

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: P583856

Luminaire Tested: **HCC8W15D010SL-HM80520830-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583856
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-HM80520830-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

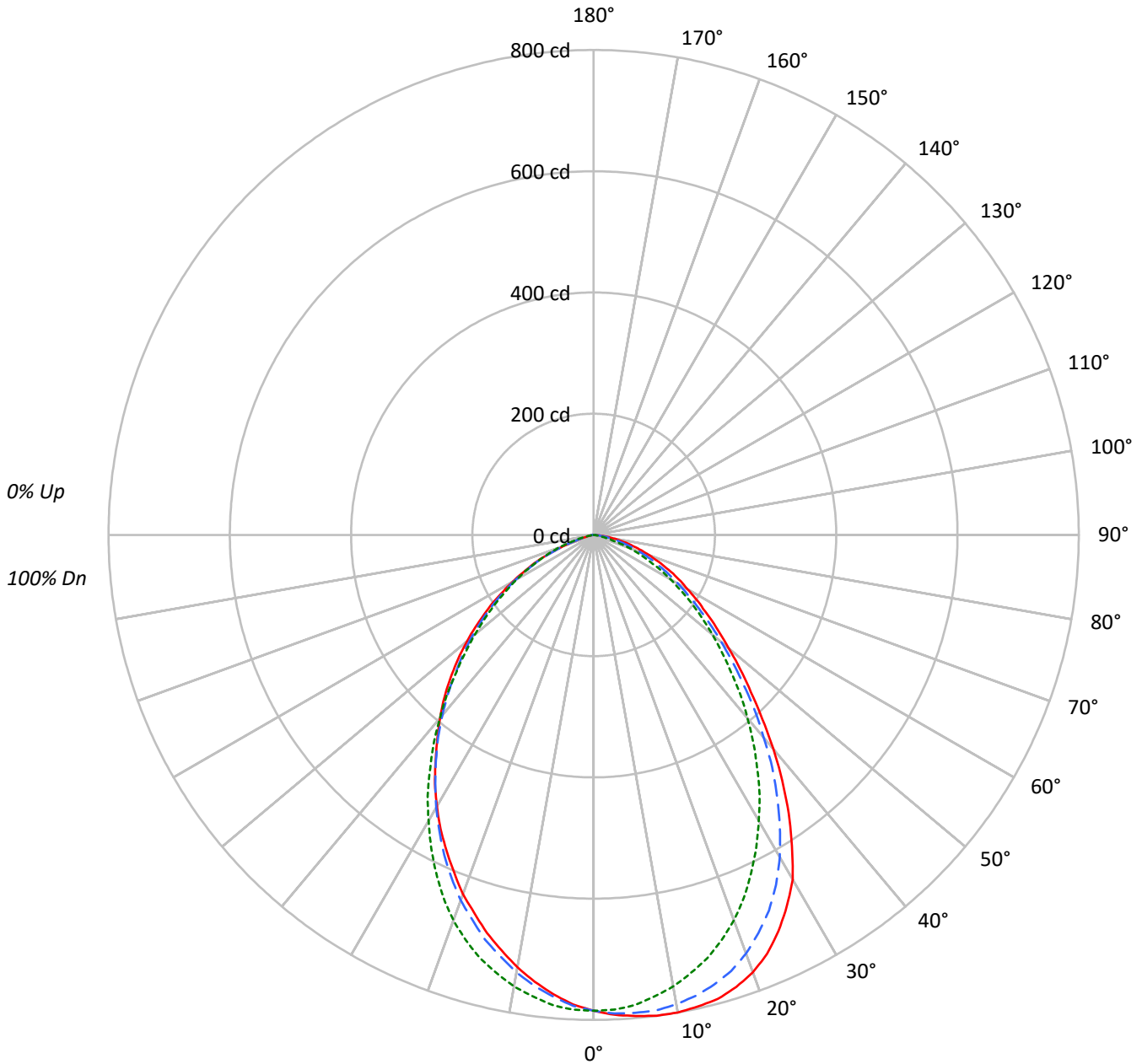
Lumens per Lamp: N/A
Luminaire Lumens: 1471.5 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): 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: P583856
CATALOG NUMBER: HCC8W15D010SL-HM80520830-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P583856

CATALOG NUMBER: HCC8W15D010SL-HM80520830-81RWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	24203	24203	24203
5°	24658	24101	23541
10°	25046	23681	22679
15°	25297	23088	21696
20°	25199	22200	20697
25°	24535	20918	19540
30°	23365	19388	18405
35°	21103	17697	17098
40°	18541	15884	15844
45°	16000	13964	14565
50°	13931	12243	13063
55°	12354	10639	11376
60°	11021	8986	9448
65°	9938	7296	7450
70°	8818	5464	4409
75°	7613	3169	1894
80°	5860	1137	550
85°	3750	389	389



TEST NUMBER: P583856
 CATALOG NUMBER: HCC8W15D010SL-HM80520830-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	5.0
10°-20°	205.1	13.9
20°-30°	290.1	19.7
30°-40°	305.7	20.8
40°-50°	259.8	17.7
50°-60°	187.1	12.7
60°-70°	107.9	7.3
70°-80°	36.9	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°	568.9	38.7
0°-40°	874.6	59.4
0°-60°	1321.6	89.8
0°-90°	1471.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1471.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	785	785	785	785	785	
5°	797	791	779	765	760	76
15°	792	768	723	691	680	223
25°	721	684	615	583	574	331
35°	561	528	470	453	454	349
45°	367	350	320	322	334	285
55°	230	212	198	205	212	207
65°	136	117	100	98	102	135
75°	64	48	27	17	16	67
85°	11	6	1	1	1	14
90°	0	0	0	0	0	



TEST NUMBER: P583856

CATALOG NUMBER: HCC8W15D010SL-HM80520830-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9
2.5°	792.4	793.5	792.4	792.4	791.3	790.2	789.2	788.1	786.0	783.9	783.9
5°	796.6	798.8	796.6	796.6	793.5	791.3	789.2	786.0	781.7	778.6	778.6
7.5°	799.9	799.9	799.9	796.6	794.5	791.3	786.0	780.7	775.4	770.0	767.9
10°	799.9	799.9	798.8	794.5	792.4	786.0	780.7	773.2	765.8	758.3	756.3
12.5°	796.6	797.7	795.5	791.3	786.0	778.6	771.1	761.6	753.0	744.6	740.2
15°	792.4	791.3	789.2	783.9	777.5	767.9	760.5	749.9	738.2	727.5	723.2
17.5°	781.7	781.7	778.6	773.2	764.7	754.1	742.4	730.7	717.9	706.3	700.9
20°	767.9	767.9	763.6	757.2	748.8	734.9	722.2	708.3	693.5	681.8	676.5
22.5°	747.7	748.8	743.5	736.0	726.4	710.5	697.7	680.7	665.8	652.0	647.7
25°	721.1	723.2	717.9	710.5	697.7	683.8	667.9	652.0	634.9	621.2	614.8
27.5°	690.2	691.3	686.0	678.5	665.8	650.9	634.9	617.9	602.0	587.1	580.7
30°	656.2	652.0	649.9	640.3	626.5	613.7	595.6	581.8	564.8	552.0	544.5
32.5°	608.4	610.5	604.1	596.7	586.0	571.2	556.2	540.3	524.3	514.8	509.5
35°	560.6	562.6	559.5	552.0	540.3	527.5	512.6	500.9	487.2	475.4	470.1
37.5°	510.6	510.6	508.4	504.2	495.6	483.9	469.0	457.3	445.6	436.1	432.8
40°	460.6	458.4	457.3	454.2	446.7	436.1	426.4	416.9	405.2	398.9	394.6
42.5°	411.6	411.6	409.5	406.3	398.9	393.6	383.9	373.3	364.8	358.5	358.5
45°	366.9	368.0	364.8	362.7	358.5	349.9	341.4	334.0	326.6	322.2	320.2
47.5°	327.6	327.6	324.4	322.2	318.0	310.5	303.2	296.8	291.4	288.2	287.2
50°	290.4	290.4	290.4	285.0	279.7	274.4	269.1	261.6	258.5	256.3	255.2
52.5°	258.5	257.4	257.4	253.2	247.9	241.5	236.1	229.8	226.5	224.4	225.5
55°	229.8	229.8	228.7	223.4	218.0	211.6	206.3	201.0	198.9	196.8	197.9
56°	218.0	218.0	217.0	212.7	206.3	201.0	194.6	189.3	186.2	187.1	187.1
57°	209.5	207.4	207.4	202.1	196.8	189.3	184.0	178.7	176.5	175.4	175.4
58°	198.9	197.9	196.8	191.5	186.2	179.8	174.5	169.1	165.9	165.9	164.8
59°	188.2	188.2	186.2	181.8	176.5	170.1	164.8	159.5	156.3	155.3	155.3
60°	178.7	179.8	176.5	172.3	168.1	160.6	154.2	150.0	146.8	145.7	145.7
61°	170.1	170.1	168.1	162.7	157.4	152.1	145.7	140.4	138.2	136.2	136.2
62°	162.7	160.6	159.5	154.2	148.9	142.6	137.2	131.8	128.7	126.5	127.6
63°	153.2	152.1	150.0	145.7	140.4	134.0	127.6	123.4	120.1	117.0	118.1
64°	145.7	144.6	141.5	137.2	131.8	125.6	119.2	114.8	112.8	109.5	108.4
65°	136.2	135.1	134.0	128.7	123.4	117.0	111.7	107.4	104.2	102.1	100.0
66°	127.6	128.7	126.5	122.3	115.9	110.6	103.1	98.9	96.8	93.6	91.5
67°	120.1	120.1	118.1	113.8	107.4	102.1	96.8	91.5	88.3	85.1	84.0
67.5°	115.9	115.9	113.8	108.4	104.2	97.8	92.5	88.3	84.0	81.9	79.8
68°	111.7	111.7	110.6	106.4	101.1	94.7	89.3	84.0	79.8	76.6	75.6
69°	104.2	105.3	103.1	98.9	93.6	87.2	81.9	77.6	73.4	70.3	68.1
70°	97.8	96.8	94.7	90.4	85.1	80.9	75.6	70.3	65.9	61.7	60.6
71°	89.3	89.3	87.2	84.0	78.7	73.4	68.1	63.9	59.5	54.2	53.1
72°	82.9	82.9	80.9	76.6	72.3	67.0	61.7	56.4	53.1	47.8	45.8
72.5°	78.7	79.8	77.6	73.4	69.2	62.8	58.4	54.2	48.9	44.7	42.5
73°	76.6	75.6	74.5	70.3	64.8	60.6	55.3	51.1	45.8	41.5	39.4



TEST NUMBER: P583856
 CATALOG NUMBER: HCC8W15D010SL-HM80520830-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	47.8	47.8	46.8	42.5	38.3	34.0	29.8	25.5	21.3	17.0	14.9
80°	33.0	34.0	31.9	29.8	26.6	22.3	18.1	14.9	10.6	8.6	6.4
82.5°	21.3	21.3	20.2	18.1	15.9	12.8	10.6	7.5	5.3	4.2	3.1
85°	10.6	11.7	10.6	9.5	7.5	6.4	5.3	3.1	2.2	1.1	1.1
87.5°	4.2	4.2	4.2	3.1	3.1	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: P583856

CATALOG NUMBER: HCC8W15D010SL-HM80520830-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9
2.5°	781.7	781.7	779.6	778.6	777.5	776.4	775.4	774.3	774.3	775.4
5°	775.4	773.2	769.0	767.9	764.7	763.6	761.6	760.5	761.6	760.5
7.5°	765.8	761.6	756.3	754.1	749.9	747.7	744.6	744.6	742.4	743.5
10°	753.0	746.6	740.2	736.0	732.8	729.6	727.5	725.4	724.3	724.3
12.5°	737.1	729.6	723.2	716.9	711.6	709.4	705.2	705.2	703.0	701.9
15°	719.0	709.4	701.9	695.6	691.3	687.1	683.8	681.8	679.6	679.6
17.5°	695.6	687.1	679.6	672.1	665.8	662.6	659.4	656.2	656.2	654.1
20°	670.1	660.5	654.1	646.6	641.3	636.0	631.8	631.8	629.6	630.7
22.5°	641.3	629.6	623.2	617.9	612.6	608.4	604.1	604.1	603.1	602.0
25°	609.5	599.8	592.4	586.0	582.9	578.6	577.6	575.4	574.3	574.3
27.5°	575.4	567.9	558.4	555.1	550.9	548.8	548.8	547.8	545.6	546.7
30°	539.2	530.7	525.4	523.3	519.0	519.0	517.9	515.9	515.9	516.9
32.5°	504.2	495.6	491.4	490.3	486.1	486.1	485.0	486.1	486.1	487.2
35°	465.9	458.4	457.3	454.2	453.1	453.1	453.1	455.2	457.3	454.2
37.5°	429.7	424.4	421.1	420.1	421.1	421.1	422.2	425.5	424.4	423.3
40°	392.5	388.3	386.1	386.1	388.3	390.3	390.3	393.6	394.6	393.6
42.5°	355.2	352.1	352.1	353.1	355.2	356.3	359.5	362.7	363.8	364.8
45°	320.2	320.2	320.2	321.3	322.2	324.4	328.6	331.9	332.9	334.0
47.5°	286.1	285.0	288.2	289.3	292.5	293.5	296.8	301.0	302.1	303.2
50°	254.3	256.3	257.4	260.5	262.7	262.7	266.9	269.1	272.3	272.3
52.5°	224.4	227.6	228.7	231.8	232.9	234.0	236.1	239.3	241.5	241.5
55°	197.9	198.9	201.0	202.1	205.3	206.3	208.5	209.5	212.7	211.6
56°	186.2	188.2	189.3	191.5	193.5	194.6	196.8	197.9	199.9	201.0
57°	175.4	176.5	179.8	180.9	182.9	182.9	184.0	187.1	187.1	188.2
58°	164.8	167.0	168.1	169.1	171.2	172.3	174.5	175.4	176.5	175.4
59°	155.3	156.3	157.4	157.4	159.5	159.5	162.7	164.8	165.9	165.9
60°	145.7	145.7	146.8	147.9	150.0	151.0	151.0	153.2	153.2	153.2
61°	136.2	136.2	137.2	138.2	139.3	139.3	141.5	141.5	142.6	143.6
62°	127.6	126.5	126.5	127.6	127.6	129.8	130.9	131.8	132.9	131.8
63°	118.1	117.0	117.0	117.0	117.0	119.2	119.2	120.1	122.3	121.2
64°	107.4	107.4	107.4	107.4	108.4	108.4	110.6	111.7	112.8	113.8
65°	100.0	97.8	96.8	96.8	97.8	98.9	100.0	101.1	102.1	102.1
66°	91.5	89.3	88.3	88.3	88.3	88.3	90.4	90.4	92.5	92.5
67°	81.9	79.8	78.7	77.6	77.6	77.6	80.9	79.8	79.8	79.8
67.5°	78.7	75.6	74.5	73.4	72.3	74.5	73.4	74.5	74.5	73.4
68°	74.5	72.3	70.3	68.1	68.1	68.1	69.2	70.3	69.2	68.1
69°	65.9	64.8	61.7	59.5	58.4	59.5	58.4	59.5	58.4	59.5
70°	58.4	55.3	52.1	51.1	50.0	50.0	50.0	48.9	50.0	48.9
71°	51.1	47.8	44.7	42.5	41.5	41.5	40.4	41.5	40.4	41.5
72°	43.6	40.4	36.2	34.0	34.0	34.0	34.0	33.0	34.0	33.0
72.5°	40.4	36.2	33.0	30.8	29.8	29.8	29.8	29.8	28.7	29.8
73°	37.2	33.0	28.7	27.6	27.6	27.6	26.6	25.5	26.6	26.6



TEST NUMBER: P583856
CATALOG NUMBER: HCC8W15D010SL-HM80520830-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	12.8	9.5	8.6	8.6	8.6	8.6	8.6	8.6	7.5	7.5
80°	5.3	4.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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°	69.2	69.2	67.0	63.9	58.4	53.1	48.9	44.7	39.4	34.0	31.9
75°	63.9	62.8	60.6	57.5	53.1	47.8	43.6	38.3	34.0	28.7	26.6

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°	30.8	25.5	23.4	21.3	21.3	21.3	20.2	20.2	20.2	21.3
75°	24.5	20.2	18.1	15.9	17.0	15.9	17.0	15.9	15.9	15.9

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

Scaled Data Report



(END OF REPORT)