

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: P583862

Luminaire Tested: **HCC8W15D010MW-HM80520830-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W15D010MW-HM80520830-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

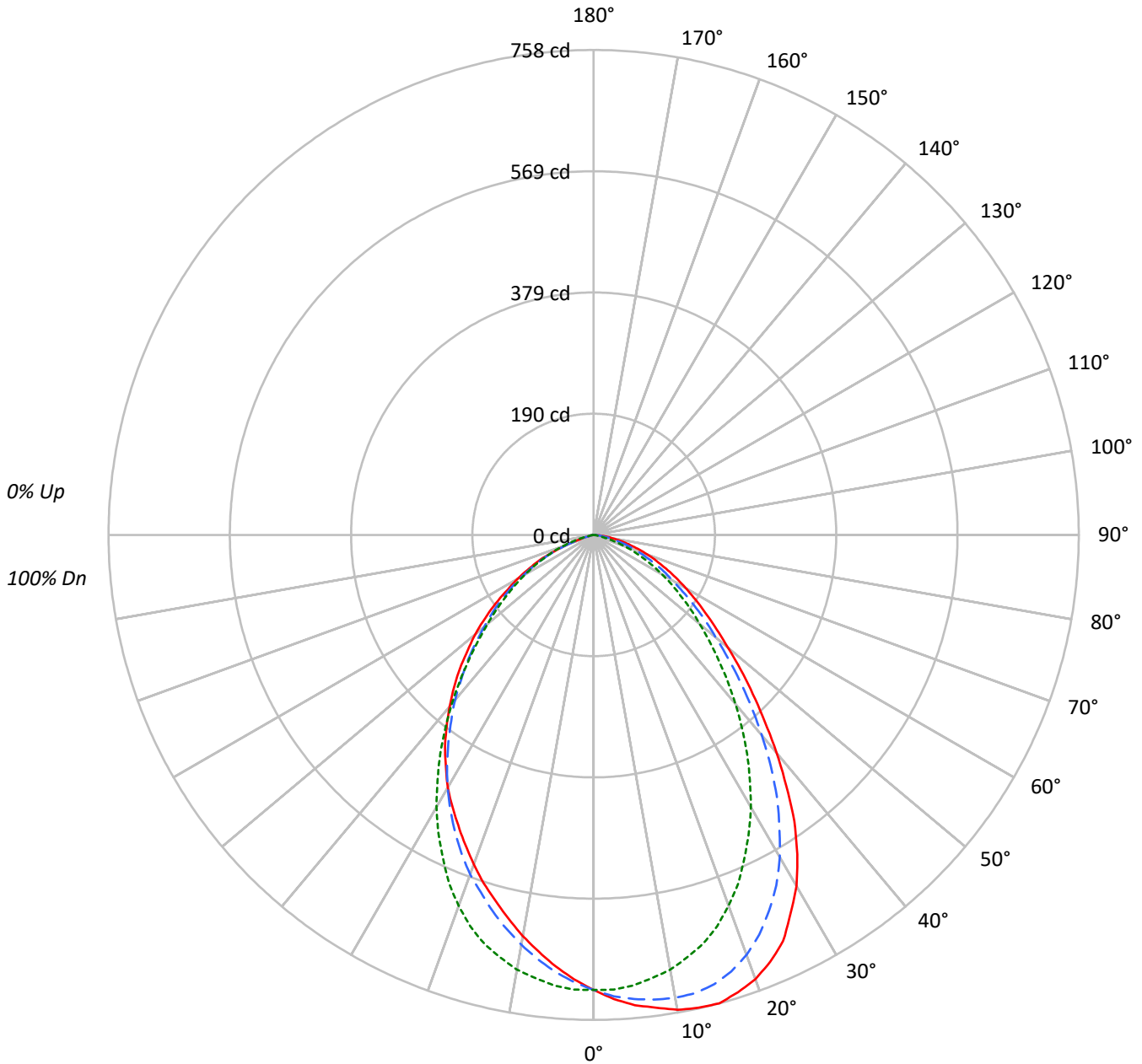
Lumens per Lamp: N/A
Luminaire Lumens: 1324.8 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P583862
CATALOG NUMBER: HCC8W15D010MW-HM80520830-81WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P583862

CATALOG NUMBER: HCC8W15D010MW-HM80520830-81WWBB

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	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67								
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59								
5	82	70	63	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53								
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	58	53	49	47								
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43								
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39								
9	62	50	43	37	61	50	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	47	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	21931	21931	21931
5°	22838	21885	20962
10°	23600	21605	19939
15°	24195	21111	18902
20°	24247	20234	17970
25°	23837	18955	17036
30°	22560	17490	16240
35°	20573	15728	15246
40°	17889	13863	14081
45°	15346	12006	12891
50°	13106	10353	11581
55°	11483	8914	10059
60°	10225	7604	8455
65°	9077	6209	6749
70°	8051	4598	3832
75°	6720	2407	1132
80°	5292	746	195
85°	3750	389	0



TEST NUMBER: P583862
 CATALOG NUMBER: HCC8W15D010MW-HM80520830-81WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	5.1
10°-20°	187.8	14.2
20°-30°	265.9	20.1
30°-40°	278.1	21.0
40°-50°	232.0	17.5
50°-60°	164.5	12.4
60°-70°	94.7	7.2
70°-80°	30.5	2.3
80°-90°	4.2	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°	520.7	39.3
0°-40°	798.8	60.3
0°-60°	1195.3	90.2
0°-90°	1324.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1324.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	711	711	711	711	711	
5°	738	728	707	686	677	71
15°	758	727	661	609	592	213
25°	701	648	557	512	501	320
35°	546	499	418	396	405	339
45°	352	323	275	278	296	273
55°	214	191	166	174	187	193
65°	124	104	85	85	92	124
75°	56	42	20	10	10	61
85°	11	5	1	0	0	13
90°	0	0	0	0	0	

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



TEST NUMBER: P583862

CATALOG NUMBER: HCC8W15D010MW-HM80520830-81WWBB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2
2.5°	726.1	725.0	724.0	725.0	724.0	725.0	724.0	724.0	722.9	721.8	721.8
5°	737.8	736.7	736.7	736.7	735.7	734.6	734.6	733.5	731.4	730.4	728.2
7.5°	745.2	746.3	746.3	746.3	744.2	744.2	742.0	739.9	737.8	735.7	732.5
10°	753.7	753.7	752.6	751.6	749.5	748.4	747.3	745.2	742.0	737.8	734.6
12.5°	757.0	757.0	755.9	753.7	752.6	751.6	750.6	747.3	743.1	737.8	733.5
15°	757.9	755.9	754.8	753.7	751.6	748.4	748.4	744.2	738.9	732.5	727.1
17.5°	749.5	750.6	748.4	746.3	743.1	741.0	737.8	734.6	728.2	720.8	715.4
20°	738.9	737.8	736.7	733.5	729.3	728.2	725.0	719.7	714.4	705.9	698.4
22.5°	721.8	720.8	718.7	716.5	712.3	710.1	707.0	700.6	693.1	684.7	676.1
25°	700.6	698.4	695.3	691.1	687.8	685.6	681.4	675.0	666.6	657.0	648.5
27.5°	666.6	669.7	667.6	661.3	658.1	653.8	652.7	644.2	636.8	627.2	617.7
30°	633.6	633.6	630.5	627.2	621.9	618.8	614.4	608.0	600.7	589.0	581.5
32.5°	592.1	591.1	586.8	585.8	581.5	575.1	574.1	565.5	558.2	549.6	540.1
35°	546.5	544.3	540.1	536.8	534.8	531.5	528.4	520.9	513.5	505.0	498.6
37.5°	494.3	494.3	493.3	487.9	485.9	483.7	480.6	473.1	468.9	460.3	453.9
40°	444.4	443.3	440.1	439.1	436.9	433.8	431.6	427.4	421.0	414.6	408.3
42.5°	395.5	396.6	392.2	393.3	389.1	386.9	386.0	379.6	376.3	369.9	364.6
45°	351.9	350.8	348.7	347.6	345.5	343.4	341.3	338.1	332.7	326.3	323.2
47.5°	311.5	308.2	308.2	307.3	306.2	302.0	300.9	297.6	294.5	288.1	283.9
50°	273.2	273.2	273.2	272.2	269.0	267.9	265.8	262.6	259.4	255.1	248.7
52.5°	242.3	242.3	242.3	241.4	237.0	236.1	235.0	230.6	226.4	223.3	218.9
55°	213.6	214.7	213.6	211.6	208.3	208.3	205.2	203.0	198.8	195.6	191.4
57.5°	189.2	189.2	187.1	186.1	183.9	182.8	180.8	178.6	173.3	170.1	164.7
60°	165.8	164.7	164.7	162.7	160.5	158.5	157.4	154.1	152.1	146.6	142.4
62.5°	144.6	144.6	142.4	142.4	138.2	138.2	137.1	134.0	130.7	125.4	123.3
65°	124.4	124.4	123.3	122.3	119.1	118.0	116.9	113.8	110.6	107.4	104.2
67.5°	106.3	106.3	104.2	103.1	101.0	99.9	97.8	95.7	92.5	89.3	86.2
70°	89.3	88.2	87.1	86.2	84.0	82.9	80.7	78.7	75.4	73.4	70.1
72.5°	72.3	72.3	71.2	69.0	68.1	67.0	65.9	63.7	60.6	57.4	55.3
75°	56.4	56.4	56.4	54.2	52.1	51.0	51.0	48.9	46.8	43.6	41.5
77.5°	43.6	42.5	41.5	41.5	39.3	38.3	37.2	36.2	32.9	31.9	29.8
80°	29.8	30.8	29.8	28.7	27.6	26.6	26.6	24.5	23.4	21.2	19.2
82.5°	20.2	19.2	19.2	18.1	18.1	17.0	17.0	14.9	13.9	12.8	11.7
85°	10.6	10.6	9.5	9.5	9.5	8.6	8.6	7.5	7.5	6.4	5.3
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.2	2.2	2.2
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: P583862

CATALOG NUMBER: HCC8W15D010MW-HM80520830-81WWBB

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2
2.5°	720.8	718.7	717.6	717.6	716.5	715.4	714.4	713.4	711.2	711.2	709.1
5°	726.1	724.0	722.9	719.7	717.6	717.6	713.4	712.3	709.1	707.0	704.8
7.5°	730.4	726.1	722.9	719.7	717.6	715.4	711.2	707.0	702.8	698.4	696.4
10°	730.4	726.1	720.8	715.4	713.4	711.2	705.9	699.5	694.2	690.0	684.7
12.5°	728.2	721.8	715.4	711.2	707.0	703.7	697.3	691.1	684.7	676.1	671.9
15°	721.8	713.4	707.0	699.5	696.4	691.1	685.6	676.1	668.7	661.3	655.9
17.5°	709.1	698.4	691.1	683.6	678.3	675.0	666.6	658.1	649.5	641.1	634.7
20°	690.0	680.3	671.9	662.3	658.1	653.8	643.2	634.7	626.1	616.6	610.2
22.5°	666.6	657.0	645.3	637.8	631.4	626.1	616.6	607.1	598.5	590.0	581.5
25°	637.8	628.3	617.7	606.0	601.7	596.4	585.8	576.2	566.6	557.1	549.6
27.5°	607.1	594.3	585.8	573.0	568.8	563.5	551.8	541.2	532.6	525.1	516.7
30°	569.8	560.2	548.5	536.8	532.6	527.3	517.7	508.1	499.7	491.2	482.6
32.5°	529.5	519.8	508.1	499.7	493.3	489.0	479.5	470.9	462.5	453.9	446.5
35°	486.9	476.2	467.8	459.2	453.9	448.6	439.1	431.6	425.2	417.8	410.3
37.5°	443.3	435.8	427.4	417.8	412.5	408.3	400.8	392.2	386.9	380.5	375.2
40°	400.8	392.2	384.9	376.3	372.1	368.9	361.5	355.1	349.8	344.4	341.3
42.5°	357.2	349.8	342.3	337.0	333.8	330.7	325.4	317.9	314.6	309.3	306.2
45°	316.8	310.4	305.1	297.6	295.6	293.4	287.0	281.7	278.5	275.3	273.2
47.5°	278.5	274.3	267.9	263.7	260.4	258.4	254.1	249.8	246.7	244.5	242.3
50°	245.6	240.3	236.1	231.7	229.7	226.4	222.2	220.0	218.0	215.8	215.8
52.5°	214.7	209.4	205.2	202.0	199.9	197.7	194.5	193.5	191.4	191.4	190.3
55°	186.1	182.8	178.6	174.4	173.3	172.2	170.1	168.0	166.9	165.8	166.9
57.5°	161.6	158.5	154.1	151.0	149.9	148.8	147.7	145.7	144.6	144.6	144.6
60°	139.3	136.0	132.9	129.7	129.7	127.6	126.5	125.4	124.4	123.3	123.3
62.5°	119.1	115.9	112.7	110.6	109.5	108.4	106.3	105.2	104.2	104.2	103.1
65°	101.0	96.8	95.7	92.5	91.5	90.4	89.3	87.1	86.2	85.1	84.0
67.5°	82.9	80.7	77.6	75.4	74.5	73.4	72.3	70.1	69.0	68.1	65.9
70°	67.0	64.8	62.8	60.6	59.5	58.4	56.4	54.2	53.1	51.0	47.8
72.5°	52.1	50.0	47.8	45.7	44.7	43.6	41.5	39.3	37.2	35.1	32.9
75°	39.3	37.2	34.0	31.9	30.8	30.8	27.6	25.5	23.4	20.2	18.1
77.5°	27.6	24.5	23.4	21.2	20.2	18.1	15.9	13.9	11.7	10.6	8.6
80°	18.1	15.9	13.9	12.8	11.7	10.6	9.5	7.5	5.3	4.2	3.1
82.5°	10.6	9.5	8.6	7.5	6.4	5.3	4.2	4.2	3.1	2.2	1.1
85°	5.3	4.2	3.1	3.1	2.2	2.2	2.2	1.1	1.1	1.1	1.1
87.5°	2.2	1.1	1.1	1.1	1.1	1.1	1.1	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	0.0

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



TEST NUMBER: P583862

CATALOG NUMBER: HCC8W15D010MW-HM80520830-81WWBB

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2
2.5°	708.1	707.0	705.9	704.8	704.8	702.8	702.8	701.7	699.5	698.4	698.4
5°	701.7	698.4	696.4	695.3	694.2	691.1	690.0	687.8	685.6	683.6	682.5
7.5°	692.0	686.7	684.7	683.6	680.3	677.2	675.0	671.9	668.7	665.5	664.4
10°	680.3	675.0	669.7	667.6	664.4	662.3	658.1	653.8	650.6	647.4	644.2
12.5°	665.5	659.1	653.8	651.7	648.5	644.2	637.8	635.8	630.5	628.3	624.1
15°	648.5	641.1	635.8	632.5	629.4	623.0	618.8	614.4	609.1	607.1	602.7
17.5°	627.2	618.8	613.5	610.2	608.0	602.7	596.4	591.1	585.8	583.6	580.4
20°	601.7	596.4	589.0	585.8	583.6	577.3	570.9	568.8	564.5	560.2	557.1
22.5°	573.0	567.7	560.2	557.1	556.0	550.7	545.4	542.1	539.0	535.7	532.6
25°	543.2	536.8	530.4	528.4	526.2	522.0	517.7	515.6	512.4	510.3	508.1
27.5°	511.4	505.0	499.7	496.5	494.3	491.2	489.0	486.9	484.8	482.6	481.6
30°	477.3	470.9	466.7	464.5	462.5	461.4	458.1	457.2	456.1	453.9	455.0
32.5°	443.3	438.0	433.8	430.5	430.5	428.4	427.4	427.4	426.3	426.3	426.3
35°	406.1	403.0	399.7	398.6	397.7	396.6	395.5	396.6	395.5	396.6	397.7
37.5°	372.1	368.9	366.8	365.7	364.6	365.7	364.6	364.6	365.7	367.9	368.9
40°	337.0	334.9	332.7	333.8	332.7	332.7	332.7	336.0	337.0	338.1	339.1
42.5°	304.0	302.0	300.9	300.9	302.0	300.9	302.9	304.0	306.2	309.3	311.5
45°	272.2	271.1	271.1	272.2	271.1	273.2	273.2	275.3	278.5	280.6	282.8
47.5°	242.3	242.3	242.3	243.4	243.4	244.5	246.7	247.7	249.8	252.0	254.1
50°	214.7	215.8	216.9	216.9	216.9	218.9	221.1	222.2	223.3	224.4	227.5
52.5°	190.3	191.4	191.4	192.4	193.5	194.5	195.6	197.7	198.8	200.9	202.0
55°	166.9	166.9	169.1	170.1	170.1	170.1	172.2	172.2	174.4	175.4	177.5
57.5°	144.6	145.7	145.7	146.6	146.6	147.7	148.8	149.9	151.0	152.1	153.0
60°	123.3	123.3	123.3	124.4	125.4	126.5	125.4	127.6	127.6	129.7	130.7
62.5°	103.1	104.2	104.2	104.2	104.2	104.2	104.2	105.2	106.3	107.4	108.4
65°	84.0	84.0	84.0	82.9	84.0	82.9	84.0	85.1	85.1	86.2	87.1
67.5°	64.8	64.8	62.8	62.8	63.7	63.7	63.7	63.7	62.8	64.8	64.8
70°	46.8	45.7	44.7	43.6	43.6	42.5	42.5	41.5	41.5	41.5	41.5
72.5°	30.8	28.7	26.6	25.5	24.5	24.5	22.3	21.2	22.3	22.3	22.3
75°	15.9	13.9	12.8	11.7	10.6	10.6	9.5	9.5	9.5	9.5	9.5
77.5°	6.4	5.3	4.2	4.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1
80°	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	0.0	0.0	1.1	0.0	1.1	1.1	1.1	0.0	0.0	0.0
87.5°	0.0	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	0.0

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



TEST NUMBER: P583862

CATALOG NUMBER: HCC8W15D010MW-HM80520830-81WWBB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2
2.5°	697.3	697.3	696.4	697.3	695.3	696.4	695.3	695.3
5°	681.4	679.3	679.3	679.3	678.3	678.3	677.2	677.2
7.5°	662.3	661.3	660.2	659.1	658.1	657.0	657.0	657.0
10°	643.2	641.1	641.1	640.0	637.8	636.8	636.8	636.8
12.5°	620.8	619.7	618.8	618.8	614.4	615.5	614.4	614.4
15°	599.6	598.5	598.5	595.4	593.2	593.2	593.2	592.1
17.5°	577.3	576.2	575.1	573.0	570.9	570.9	569.8	570.9
20°	553.8	552.9	550.7	550.7	549.6	548.5	546.5	547.6
22.5°	530.4	528.4	527.3	527.3	526.2	526.2	524.1	524.1
25°	506.0	505.0	503.9	505.0	502.8	502.8	500.7	500.7
27.5°	480.6	479.5	479.5	479.5	478.4	479.5	478.4	478.4
30°	455.0	455.0	453.9	453.9	455.0	453.9	455.0	456.1
32.5°	427.4	427.4	428.4	428.4	429.5	429.5	429.5	429.5
35°	398.6	400.8	400.8	401.9	403.0	403.9	403.9	405.0
37.5°	372.1	373.2	374.2	375.2	377.4	377.4	377.4	377.4
40°	343.4	344.4	346.6	345.5	349.8	350.8	349.8	349.8
42.5°	313.7	315.7	316.8	319.0	320.0	322.1	323.2	323.2
45°	285.9	287.0	289.2	291.2	292.3	295.6	295.6	295.6
47.5°	257.3	259.4	260.4	262.6	263.7	266.8	267.9	266.8
50°	229.7	231.7	233.9	233.9	237.0	238.1	240.3	241.4
52.5°	203.0	204.1	206.3	207.3	209.4	211.6	212.6	213.6
55°	177.5	178.6	180.8	180.8	183.9	185.0	187.1	187.1
57.5°	154.1	155.2	157.4	156.3	158.5	160.5	160.5	159.4
60°	131.8	131.8	131.8	134.0	135.0	136.0	137.1	137.1
62.5°	108.4	110.6	111.6	111.6	112.7	113.8	113.8	112.7
65°	87.1	89.3	90.4	90.4	91.5	91.5	91.5	92.5
67.5°	65.9	65.9	65.9	67.0	65.9	65.9	65.9	65.9
70°	41.5	41.5	41.5	41.5	40.4	41.5	41.5	42.5
72.5°	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3
75°	9.5	9.5	9.5	10.6	9.5	9.5	9.5	9.5
77.5°	4.2	3.1	4.2	4.2	3.1	3.1	3.1	3.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	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

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



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



(END OF REPORT)