

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: P583839

Luminaire Tested: **HCC8W15D010SL-HM80520827-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583839  
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: HCC8W15D010SL-HM80520827-81RWWH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

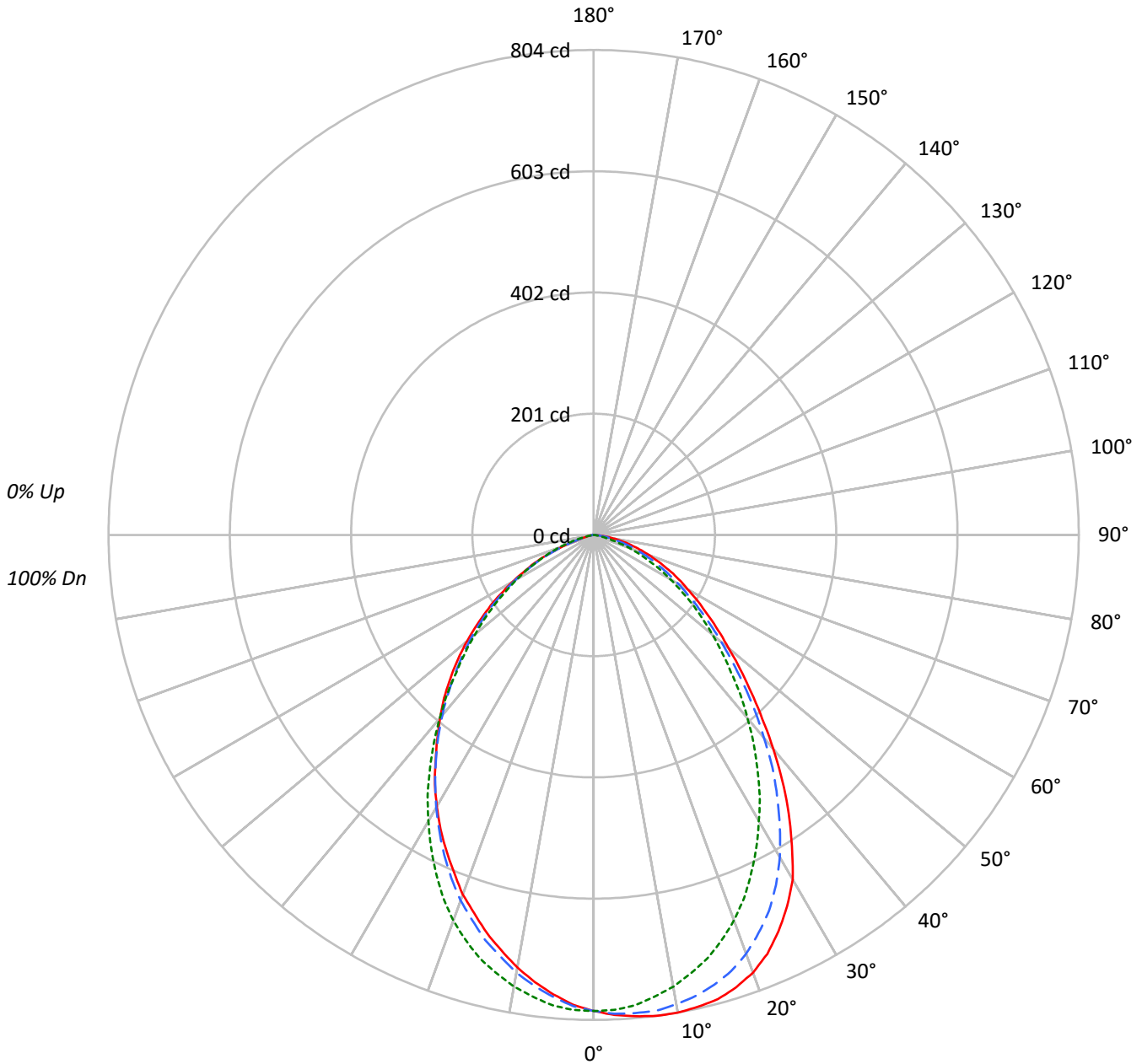
Lumens per Lamp: N/A  
Luminaire Lumens: 1479.5 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P583839  
CATALOG NUMBER: HCC8W15D010SL-HM80520827-81RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P583839

CATALOG NUMBER: HCC8W15D010SL-HM80520827-81RWWH

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	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°	24336	24336	24336
5°	24794	24231	23668
10°	25181	23810	22805
15°	25434	23215	21817
20°	25333	22318	20811
25°	24667	21034	19646
30°	23497	19498	18505
35°	21216	17794	17188
40°	18642	15969	15928
45°	16092	14038	14644
50°	14008	12315	13135
55°	12419	10693	11440
60°	11083	9035	9498
65°	9989	7333	7493
70°	8863	5500	4436
75°	7637	3193	1906
80°	5878	1137	586
85°	3786	389	389



TEST NUMBER: P583839

CATALOG NUMBER: HCC8W15D010SL-HM80520827-81RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.1	5.0
10°-20°	206.2	13.9
20°-30°	291.7	19.7
30°-40°	307.4	20.8
40°-50°	261.2	17.7
50°-60°	188.1	12.7
60°-70°	108.5	7.3
70°-80°	37.1	2.5
80°-90°	5.1	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°	572.0	38.7
0°-40°	879.4	59.4
0°-60°	1328.8	89.8
0°-90°	1479.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1479.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	789	789	789	789	789	
5°	801	796	783	769	765	77
15°	797	772	727	695	683	224
25°	725	688	618	586	577	333
35°	564	530	473	456	457	351
45°	369	352	322	324	336	287
55°	231	213	199	206	213	208
65°	137	118	100	98	103	136
75°	64	48	27	17	16	68
85°	11	6	1	1	1	14
90°	0	0	0	0	0	



TEST NUMBER: P583839

CATALOG NUMBER: HCC8W15D010SL-HM80520827-81RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	789.2	789.2	789.2	789.2	789.2	789.2	789.2	789.2	789.2	789.2	789.2
2.5°	796.7	797.7	796.7	796.7	795.7	794.6	793.5	792.4	790.2	788.2	788.2
5°	801.0	803.1	801.0	801.0	797.7	795.7	793.5	790.2	786.0	782.8	782.8
7.5°	804.2	804.2	804.2	801.0	798.8	795.7	790.2	784.9	779.6	774.2	772.0
10°	804.2	804.2	803.1	798.8	796.7	790.2	784.9	777.5	770.0	762.5	760.4
12.5°	801.0	802.0	799.9	795.7	790.2	782.8	775.3	765.7	757.1	748.5	744.3
15°	796.7	795.7	793.5	788.2	781.7	772.0	764.6	754.0	742.2	731.4	727.2
17.5°	786.0	786.0	782.8	777.5	768.9	758.2	746.4	734.7	721.8	710.1	704.7
20°	772.0	772.0	767.8	761.4	752.9	738.9	726.1	712.2	697.2	685.5	680.1
22.5°	751.8	752.9	747.5	740.0	730.4	714.3	701.6	684.4	669.4	655.5	651.3
25°	725.0	727.2	721.8	714.3	701.6	687.6	671.5	655.5	638.4	624.6	618.2
27.5°	694.1	695.0	689.7	682.3	669.4	654.4	638.4	621.3	605.3	590.3	583.9
30°	659.9	655.5	653.4	643.7	629.9	617.1	598.9	584.9	567.8	555.0	547.6
32.5°	611.7	613.8	607.4	600.0	589.2	574.3	559.2	543.2	527.2	517.5	512.2
35°	563.6	565.7	562.5	555.0	543.2	530.4	515.5	503.7	489.8	478.0	472.7
37.5°	513.3	513.3	511.2	506.9	498.4	486.6	471.6	459.8	448.0	438.5	435.2
40°	463.1	460.9	459.8	456.6	449.1	438.5	428.9	419.2	407.4	401.0	396.7
42.5°	413.8	413.8	411.7	408.5	401.0	395.7	386.1	375.4	366.8	360.4	360.4
45°	369.0	370.1	366.8	364.6	360.4	351.9	343.3	335.8	328.2	324.0	321.9
47.5°	329.3	329.3	326.2	324.0	319.7	312.2	304.7	298.4	293.1	289.8	288.7
50°	292.0	292.0	292.0	286.5	281.2	275.9	270.5	263.1	259.9	257.7	256.7
52.5°	259.9	258.8	258.8	254.5	249.2	242.8	237.4	231.0	227.7	225.7	226.7
55°	231.0	231.0	229.9	224.6	219.2	212.8	207.5	202.1	200.0	197.9	198.9
56°	219.2	219.2	218.1	213.9	207.5	202.1	195.7	190.4	187.1	188.2	188.2
57°	210.6	208.6	208.6	203.2	197.9	190.4	185.0	179.7	177.5	176.4	176.4
58°	200.0	198.9	197.9	192.4	187.1	180.8	175.3	170.0	166.8	166.8	165.8
59°	189.3	189.3	187.1	182.9	177.5	171.1	165.8	160.4	157.3	156.2	156.2
60°	179.7	180.8	177.5	173.3	168.9	161.5	155.1	150.7	147.6	146.5	146.5
61°	171.1	171.1	168.9	163.6	158.2	152.9	146.5	141.1	139.1	136.9	136.9
62°	163.6	161.5	160.4	155.1	149.7	143.3	138.0	132.6	129.4	127.2	128.3
63°	154.0	152.9	150.7	146.5	141.1	134.7	128.3	124.0	120.9	117.6	118.7
64°	146.5	145.4	142.2	138.0	132.6	126.2	119.8	115.4	113.4	110.1	109.1
65°	136.9	135.8	134.7	129.4	124.0	117.6	112.3	108.0	104.8	102.7	100.5
66°	128.3	129.4	127.2	123.0	116.5	111.2	103.8	99.4	97.4	94.1	91.9
67°	120.9	120.9	118.7	114.5	108.0	102.7	97.4	91.9	88.8	85.6	84.5
67.5°	116.5	116.5	114.5	109.1	104.8	98.3	93.0	88.8	84.5	82.3	80.3
68°	112.3	112.3	111.2	106.9	101.6	95.2	89.8	84.5	80.3	77.0	75.9
69°	104.8	105.9	103.8	99.4	94.1	87.7	82.3	78.1	73.7	70.6	68.4
70°	98.3	97.4	95.2	90.9	85.6	81.2	75.9	70.6	66.3	62.1	61.0
71°	89.8	89.8	87.7	84.5	79.2	73.7	68.4	64.1	59.9	54.6	53.5
72°	83.4	83.4	81.2	77.0	72.7	67.4	62.1	56.6	53.5	48.1	46.0
72.5°	79.2	80.3	78.1	73.7	69.5	63.1	58.8	54.6	49.2	44.9	42.8
73°	77.0	75.9	74.8	70.6	65.2	61.0	55.6	51.3	46.0	41.7	39.5



TEST NUMBER: P583839

CATALOG NUMBER: HCC8W15D010SL-HM80520827-81RWWH

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	<b>48.1</b>	48.1	47.0	42.8	38.4	34.2	29.9	25.7	21.3	17.1	14.9
80°	<b>33.1</b>	34.2	32.1	29.9	26.8	22.4	18.2	14.9	10.7	8.6	6.4
82.5°	<b>21.3</b>	21.3	20.4	18.2	16.0	12.8	10.7	7.5	5.3	4.2	3.3
85°	<b>10.7</b>	11.8	10.7	9.6	7.5	6.4	5.3	3.3	2.2	1.1	1.1
87.5°	<b>4.2</b>	4.2	4.2	3.3	3.3	2.2	1.1	1.1	1.1	0.0	0.0
90°	<b>0.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P583839

CATALOG NUMBER: HCC8W15D010SL-HM80520827-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	789.2	789.2	789.2	789.2	789.2	789.2	789.2	789.2	789.2	789.2
2.5°	786.0	786.0	783.9	782.8	781.7	780.6	779.6	778.6	778.6	779.6
5°	779.6	777.5	773.1	772.0	768.9	767.8	765.7	764.6	765.7	764.6
7.5°	770.0	765.7	760.4	758.2	754.0	751.8	748.5	748.5	746.4	747.5
10°	757.1	750.7	744.3	740.0	736.9	733.6	731.4	729.3	728.3	728.3
12.5°	741.1	733.6	727.2	720.7	715.4	713.2	709.0	709.0	706.9	705.8
15°	722.9	713.2	705.8	699.4	695.0	690.8	687.6	685.5	683.4	683.4
17.5°	699.4	690.8	683.4	675.9	669.4	666.2	663.0	659.9	659.9	657.7
20°	673.7	664.1	657.7	650.2	644.8	639.5	635.3	635.3	633.1	634.2
22.5°	644.8	633.1	626.7	621.3	616.0	611.7	607.4	607.4	606.4	605.3
25°	612.7	603.1	595.6	589.2	586.0	581.8	580.7	578.5	577.4	577.4
27.5°	578.5	571.0	561.4	558.3	553.9	551.8	551.8	550.7	548.6	549.7
30°	542.1	533.6	528.3	526.1	521.9	521.9	520.8	518.6	518.6	519.7
32.5°	506.9	498.4	494.0	493.0	488.7	488.7	487.7	488.7	488.7	489.8
35°	468.4	460.9	459.8	456.6	455.6	455.6	455.6	457.7	459.8	456.6
37.5°	432.0	426.7	423.4	422.4	423.4	423.4	424.5	427.8	426.7	425.6
40°	394.6	390.3	388.1	388.1	390.3	392.5	392.5	395.7	396.7	395.7
42.5°	357.2	353.9	353.9	355.0	357.2	358.2	361.5	364.6	365.7	366.8
45°	321.9	321.9	321.9	322.9	324.0	326.2	330.4	333.7	334.7	335.8
47.5°	287.6	286.5	289.8	290.9	294.1	295.1	298.4	302.7	303.7	304.7
50°	255.6	257.7	258.8	262.0	264.1	264.1	268.5	270.5	273.8	273.8
52.5°	225.7	228.8	229.9	233.2	234.3	235.2	237.4	240.6	242.8	242.8
55°	198.9	200.0	202.1	203.2	206.4	207.5	209.5	210.6	213.9	212.8
56°	187.1	189.3	190.4	192.4	194.6	195.7	197.9	198.9	201.0	202.1
57°	176.4	177.5	180.8	181.8	183.9	183.9	185.0	188.2	188.2	189.3
58°	165.8	167.9	168.9	170.0	172.2	173.3	175.3	176.4	177.5	176.4
59°	156.2	157.3	158.2	158.2	160.4	160.4	163.6	165.8	166.8	166.8
60°	146.5	146.5	147.6	148.7	150.7	151.8	151.8	154.0	154.0	154.0
61°	136.9	136.9	138.0	139.1	140.1	140.1	142.2	142.2	143.3	144.4
62°	128.3	127.2	127.2	128.3	128.3	130.5	131.6	132.6	133.6	132.6
63°	118.7	117.6	117.6	117.6	117.6	119.8	119.8	120.9	123.0	121.9
64°	108.0	108.0	108.0	108.0	109.1	109.1	111.2	112.3	113.4	114.5
65°	100.5	98.3	97.4	97.4	98.3	99.4	100.5	101.6	102.7	102.7
66°	91.9	89.8	88.8	88.8	88.8	88.8	90.9	90.9	93.0	93.0
67°	82.3	80.3	79.2	78.1	78.1	78.1	81.2	80.3	80.3	80.3
67.5°	79.2	75.9	74.8	73.7	72.7	74.8	73.7	74.8	74.8	73.7
68°	74.8	72.7	70.6	68.4	68.4	68.4	69.5	70.6	69.5	68.4
69°	66.3	65.2	62.1	59.9	58.8	59.9	58.8	59.9	58.8	59.9
70°	58.8	55.6	52.4	51.3	50.2	50.2	50.2	49.2	50.2	49.2
71°	51.3	48.1	44.9	42.8	41.7	41.7	40.6	41.7	40.6	41.7
72°	43.9	40.6	36.4	34.2	34.2	34.2	34.2	33.1	34.2	33.1
72.5°	40.6	36.4	33.1	31.0	29.9	29.9	29.9	29.9	28.9	29.9
73°	37.5	33.1	28.9	27.8	27.8	27.8	26.8	25.7	26.8	26.8





TEST NUMBER: P583839

CATALOG NUMBER: HCC8W15D010SL-HM80520827-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	12.8	9.6	8.6	8.6	8.6	8.6	8.6	8.6	7.5	7.5
80°	5.3	4.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



74°	69.5	69.5	67.4	64.1	58.8	53.5	49.2	44.9	39.5	34.2	32.1
75°	64.1	63.1	61.0	57.7	53.5	48.1	43.9	38.4	34.2	28.9	26.8

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°	31.0	25.7	23.5	21.3	21.3	21.3	20.4	20.4	20.4	21.3
75°	24.6	20.4	18.2	16.0	17.1	16.0	17.1	16.0	16.0	16.0

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

Scaled Data Report



(END OF REPORT)