3	703.7
22.5°	777.8	778.9	773.5	765.7	755.8	739.1	725.9	708.2	692.6	678.3	673.8
25°	750.2	752.4	746.9	739.1	725.9	711.4	694.9	678.3	660.6	646.2	639.5
27.5°	718.1	719.3	713.7	705.9	692.6	677.2	660.6	642.9	626.2	610.8	604.2
30°	682.8	678.3	676.0	666.1	651.7	638.4	619.6	605.3	587.6	574.3	566.5
32.5°	632.9	635.2	628.5	620.7	609.7	594.2	578.6	562.1	545.5	535.5	530.0
35°	583.1	585.4	582.0	574.3	562.1	548.8	533.3	521.2	506.8	494.7	489.1
37.5°	531.2	531.2	528.9	524.4	515.6	503.4	487.9	475.7	463.6	453.7	450.3
40°	479.1	476.9	475.7	472.5	464.8	453.7	443.7	433.8	421.6	414.9	410.5
42.5°	428.3	428.3	426.0	422.7	414.9	409.3	399.5	388.4	379.6	372.8	372.8
45°	381.7	382.8	379.6	377.3	372.8	364.0	355.2	347.4	339.7	335.2	333.1
47.5°	340.8	340.8	337.5	335.2	330.9	323.1	315.3	308.7	303.2	299.8	298.7
50°	302.1	302.1	302.1	296.6	291.0	285.5	279.9	272.2	268.8	266.7	265.6
52.5°	268.8	267.8	267.8	263.3	257.9	251.1	245.6	239.0	235.7	233.4	234.6
55°	239.0	239.0	237.9	232.3	226.8	220.2	214.6	209.1	206.9	204.7	205.8
56°	226.8	226.8	225.7	221.2	214.6	209.1	202.4	196.9	193.6	194.7	194.7
57°	218.0	215.8	215.8	210.3	204.7	196.9	191.5	185.9	183.6	182.6	182.6
58°	206.9	205.8	204.7	199.2	193.6	187.0	181.5	175.9	172.6	172.6	171.5
59°	195.8	195.8	193.6	189.2	183.6	177.0	171.5	165.9	162.7	161.6	161.6
60°	185.9	187.0	183.6	179.3	174.8	167.1	160.4	156.0	152.7	151.6	151.6
61°	177.0	177.0	174.8	169.3	163.8	158.2	151.6	146.0	143.9	141.6	141.6
62°	169.3	167.1	165.9	160.4	155.0	148.2	142.8	137.2	133.9	131.7	132.8
63°	159.3	158.2	156.0	151.6	146.0	139.4	132.8	128.3	125.1	121.7	122.8
64°	151.6	150.5	147.1	142.8	137.2	130.6	123.9	119.5	117.2	114.0	112.9
65°	141.6	140.5	139.4	133.9	128.3	121.7	116.2	111.7	108.4	106.3	104.0
66°	132.8	133.9	131.7	127.2	120.6	115.1	107.4	102.9	100.7	97.4	95.2
67°	125.1	125.1	122.8	118.5	111.7	106.3	100.7	95.2	91.8	88.6	87.4
67.5°	120.6	120.6	118.5	112.9	108.4	101.8	96.3	91.8	87.4	85.2	83.0
68°	116.2	116.2	115.1	110.6	105.1	98.4	92.9	87.4	83.0	79.7	78.6
69°	108.4	109.5	107.4	102.9	97.4	90.7	85.2	80.7	76.4	73.0	70.9
70°	101.8	100.7	98.4	94.1	88.6	84.1	78.6	73.0	68.6	64.2	63.0
71°	92.9	92.9	90.7	87.4	81.8	76.4	70.9	66.4	61.9	56.4	55.3
72°	86.3	86.3	84.1	79.7	75.2	69.6	64.2	58.7	55.3	49.8	47.6
72.5°	81.8	83.0	80.7	76.4	71.9	65.3	60.9	56.4	50.9	46.5	44.2
73°	79.7	78.6	77.5	73.0	67.5	63.0	57.5	53.1	47.6	43.1	41.0



TEST NUMBER: P583873  
 CATALOG NUMBER: HCC8S15D010BZ-HM80520835-81RWWH

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	49.8	49.8	48.7	44.2	39.9	35.4	31.0	26.5	22.2	17.7	15.5
80°	34.3	35.4	33.1	31.0	27.7	23.3	18.8	15.5	11.1	8.8	6.6
82.5°	22.2	22.2	21.0	18.8	16.6	13.3	11.1	7.7	5.5	4.5	3.4
85°	11.1	12.2	11.1	10.0	7.7	6.6	5.5	3.4	2.2	1.1	1.1
87.5°	4.5	4.5	4.5	3.4	3.4	2.2	1.1	1.1	1.1	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: P583873

CATALOG NUMBER: HCC8S15D010BZ-HM80520835-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	816.6	816.6	816.6	816.6	816.6	816.6	816.6	816.6	816.6	816.6
2.5°	813.3	813.3	811.1	810.0	808.8	807.7	806.6	805.5	805.5	806.6
5°	806.6	804.5	800.0	798.9	795.5	794.5	792.3	791.1	792.3	791.1
7.5°	796.6	792.3	786.7	784.5	780.1	777.8	774.6	774.6	772.3	773.5
10°	783.4	776.7	770.1	765.7	762.4	759.0	756.9	754.6	753.5	753.5
12.5°	766.7	759.0	752.4	745.8	740.2	738.1	733.6	733.6	731.4	730.2
15°	747.9	738.1	730.2	723.6	719.3	714.8	711.4	709.3	707.1	707.1
17.5°	723.6	714.8	707.1	699.3	692.6	689.4	686.0	682.8	682.8	680.5
20°	697.1	687.1	680.5	672.8	667.2	661.7	657.2	657.2	655.0	656.1
22.5°	667.2	655.0	648.4	642.9	637.3	632.9	628.5	628.5	627.3	626.2
25°	634.1	624.1	616.4	609.7	606.4	601.9	600.8	598.6	597.6	597.6
27.5°	598.6	590.8	580.9	577.6	573.1	570.9	570.9	569.8	567.7	568.8
30°	560.9	552.1	546.6	544.4	540.0	540.0	538.9	536.6	536.6	537.8
32.5°	524.4	515.6	511.2	510.1	505.6	505.6	504.5	505.6	505.6	506.8
35°	484.7	476.9	475.7	472.5	471.4	471.4	471.4	473.6	475.7	472.5
37.5°	447.1	441.5	438.1	437.1	438.1	438.1	439.2	442.6	441.5	440.4
40°	408.3	403.9	401.6	401.6	403.9	406.1	406.1	409.3	410.5	409.3
42.5°	369.6	366.2	366.2	367.4	369.6	370.7	374.0	377.3	378.4	379.6
45°	333.1	333.1	333.1	334.1	335.2	337.5	341.9	345.2	346.3	347.4
47.5°	297.6	296.6	299.8	301.0	304.3	305.3	308.7	313.2	314.3	315.3
50°	264.5	266.7	267.8	271.1	273.3	273.3	277.8	279.9	283.3	283.3
52.5°	233.4	236.8	237.9	241.2	242.3	243.4	245.6	249.0	251.1	251.1
55°	205.8	206.9	209.1	210.3	213.5	214.6	216.9	218.0	221.2	220.2
56°	193.6	195.8	196.9	199.2	201.4	202.4	204.7	205.8	208.0	209.1
57°	182.6	183.6	187.0	188.1	190.3	190.3	191.5	194.7	194.7	195.8
58°	171.5	173.8	174.8	175.9	178.1	179.3	181.5	182.6	183.6	182.6
59°	161.6	162.7	163.8	163.8	165.9	165.9	169.3	171.5	172.6	172.6
60°	151.6	151.6	152.7	153.8	156.0	157.1	157.1	159.3	159.3	159.3
61°	141.6	141.6	142.8	143.9	145.0	145.0	147.1	147.1	148.2	149.4
62°	132.8	131.7	131.7	132.8	132.8	135.0	136.0	137.2	138.3	137.2
63°	122.8	121.7	121.7	121.7	121.7	123.9	123.9	125.1	127.2	126.2
64°	111.7	111.7	111.7	111.7	112.9	112.9	115.1	116.2	117.2	118.5
65°	104.0	101.8	100.7	100.7	101.8	102.9	104.0	105.1	106.3	106.3
66°	95.2	92.9	91.8	91.8	91.8	91.8	94.1	94.1	96.3	96.3
67°	85.2	83.0	81.8	80.7	80.7	80.7	84.1	83.0	83.0	83.0
67.5°	81.8	78.6	77.5	76.4	75.2	77.5	76.4	77.5	77.5	76.4
68°	77.5	75.2	73.0	70.9	70.9	70.9	71.9	73.0	71.9	70.9
69°	68.6	67.5	64.2	61.9	60.9	61.9	60.9	61.9	60.9	61.9
70°	60.9	57.5	54.2	53.1	52.1	52.1	52.1	50.9	52.1	50.9
71°	53.1	49.8	46.5	44.2	43.1	43.1	42.1	43.1	42.1	43.1
72°	45.3	42.1	37.6	35.4	35.4	35.4	35.4	34.3	35.4	34.3
72.5°	42.1	37.6	34.3	32.1	31.0	31.0	31.0	31.0	29.9	31.0
73°	38.7	34.3	29.9	28.8	28.8	28.8	27.7	26.5	27.7	27.7





TEST NUMBER: P583873  
CATALOG NUMBER: HCC8S15D010BZ-HM80520835-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	13.3	10.0	8.8	8.8	8.8	8.8	8.8	8.8	7.7	7.7
80°	5.5	4.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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°	71.9	71.9	69.6	66.4	60.9	55.3	50.9	46.5	41.0	35.4	33.1
75°	66.4	65.3	63.0	59.8	55.3	49.8	45.3	39.9	35.4	29.9	27.7

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°	32.1	26.5	24.3	22.2	22.2	22.2	21.0	21.0	21.0	22.2
75°	25.4	21.0	18.8	16.6	17.7	16.6	17.7	16.6	16.6	16.6

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

Scaled Data Report



(END OF REPORT)