

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: P583924

Luminaire Tested: **HCC8S15D010BZ-HM80520930-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583924
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-HM80520930-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

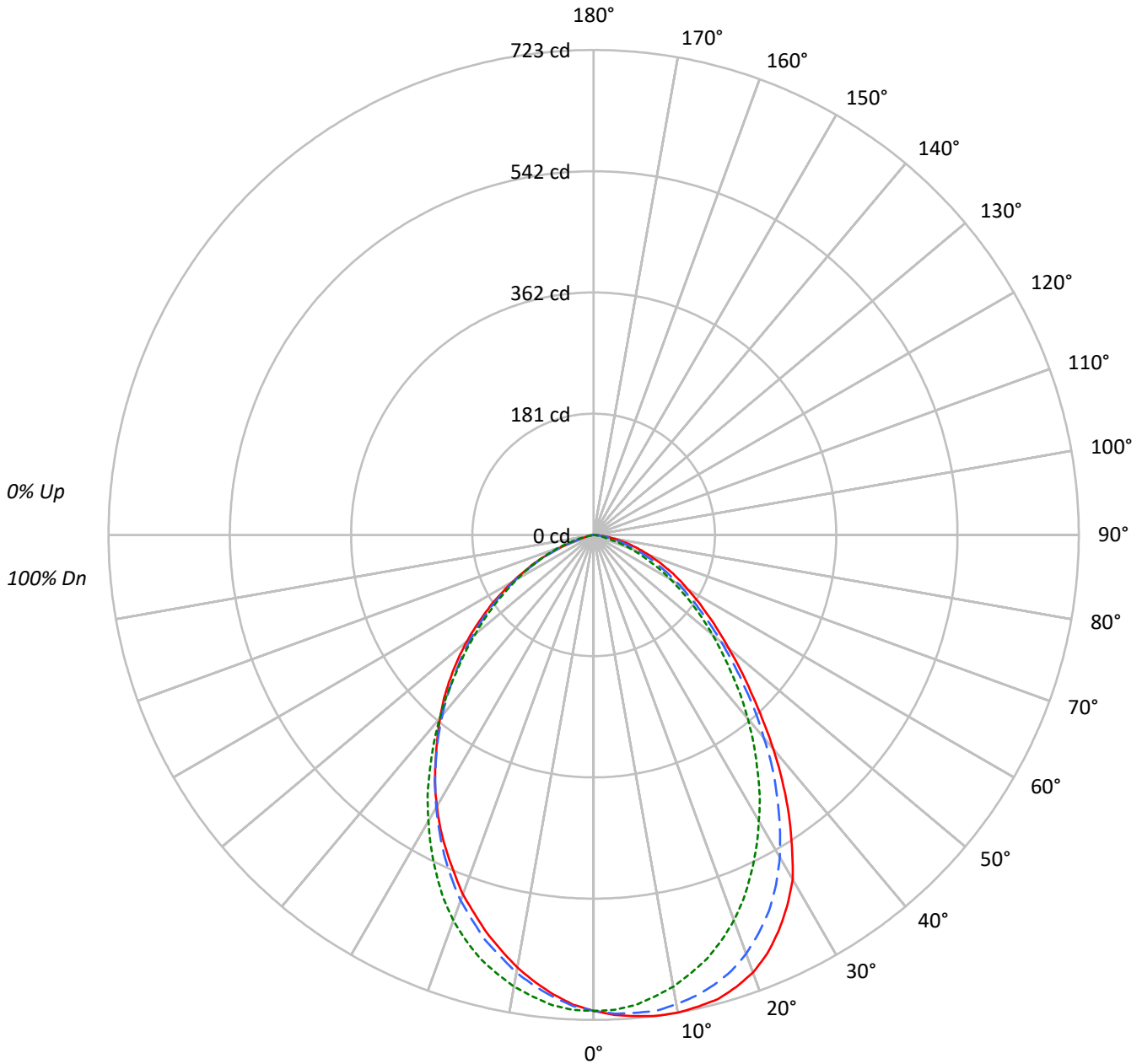
Lumens per Lamp: N/A
Luminaire Lumens: 1330.4 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P583924
CATALOG NUMBER: HCC8S15D010BZ-HM80520930-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P583924

CATALOG NUMBER: HCC8S15D010BZ-HM80520930-81RWWH

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°	21881	21881	21881
5°	22293	21785	21284
10°	22642	21408	20503
15°	22870	20872	19614
20°	22780	20067	18711
25°	22180	18907	17665
30°	21125	17533	16639
35°	19074	15999	15453
40°	16758	14363	14322
45°	14465	12620	13170
50°	12598	11072	11811
55°	11166	9613	10290
60°	9966	8122	8542
65°	8975	6596	6735
70°	7970	4941	3985
75°	6875	2859	1728
80°	5292	1030	515
85°	3397	354	354



TEST NUMBER: P583924
 CATALOG NUMBER: HCC8S15D010BZ-HM80520930-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	5.0
10°-20°	185.5	13.9
20°-30°	262.3	19.7
30°-40°	276.4	20.8
40°-50°	234.9	17.7
50°-60°	169.1	12.7
60°-70°	97.6	7.3
70°-80°	33.4	2.5
80°-90°	4.6	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°	514.4	38.7
0°-40°	790.8	59.4
0°-60°	1194.8	89.8
0°-90°	1330.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1330.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	710	710	710	710	710	
5°	720	715	704	691	688	69
15°	716	694	654	625	614	202
25°	652	618	556	527	519	299
35°	507	477	425	410	410	316
45°	332	316	289	291	302	258
55°	208	191	179	186	191	187
65°	123	106	90	88	92	122
75°	58	43	24	15	14	61
85°	10	6	1	1	1	13
90°	0	0	0	0	0	

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



TEST NUMBER: P583924

CATALOG NUMBER: HCC8S15D010BZ-HM80520930-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6
2.5°	716.4	717.3	716.4	716.4	715.4	714.4	713.5	712.5	710.6	708.7	708.7
5°	720.2	722.2	720.2	720.2	717.3	715.4	713.5	710.6	706.7	703.8	703.8
7.5°	723.1	723.1	723.1	720.2	718.3	715.4	710.6	705.8	700.9	696.1	694.2
10°	723.1	723.1	722.2	718.3	716.4	710.6	705.8	699.0	692.4	685.6	683.7
12.5°	720.2	721.2	719.3	715.4	710.6	703.8	697.1	688.5	680.8	673.1	669.3
15°	716.4	715.4	713.5	708.7	702.9	694.2	687.6	677.9	667.3	657.7	653.8
17.5°	706.7	706.7	703.8	699.0	691.4	681.8	671.2	660.6	649.0	638.5	633.7
20°	694.2	694.2	690.5	684.7	677.0	664.4	652.9	640.5	627.0	616.4	611.5
22.5°	676.0	677.0	672.1	665.4	656.7	642.4	630.8	615.4	601.9	589.5	585.6
25°	651.9	653.8	649.0	642.4	630.8	618.3	603.8	589.5	574.1	561.5	555.7
27.5°	624.1	625.0	620.2	613.5	601.9	588.5	574.1	558.6	544.3	530.8	525.0
30°	593.3	589.5	587.6	578.9	566.4	554.8	538.5	526.0	510.6	499.1	492.4
32.5°	550.1	551.9	546.2	539.5	529.8	516.3	502.8	488.5	474.0	465.4	460.6
35°	506.7	508.6	505.7	499.1	488.5	476.9	463.4	453.0	440.4	429.8	425.0
37.5°	461.5	461.5	459.6	455.7	448.1	437.5	424.0	413.4	403.0	394.3	391.4
40°	416.3	414.4	413.4	410.5	403.9	394.3	385.6	376.9	366.3	360.5	356.8
42.5°	372.1	372.1	370.2	367.3	360.5	355.8	347.2	337.5	329.8	324.0	324.0
45°	331.7	332.7	329.8	327.9	324.0	316.3	308.7	302.0	295.2	291.4	289.4
47.5°	296.2	296.2	293.3	291.4	287.5	280.8	274.0	268.2	263.4	260.6	259.7
50°	262.6	262.6	262.6	257.7	252.9	248.1	243.3	236.5	233.6	231.7	230.8
52.5°	233.6	232.7	232.7	228.8	224.0	218.2	213.5	207.7	204.8	202.9	203.9
55°	207.7	207.7	206.8	202.0	197.1	191.4	186.5	181.7	179.8	177.9	178.8
56°	197.1	197.1	196.2	192.3	186.5	181.7	175.9	171.1	168.2	169.2	169.2
57°	189.4	187.5	187.5	182.7	177.9	171.1	166.4	161.6	159.7	158.7	158.7
58°	179.8	178.8	177.9	173.0	168.2	162.6	157.7	152.9	150.0	150.0	149.1
59°	170.1	170.1	168.2	164.5	159.7	153.9	149.1	144.2	141.3	140.4	140.4
60°	161.6	162.6	159.7	155.8	152.0	145.2	139.4	135.6	132.7	131.7	131.7
61°	153.9	153.9	152.0	147.1	142.3	137.5	131.7	126.9	125.0	123.0	123.0
62°	147.1	145.2	144.2	139.4	134.6	128.8	124.0	119.3	116.4	114.5	115.4
63°	138.5	137.5	135.6	131.7	126.9	121.1	115.4	111.6	108.7	105.8	106.8
64°	131.7	130.7	127.9	124.0	119.3	113.5	107.7	103.9	101.9	99.1	98.1
65°	123.0	122.1	121.1	116.4	111.6	105.8	101.0	97.1	94.2	92.3	90.4
66°	115.4	116.4	114.5	110.6	104.8	100.0	93.3	89.4	87.5	84.6	82.7
67°	108.7	108.7	106.8	102.9	97.1	92.3	87.5	82.7	79.8	76.9	75.9
67.5°	104.8	104.8	102.9	98.1	94.2	88.4	83.6	79.8	75.9	74.0	72.1
68°	101.0	101.0	100.0	96.2	91.3	85.6	80.7	75.9	72.1	69.3	68.3
69°	94.2	95.2	93.3	89.4	84.6	78.8	74.0	70.3	66.4	63.5	61.6
70°	88.4	87.5	85.6	81.7	76.9	73.0	68.3	63.5	59.6	55.8	54.8
71°	80.7	80.7	78.8	75.9	71.2	66.4	61.6	57.7	53.9	49.0	48.1
72°	75.0	75.0	73.0	69.3	65.4	60.6	55.8	51.0	48.1	43.3	41.3
72.5°	71.2	72.1	70.3	66.4	62.5	56.8	52.9	49.0	44.2	40.4	38.4
73°	69.3	68.3	67.4	63.5	58.7	54.8	50.0	46.2	41.3	37.5	35.5



TEST NUMBER: P583924
 CATALOG NUMBER: HCC8S15D010BZ-HM80520930-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	43.3	43.3	42.3	38.4	34.6	30.7	26.9	23.1	19.3	15.4	13.5
80°	29.8	30.7	28.8	26.9	24.0	20.2	16.4	13.5	9.6	7.7	5.8
82.5°	19.3	19.3	18.3	16.4	14.5	11.6	9.6	6.7	4.8	3.9	2.9
85°	9.6	10.6	9.6	8.7	6.7	5.8	4.8	2.9	1.9	1.0	1.0
87.5°	3.9	3.9	3.9	2.9	2.9	1.9	1.0	1.0	1.0	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	0.0

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



TEST NUMBER: P583924

CATALOG NUMBER: HCC8S15D010BZ-HM80520930-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6
2.5°	706.7	706.7	704.8	703.8	702.9	701.9	700.9	700.0	700.0	700.9
5°	700.9	699.0	695.2	694.2	691.4	690.5	688.5	687.6	688.5	687.6
7.5°	692.4	688.5	683.7	681.8	677.9	676.0	673.1	673.1	671.2	672.1
10°	680.8	675.0	669.3	665.4	662.5	659.6	657.7	655.8	654.8	654.8
12.5°	666.4	659.6	653.8	648.0	643.3	641.4	637.6	637.6	635.6	634.7
15°	650.0	641.4	634.7	628.9	625.0	621.2	618.3	616.4	614.4	614.4
17.5°	628.9	621.2	614.4	607.7	601.9	599.0	596.2	593.3	593.3	591.4
20°	605.8	597.2	591.4	584.7	579.8	575.0	571.2	571.2	569.2	570.2
22.5°	579.8	569.2	563.5	558.6	553.8	550.1	546.2	546.2	545.3	544.3
25°	550.9	542.4	535.6	529.8	526.9	523.1	522.1	520.2	519.2	519.2
27.5°	520.2	513.5	504.8	502.0	498.1	496.2	496.2	495.3	493.3	494.3
30°	487.5	479.8	475.0	473.1	469.2	469.2	468.3	466.3	466.3	467.3
32.5°	455.7	448.1	444.3	443.3	439.5	439.5	438.5	439.5	439.5	440.4
35°	421.1	414.4	413.4	410.5	409.6	409.6	409.6	411.5	413.4	410.5
37.5°	388.5	383.7	380.8	379.8	380.8	380.8	381.7	384.6	383.7	382.7
40°	354.9	351.0	349.1	349.1	351.0	352.9	352.9	355.8	356.8	355.8
42.5°	321.1	318.2	318.2	319.2	321.1	322.1	325.0	327.9	328.8	329.8
45°	289.4	289.4	289.4	290.4	291.4	293.3	297.2	300.0	301.0	302.0
47.5°	258.7	257.7	260.6	261.6	264.4	265.3	268.2	272.1	273.1	274.0
50°	229.8	231.7	232.7	235.6	237.5	237.5	241.4	243.3	246.2	246.2
52.5°	202.9	205.8	206.8	209.7	210.6	211.6	213.5	216.3	218.2	218.2
55°	178.8	179.8	181.7	182.7	185.6	186.5	188.5	189.4	192.3	191.4
56°	168.2	170.1	171.1	173.0	175.0	175.9	177.9	178.8	180.8	181.7
57°	158.7	159.7	162.6	163.5	165.4	165.4	166.4	169.2	169.2	170.1
58°	149.1	151.0	152.0	152.9	154.8	155.8	157.7	158.7	159.7	158.7
59°	140.4	141.3	142.3	142.3	144.2	144.2	147.1	149.1	150.0	150.0
60°	131.7	131.7	132.7	133.6	135.6	136.5	136.5	138.5	138.5	138.5
61°	123.0	123.0	124.0	125.0	125.9	125.9	127.9	127.9	128.8	129.8
62°	115.4	114.5	114.5	115.4	115.4	117.4	118.3	119.3	120.1	119.3
63°	106.8	105.8	105.8	105.8	105.8	107.7	107.7	108.7	110.6	109.7
64°	97.1	97.1	97.1	97.1	98.1	98.1	100.0	101.0	101.9	102.9
65°	90.4	88.4	87.5	87.5	88.4	89.4	90.4	91.3	92.3	92.3
66°	82.7	80.7	79.8	79.8	79.8	79.8	81.7	81.7	83.6	83.6
67°	74.0	72.1	71.2	70.3	70.3	70.3	73.0	72.1	72.1	72.1
67.5°	71.2	68.3	67.4	66.4	65.4	67.4	66.4	67.4	67.4	66.4
68°	67.4	65.4	63.5	61.6	61.6	61.6	62.5	63.5	62.5	61.6
69°	59.6	58.7	55.8	53.9	52.9	53.9	52.9	53.9	52.9	53.9
70°	52.9	50.0	47.1	46.2	45.2	45.2	45.2	44.2	45.2	44.2
71°	46.2	43.3	40.4	38.4	37.5	37.5	36.5	37.5	36.5	37.5
72°	39.4	36.5	32.7	30.7	30.7	30.7	30.7	29.8	30.7	29.8
72.5°	36.5	32.7	29.8	27.8	26.9	26.9	26.9	26.9	25.9	26.9
73°	33.6	29.8	25.9	24.9	24.9	24.9	24.0	23.1	24.0	24.0



TEST NUMBER: P583924
CATALOG NUMBER: HCC8S15D010BZ-HM80520930-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	11.6	8.7	7.7	7.7	7.7	7.7	7.7	7.7	6.7	6.7
80°	4.8	3.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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°	62.5	62.5	60.6	57.7	52.9	48.1	44.2	40.4	35.5	30.7	28.8
75°	57.7	56.8	54.8	51.9	48.1	43.3	39.4	34.6	30.7	25.9	24.0

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°	27.8	23.1	21.2	19.3	19.3	19.3	18.3	18.3	18.3	19.3
75°	22.2	18.3	16.4	14.5	15.4	14.5	15.4	14.5	14.5	14.5

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

Scaled Data Report



(END OF REPORT)