

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: P583890

Luminaire Tested: **HCC8W15D010SL-HM80520840-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583890
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-HM80520840-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

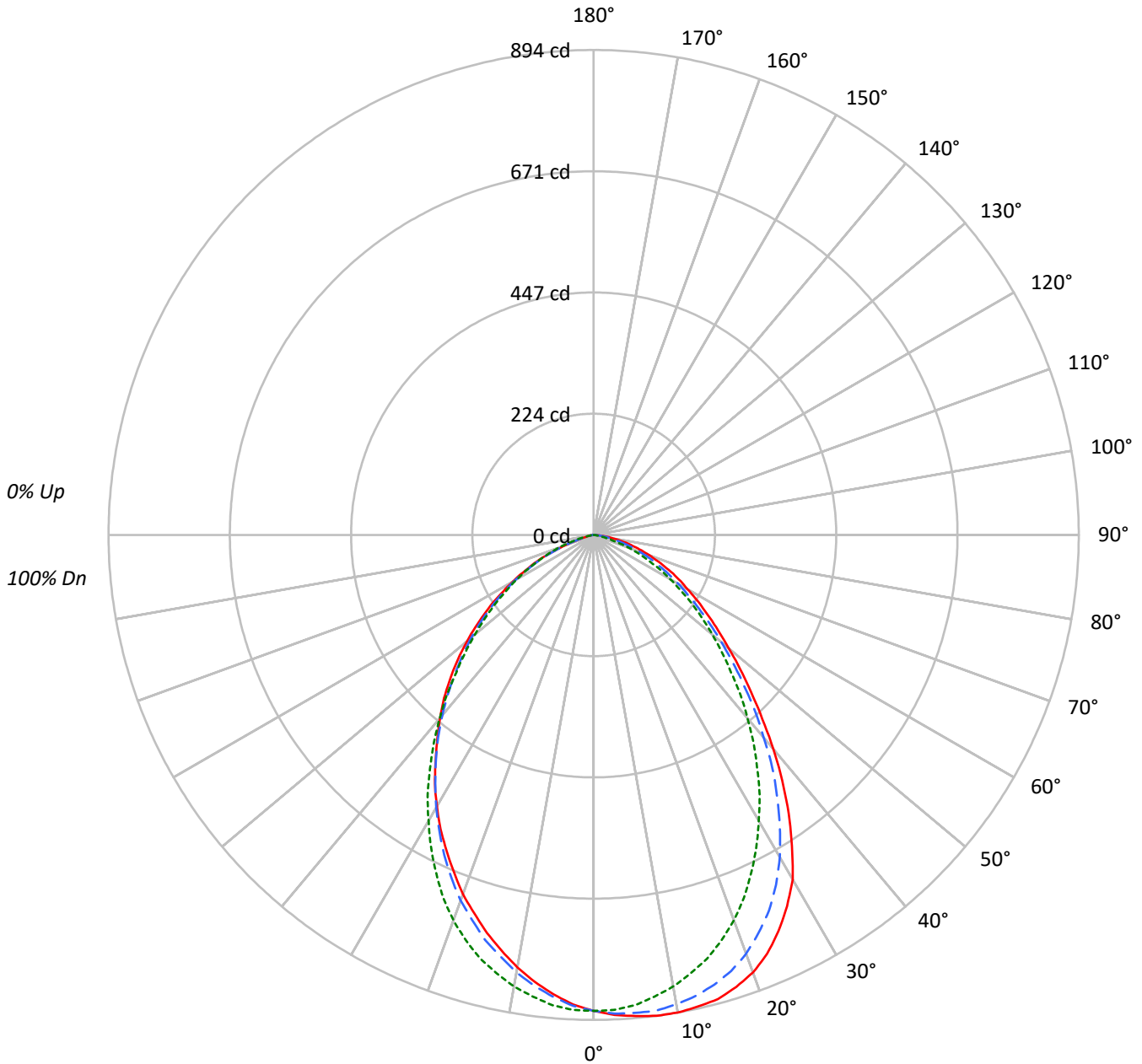
Lumens per Lamp: N/A
Luminaire Lumens: 1644.7 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): NR
Input Current (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: P583890
CATALOG NUMBER: HCC8W15D010SL-HM80520840-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P583890

CATALOG NUMBER: HCC8W15D010SL-HM80520840-81RWWH

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°	27056	27056	27056
5°	27562	26939	26311
10°	27993	26465	25347
15°	28275	25807	24250
20°	28165	24808	23132
25°	27423	23378	21840
30°	26118	21670	20574
35°	23584	19782	19112
40°	20723	17752	17704
45°	17888	15608	16279
50°	15567	13687	14603
55°	13806	11887	12715
60°	12316	10046	10558
65°	11105	8150	8325
70°	9863	6104	4932
75°	8495	3550	2121
80°	6553	1261	639
85°	4210	425	425



TEST NUMBER: P583890
 CATALOG NUMBER: HCC8W15D010SL-HM80520840-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	5.0
10°-20°	229.3	13.9
20°-30°	324.3	19.7
30°-40°	341.7	20.8
40°-50°	290.4	17.7
50°-60°	209.1	12.7
60°-70°	120.6	7.3
70°-80°	41.3	2.5
80°-90°	5.7	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°	635.9	38.7
0°-40°	977.6	59.4
0°-60°	1477.1	89.8
0°-90°	1644.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1644.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	877	877	877	877	877	
5°	890	884	870	855	850	85
15°	886	858	808	773	760	249
25°	806	764	687	651	642	370
35°	626	590	526	506	508	390
45°	410	391	358	360	373	319
55°	257	236	221	229	236	231
65°	152	131	112	109	114	151
75°	71	54	30	19	18	75
85°	12	7	1	1	1	16
90°	0	0	0	0	0	

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



TEST NUMBER: P583890

CATALOG NUMBER: HCC8W15D010SL-HM80520840-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4
2.5°	885.7	886.9	885.7	885.7	884.5	883.3	882.1	880.9	878.6	876.2	876.2
5°	890.4	892.8	890.4	890.4	886.9	884.5	882.1	878.6	873.7	870.3	870.3
7.5°	894.0	894.0	894.0	890.4	888.0	884.5	878.6	872.5	866.6	860.7	858.3
10°	894.0	894.0	892.8	888.0	885.7	878.6	872.5	864.2	855.9	847.6	845.2
12.5°	890.4	891.6	889.2	884.5	878.6	870.3	861.8	851.2	841.7	832.2	827.4
15°	885.7	884.5	882.1	876.2	869.0	858.3	850.0	838.1	825.1	813.1	808.4
17.5°	873.7	873.7	870.3	864.2	854.7	842.9	829.8	816.7	802.4	789.4	783.4
20°	858.3	858.3	853.5	846.4	836.9	821.4	807.2	791.7	775.1	762.0	756.0
22.5°	835.7	836.9	831.0	822.7	811.9	794.1	779.9	760.8	744.2	728.8	724.0
25°	806.0	808.4	802.4	794.1	779.9	764.3	746.6	728.8	709.7	694.2	687.1
27.5°	771.6	772.8	766.7	758.4	744.2	727.6	709.7	690.7	672.9	656.2	649.1
30°	733.5	728.8	726.4	715.6	700.2	685.9	665.8	650.2	631.3	617.0	608.6
32.5°	680.0	682.4	675.3	667.0	655.0	638.4	621.8	603.9	586.1	575.4	569.5
35°	626.5	628.9	625.3	617.0	603.9	589.6	573.0	560.0	544.4	531.4	525.5
37.5°	570.6	570.6	568.3	563.5	553.9	540.9	524.3	511.2	498.1	487.4	483.8
40°	514.8	512.4	511.2	507.7	499.2	487.4	476.7	466.0	453.0	445.8	441.0
42.5°	460.1	460.1	457.7	454.2	445.8	439.8	429.1	417.3	407.8	400.7	400.7
45°	410.2	411.3	407.8	405.4	400.7	391.1	381.6	373.3	365.0	360.2	357.9
47.5°	366.2	366.2	362.6	360.2	355.5	347.2	338.8	331.6	325.7	322.2	321.0
50°	324.5	324.5	324.5	318.6	312.7	306.7	300.8	292.5	288.8	286.5	285.3
52.5°	288.8	287.6	287.6	282.9	277.0	269.8	263.9	256.8	253.2	250.9	252.0
55°	256.8	256.8	255.6	249.7	243.7	236.5	230.6	224.7	222.3	219.9	221.1
56°	243.7	243.7	242.6	237.7	230.6	224.7	217.5	211.6	208.0	209.2	209.2
57°	234.1	231.8	231.8	225.8	219.9	211.6	205.7	199.7	197.4	196.2	196.2
58°	222.3	221.1	219.9	214.0	208.0	200.9	195.0	189.1	185.4	185.4	184.2
59°	210.4	210.4	208.0	203.3	197.4	190.1	184.2	178.3	174.7	173.5	173.5
60°	199.7	200.9	197.4	192.6	187.9	179.5	172.3	167.6	164.0	162.9	162.9
61°	190.1	190.1	187.9	181.8	175.9	170.0	162.9	156.9	154.6	152.2	152.2
62°	181.8	179.5	178.3	172.3	166.4	159.3	153.4	147.4	143.9	141.5	142.7
63°	171.2	170.0	167.6	162.9	156.9	149.8	142.7	137.9	134.4	130.7	131.9
64°	162.9	161.7	158.1	153.4	147.4	140.3	133.2	128.3	126.0	122.4	121.2
65°	152.2	151.0	149.8	143.9	137.9	130.7	124.8	120.0	116.5	114.1	111.7
66°	142.7	143.9	141.5	136.8	129.5	123.6	115.3	110.5	108.2	104.6	102.2
67°	134.4	134.4	131.9	127.2	120.0	114.1	108.2	102.2	98.7	95.1	93.9
67.5°	129.5	129.5	127.2	121.2	116.5	109.4	103.4	98.7	93.9	91.6	89.2
68°	124.8	124.8	123.6	118.9	112.9	105.8	99.9	93.9	89.2	85.6	84.4
69°	116.5	117.7	115.3	110.5	104.6	97.5	91.6	86.8	82.1	78.4	76.0
70°	109.4	108.2	105.8	101.1	95.1	90.4	84.4	78.4	73.7	68.9	67.7
71°	99.9	99.9	97.5	93.9	88.0	82.1	76.0	71.3	66.5	60.6	59.4
72°	92.8	92.8	90.4	85.6	80.9	75.0	68.9	63.0	59.4	53.5	51.1
72.5°	88.0	89.2	86.8	82.1	77.2	70.1	65.4	60.6	54.7	49.9	47.6
73°	85.6	84.4	83.3	78.4	72.5	67.7	61.8	57.1	51.1	46.4	44.0



TEST NUMBER: P583890
 CATALOG NUMBER: HCC8W15D010SL-HM80520840-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	53.5	53.5	52.3	47.6	42.8	38.1	33.3	28.6	23.7	19.0	16.6
80°	36.9	38.1	35.7	33.3	29.8	24.9	20.2	16.6	11.9	9.5	7.1
82.5°	23.7	23.7	22.5	20.2	17.8	14.2	11.9	8.3	5.9	4.7	3.6
85°	11.9	13.1	11.9	10.7	8.3	7.1	5.9	3.6	2.4	1.2	1.2
87.5°	4.7	4.7	4.7	3.6	3.6	2.4	1.2	1.2	1.2	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: P583890

CATALOG NUMBER: HCC8W15D010SL-HM80520840-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4
2.5°	873.7	873.7	871.3	870.3	869.0	867.8	866.6	865.4	865.4	866.6
5°	866.6	864.2	859.5	858.3	854.7	853.5	851.2	850.0	851.2	850.0
7.5°	855.9	851.2	845.2	842.9	838.1	835.7	832.2	832.2	829.8	831.0
10°	841.7	834.6	827.4	822.7	819.0	815.5	813.1	810.7	809.5	809.5
12.5°	823.9	815.5	808.4	801.2	795.3	792.9	788.2	788.2	785.8	784.6
15°	803.6	792.9	784.6	777.5	772.8	767.9	764.3	762.0	759.6	759.6
17.5°	777.5	767.9	759.6	751.3	744.2	740.6	737.1	733.5	733.5	731.1
20°	748.9	738.2	731.1	722.8	716.9	711.0	706.1	706.1	703.7	704.9
22.5°	716.9	703.7	696.6	690.7	684.8	680.0	675.3	675.3	674.1	672.9
25°	681.2	670.5	662.1	655.0	651.4	646.7	645.5	643.1	641.9	641.9
27.5°	643.1	634.8	624.1	620.6	615.8	613.5	613.5	612.3	609.9	611.1
30°	602.7	593.2	587.3	584.9	580.1	580.1	578.9	576.6	576.6	577.8
32.5°	563.5	553.9	549.2	548.0	543.3	543.3	542.1	543.3	543.3	544.4
35°	520.7	512.4	511.2	507.7	506.5	506.5	506.5	508.8	511.2	507.7
37.5°	480.3	474.3	470.8	469.6	470.8	470.8	472.0	475.5	474.3	473.1
40°	438.6	433.9	431.5	431.5	433.9	436.3	436.3	439.8	441.0	439.8
42.5°	397.0	393.4	393.4	394.6	397.0	398.3	401.9	405.4	406.6	407.8
45°	357.9	357.9	357.9	359.0	360.2	362.6	367.3	370.9	372.1	373.3
47.5°	319.8	318.6	322.2	323.3	326.9	328.1	331.6	336.4	337.6	338.8
50°	284.1	286.5	287.6	291.2	293.7	293.7	298.4	300.8	304.4	304.4
52.5°	250.9	254.4	255.6	259.2	260.4	261.5	263.9	267.5	269.8	269.8
55°	221.1	222.3	224.7	225.8	229.4	230.6	233.0	234.1	237.7	236.5
56°	208.0	210.4	211.6	214.0	216.4	217.5	219.9	221.1	223.5	224.7
57°	196.2	197.4	200.9	202.1	204.5	204.5	205.7	209.2	209.2	210.4
58°	184.2	186.7	187.9	189.1	191.4	192.6	195.0	196.2	197.4	196.2
59°	173.5	174.7	175.9	175.9	178.3	178.3	181.8	184.2	185.4	185.4
60°	162.9	162.9	164.0	165.2	167.6	168.8	168.8	171.2	171.2	171.2
61°	152.2	152.2	153.4	154.6	155.7	155.7	158.1	158.1	159.3	160.5
62°	142.7	141.5	141.5	142.7	142.7	145.1	146.2	147.4	148.6	147.4
63°	131.9	130.7	130.7	130.7	130.7	133.2	133.2	134.4	136.8	135.6
64°	120.0	120.0	120.0	120.0	121.2	121.2	123.6	124.8	126.0	127.2
65°	111.7	109.4	108.2	108.2	109.4	110.5	111.7	112.9	114.1	114.1
66°	102.2	99.9	98.7	98.7	98.7	98.7	101.1	101.1	103.4	103.4
67°	91.6	89.2	88.0	86.8	86.8	86.8	90.4	89.2	89.2	89.2
67.5°	88.0	84.4	83.3	82.1	80.9	83.3	82.1	83.3	83.3	82.1
68°	83.3	80.9	78.4	76.0	76.0	76.0	77.2	78.4	77.2	76.0
69°	73.7	72.5	68.9	66.5	65.4	66.5	65.4	66.5	65.4	66.5
70°	65.4	61.8	58.2	57.1	55.9	55.9	55.9	54.7	55.9	54.7
71°	57.1	53.5	49.9	47.6	46.4	46.4	45.2	46.4	45.2	46.4
72°	48.7	45.2	40.4	38.1	38.1	38.1	38.1	36.9	38.1	36.9
72.5°	45.2	40.4	36.9	34.5	33.3	33.3	33.3	33.3	32.1	33.3
73°	41.6	36.9	32.1	31.0	31.0	31.0	29.8	28.6	29.8	29.8



TEST NUMBER: P583890
CATALOG NUMBER: HCC8W15D010SL-HM80520840-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	14.2	10.7	9.5	9.5	9.5	9.5	9.5	9.5	8.3	8.3
80°	5.9	4.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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°	77.2	77.2	75.0	71.3	65.4	59.4	54.7	49.9	44.0	38.1	35.7
75°	71.3	70.1	67.7	64.2	59.4	53.5	48.7	42.8	38.1	32.1	29.8

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°	34.5	28.6	26.1	23.7	23.7	23.7	22.5	22.5	22.5	23.7
75°	27.4	22.5	20.2	17.8	19.0	17.8	19.0	17.8	17.8	17.8

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

Scaled Data Report



(END OF REPORT)