

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: P583913

Luminaire Tested: **HCC8W15D010BZ-HM80520927-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583913
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: HCC8W15D010BZ-HM80520927-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

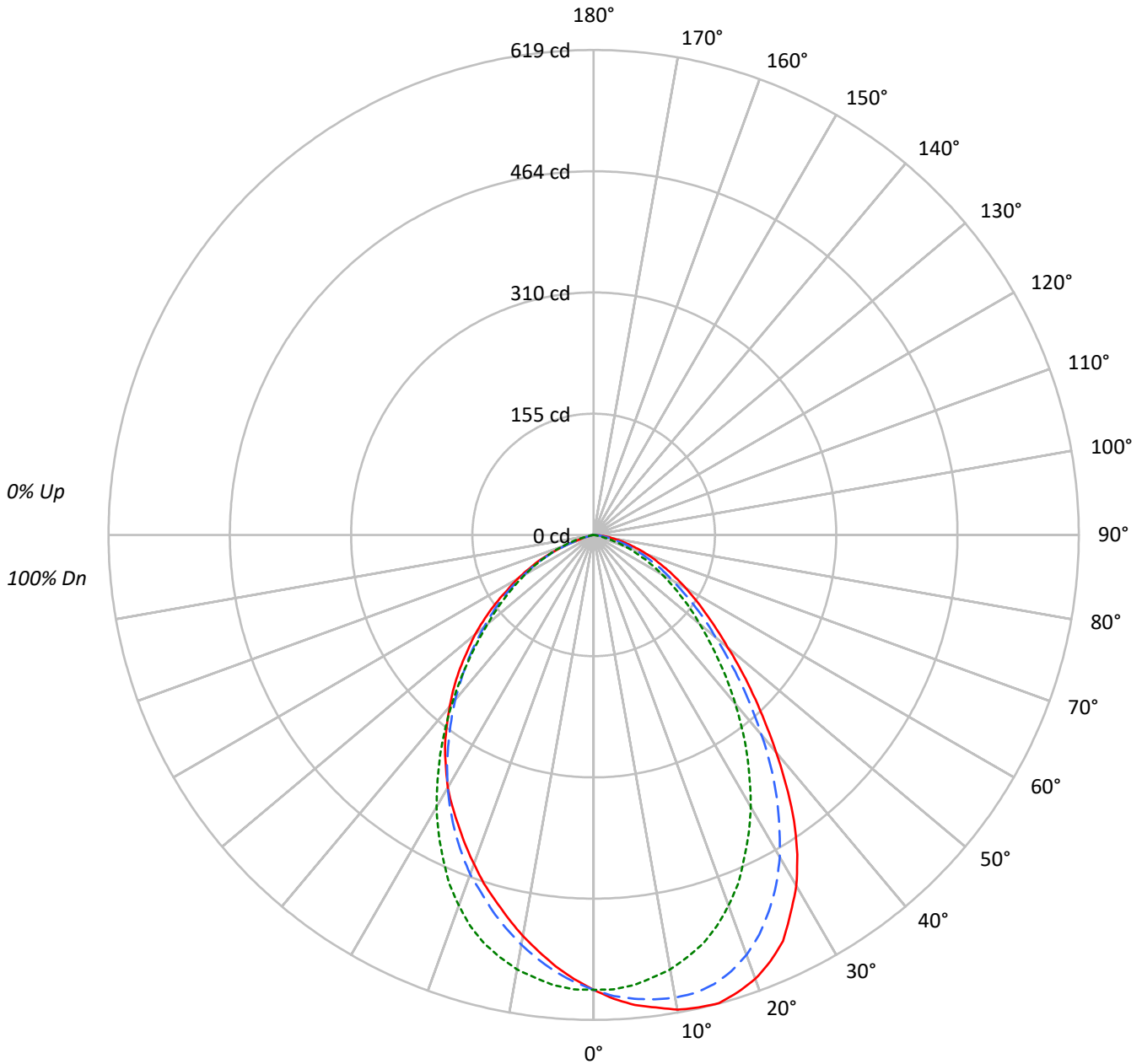
Lumens per Lamp: N/A
Luminaire Lumens: 1081.5 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): NR
Input Current (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: P583913
CATALOG NUMBER: HCC8W15D010BZ-HM80520927-81WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P583913

CATALOG NUMBER: HCC8W15D010BZ-HM80520927-81WWBB

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°	17904	17904	17904
5°	18644	17864	17115
10°	19266	17635	16276
15°	19755	17233	15432
20°	19791	16516	14665
25°	19458	15474	13906
30°	18416	14275	13256
35°	16793	12837	12449
40°	14600	11315	11497
45°	12529	9799	10519
50°	10698	8453	9451
55°	9381	7279	8215
60°	8350	6204	6901
65°	7413	5064	5516
70°	6573	3760	3129
75°	5481	1966	929
80°	4315	622	142
85°	3078	283	0



TEST NUMBER: P583913
 CATALOG NUMBER: HCC8W15D010BZ-HM80520927-81WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	5.1
10°-20°	153.3	14.2
20°-30°	217.0	20.1
30°-40°	227.1	21.0
40°-50°	189.4	17.5
50°-60°	134.3	12.4
60°-70°	77.4	7.2
70°-80°	24.9	2.3
80°-90°	3.4	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°	425.1	39.3
0°-40°	652.1	60.3
0°-60°	975.8	90.2
0°-90°	1081.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1081.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	581	581	581	581	581	
5°	602	594	577	560	553	58
15°	619	594	540	497	483	174
25°	572	529	455	418	409	261
35°	446	407	341	323	331	277
45°	287	264	225	227	241	223
55°	174	156	135	142	153	158
65°	102	85	69	69	76	101
75°	46	34	16	8	8	50
85°	9	4	1	0	0	11
90°	0	0	0	0	0	

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



TEST NUMBER: P583913

CATALOG NUMBER: HCC8W15D010BZ-HM80520927-81WWBB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6
2.5°	592.7	591.9	591.1	591.9	591.1	591.9	591.1	591.1	590.1	589.2	589.2
5°	602.3	601.4	601.4	601.4	600.6	599.7	599.7	598.8	597.1	596.2	594.4
7.5°	608.4	609.2	609.2	609.2	607.4	607.4	605.8	604.1	602.3	600.6	597.9
10°	615.3	615.3	614.4	613.6	611.9	610.9	610.1	608.4	605.8	602.3	599.7
12.5°	617.9	617.9	617.1	615.3	614.4	613.6	612.7	610.1	606.6	602.3	598.8
15°	618.8	617.1	616.2	615.3	613.6	610.9	610.9	607.4	603.1	597.9	593.6
17.5°	611.9	612.7	610.9	609.2	606.6	604.9	602.3	599.7	594.4	588.4	584.1
20°	603.1	602.3	601.4	598.8	595.4	594.4	591.9	587.6	583.2	576.2	570.2
22.5°	589.2	588.4	586.7	584.9	581.4	579.7	577.1	571.9	565.9	558.9	552.0
25°	571.9	570.2	567.6	564.1	561.5	559.7	556.3	551.0	544.2	536.3	529.4
27.5°	544.2	546.7	545.0	539.8	537.2	533.7	532.9	525.9	519.8	512.0	504.2
30°	517.2	517.2	514.7	512.0	507.7	505.1	501.6	496.5	490.3	480.8	474.8
32.5°	483.4	482.5	479.1	478.1	474.8	469.5	468.6	461.8	455.6	448.7	440.9
35°	446.1	444.3	440.9	438.3	436.6	433.9	431.3	425.2	419.2	412.2	407.0
37.5°	403.6	403.6	402.7	398.4	396.6	394.9	392.2	386.2	382.7	375.8	370.5
40°	362.7	361.9	359.3	358.4	356.7	354.0	352.3	348.8	343.7	338.5	333.3
42.5°	322.8	323.7	320.3	321.1	317.6	316.0	315.0	309.8	307.3	302.0	297.6
45°	287.3	286.4	284.6	283.8	282.1	280.3	278.6	275.9	271.6	266.4	263.8
47.5°	254.3	251.7	251.7	250.8	249.9	246.4	245.6	243.0	240.4	235.2	231.7
50°	223.0	223.0	223.0	222.2	219.6	218.7	217.0	214.4	211.7	208.3	203.0
52.5°	197.9	197.9	197.9	197.0	193.5	192.7	191.8	188.3	184.8	182.2	178.8
55°	174.5	175.3	174.5	172.7	170.1	170.1	167.5	165.8	162.3	159.7	156.2
57.5°	154.5	154.5	152.8	151.8	150.1	149.3	147.5	145.8	141.5	138.8	134.5
60°	135.4	134.5	134.5	132.8	131.1	129.3	128.5	125.8	124.1	119.8	116.3
62.5°	118.0	118.0	116.3	116.3	112.8	112.8	111.9	109.3	106.8	102.4	100.6
65°	101.6	101.6	100.6	99.8	97.2	96.3	95.4	92.9	90.3	87.6	85.1
67.5°	86.8	86.8	85.1	84.2	82.4	81.6	79.9	78.1	75.6	72.9	70.3
70°	72.9	72.1	71.2	70.3	68.6	67.7	65.9	64.2	61.6	59.9	57.2
72.5°	59.0	59.0	58.2	56.4	55.6	54.7	53.9	52.1	49.5	46.9	45.2
75°	46.0	46.0	46.0	44.2	42.5	41.7	41.7	39.9	38.2	35.5	33.9
77.5°	35.5	34.7	33.9	33.9	32.1	31.2	30.4	29.5	26.9	26.0	24.3
80°	24.3	25.2	24.3	23.4	22.5	21.7	21.7	20.0	19.0	17.4	15.7
82.5°	16.5	15.7	15.7	14.7	14.7	13.9	13.9	12.2	11.3	10.4	9.5
85°	8.7	8.7	7.8	7.8	7.8	7.0	7.0	6.0	6.0	5.2	4.3
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	1.7	1.7	1.7
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: P583913

CATALOG NUMBER: HCC8W15D010BZ-HM80520927-81WWBB

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6
2.5°	588.4	586.7	585.8	585.8	584.9	584.1	583.2	582.4	580.6	580.6	578.9
5°	592.7	591.1	590.1	587.6	585.8	585.8	582.4	581.4	578.9	577.1	575.4
7.5°	596.2	592.7	590.1	587.6	585.8	584.1	580.6	577.1	573.7	570.2	568.4
10°	596.2	592.7	588.4	584.1	582.4	580.6	576.2	571.0	566.7	563.2	558.9
12.5°	594.4	589.2	584.1	580.6	577.1	574.5	569.4	564.1	558.9	552.0	548.5
15°	589.2	582.4	577.1	571.0	568.4	564.1	559.7	552.0	545.9	539.8	535.5
17.5°	578.9	570.2	564.1	558.0	553.7	551.0	544.2	537.2	530.3	523.3	518.2
20°	563.2	555.4	548.5	540.7	537.2	533.7	525.0	518.2	511.2	503.3	498.1
22.5°	544.2	536.3	526.8	520.7	515.5	511.2	503.3	495.5	488.6	481.6	474.8
25°	520.7	512.8	504.2	494.7	491.2	486.8	478.1	470.4	462.6	454.8	448.7
27.5°	495.5	485.1	478.1	467.8	464.3	459.9	450.4	441.8	434.8	428.7	421.8
30°	465.1	457.4	447.8	438.3	434.8	430.4	422.6	414.9	407.9	400.9	394.0
32.5°	432.2	424.4	414.9	407.9	402.7	399.2	391.4	384.5	377.5	370.5	364.5
35°	397.5	388.9	381.9	374.9	370.5	366.2	358.4	352.3	347.2	341.0	335.0
37.5°	361.9	355.8	348.8	341.0	336.7	333.3	327.2	320.3	316.0	310.6	306.3
40°	327.2	320.3	314.1	307.3	303.8	301.1	295.1	289.9	285.6	281.1	278.6
42.5°	291.6	285.6	279.4	275.1	272.5	269.9	265.6	259.4	256.9	252.6	249.9
45°	258.6	253.4	249.1	243.0	241.2	239.6	234.4	230.0	227.4	224.7	223.0
47.5°	227.4	223.9	218.7	215.2	212.7	210.9	207.4	204.0	201.4	199.5	197.9
50°	200.5	196.2	192.7	189.2	187.5	184.8	181.4	179.7	177.9	176.2	176.2
52.5°	175.3	171.0	167.5	164.8	163.2	161.5	158.8	158.0	156.2	156.2	155.3
55°	151.8	149.3	145.8	142.3	141.5	140.6	138.8	137.1	136.3	135.4	136.3
57.5°	131.9	129.3	125.8	123.3	122.4	121.5	120.6	118.9	118.0	118.0	118.0
60°	113.6	111.1	108.4	105.9	105.9	104.1	103.3	102.4	101.6	100.6	100.6
62.5°	97.2	94.6	91.9	90.3	89.4	88.6	86.8	85.9	85.1	85.1	84.2
65°	82.4	78.9	78.1	75.6	74.6	73.7	72.9	71.2	70.3	69.4	68.6
67.5°	67.7	65.9	63.4	61.6	60.7	59.9	59.0	57.2	56.4	55.6	53.9
70°	54.7	52.9	51.2	49.5	48.6	47.7	46.0	44.2	43.4	41.7	39.0
72.5°	42.5	40.8	39.0	37.4	36.4	35.5	33.9	32.1	30.4	28.7	26.9
75°	32.1	30.4	27.7	26.0	25.2	25.2	22.5	20.8	19.0	16.5	14.7
77.5°	22.5	20.0	19.0	17.4	16.5	14.7	13.0	11.3	9.5	8.7	7.0
80°	14.7	13.0	11.3	10.4	9.5	8.7	7.8	6.0	4.3	3.5	2.7
82.5°	8.7	7.8	7.0	6.0	5.2	4.3	3.5	3.5	2.7	1.7	0.8
85°	4.3	3.5	2.7	2.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8
87.5°	1.7	0.8	0.8	0.8	0.8	0.8	0.8	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: P583913

CATALOG NUMBER: HCC8W15D010BZ-HM80520927-81WWBB

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6
2.5°	578.0	577.1	576.2	575.4	575.4	573.7	573.7	572.7	571.0	570.2	570.2
5°	572.7	570.2	568.4	567.6	566.7	564.1	563.2	561.5	559.7	558.0	557.2
7.5°	565.0	560.7	558.9	558.0	555.4	552.9	551.0	548.5	545.9	543.3	542.4
10°	555.4	551.0	546.7	545.0	542.4	540.7	537.2	533.7	531.2	528.5	525.9
12.5°	543.3	538.0	533.7	532.0	529.4	525.9	520.7	519.0	514.7	512.8	509.5
15°	529.4	523.3	519.0	516.3	513.8	508.5	505.1	501.6	497.3	495.5	492.1
17.5°	512.0	505.1	500.8	498.1	496.5	492.1	486.8	482.5	478.1	476.5	473.8
20°	491.2	486.8	480.8	478.1	476.5	471.3	466.1	464.3	460.8	457.4	454.8
22.5°	467.8	463.4	457.4	454.8	453.9	449.6	445.2	442.6	439.9	437.4	434.8
25°	443.4	438.3	433.1	431.3	429.6	426.1	422.6	420.9	418.3	416.6	414.9
27.5°	417.4	412.2	407.9	405.2	403.6	400.9	399.2	397.5	395.7	394.0	393.2
30°	389.7	384.5	381.0	379.2	377.5	376.7	374.0	373.2	372.3	370.5	371.5
32.5°	361.9	357.5	354.0	351.5	351.5	349.7	348.8	348.8	348.0	348.0	348.0
35°	331.5	329.0	326.3	325.5	324.6	323.7	322.8	323.7	322.8	323.7	324.6
37.5°	303.8	301.1	299.4	298.6	297.6	298.6	297.6	297.6	298.6	300.3	301.1
40°	275.1	273.4	271.6	272.5	271.6	271.6	271.6	274.3	275.1	275.9	276.8
42.5°	248.2	246.4	245.6	245.6	246.4	245.6	247.4	248.2	249.9	252.6	254.3
45°	222.2	221.4	221.4	222.2	221.4	223.0	223.0	224.7	227.4	229.1	230.9
47.5°	197.9	197.9	197.9	198.7	198.7	199.5	201.4	202.2	204.0	205.7	207.4
50°	175.3	176.2	177.0	177.0	177.0	178.8	180.5	181.4	182.2	183.2	185.7
52.5°	155.3	156.2	156.2	157.1	158.0	158.8	159.7	161.5	162.3	164.0	164.8
55°	136.3	136.3	138.0	138.8	138.8	138.8	140.6	140.6	142.3	143.2	145.0
57.5°	118.0	118.9	118.9	119.8	119.8	120.6	121.5	122.4	123.3	124.1	125.0
60°	100.6	100.6	100.6	101.6	102.4	103.3	102.4	104.1	104.1	105.9	106.8
62.5°	84.2	85.1	85.1	85.1	85.1	85.1	85.1	85.9	86.8	87.6	88.6
65°	68.6	68.6	68.6	67.7	68.6	67.7	68.6	69.4	69.4	70.3	71.2
67.5°	52.9	52.9	51.2	51.2	52.1	52.1	52.1	52.1	51.2	52.9	52.9
70°	38.2	37.4	36.4	35.5	35.5	34.7	34.7	33.9	33.9	33.9	33.9
72.5°	25.2	23.4	21.7	20.8	20.0	20.0	18.2	17.4	18.2	18.2	18.2
75°	13.0	11.3	10.4	9.5	8.7	8.7	7.8	7.8	7.8	7.8	7.8
77.5°	5.2	4.3	3.5	3.5	2.7	2.7	2.7	2.7	2.7	2.7	2.7
80°	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.0	0.0	0.8	0.0	0.8	0.8	0.8	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: P583913

CATALOG NUMBER: HCC8W15D010BZ-HM80520927-81WWBB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6
2.5°	569.4	569.4	568.4	569.4	567.6	568.4	567.6	567.6
5°	556.3	554.5	554.5	554.5	553.7	553.7	552.9	552.9
7.5°	540.7	539.8	539.0	538.0	537.2	536.3	536.3	536.3
10°	525.0	523.3	523.3	522.5	520.7	519.8	519.8	519.8
12.5°	506.8	506.0	505.1	505.1	501.6	502.5	501.6	501.6
15°	489.5	488.6	488.6	486.0	484.3	484.3	484.3	483.4
17.5°	471.3	470.4	469.5	467.8	466.1	466.1	465.1	466.1
20°	452.1	451.3	449.6	449.6	448.7	447.8	446.1	446.9
22.5°	433.1	431.3	430.4	430.4	429.6	429.6	427.9	427.9
25°	413.1	412.2	411.4	412.2	410.5	410.5	408.7	408.7
27.5°	392.2	391.4	391.4	391.4	390.5	391.4	390.5	390.5
30°	371.5	371.5	370.5	370.5	371.5	370.5	371.5	372.3
32.5°	348.8	348.8	349.7	349.7	350.7	350.7	350.7	350.7
35°	325.5	327.2	327.2	328.0	329.0	329.8	329.8	330.7
37.5°	303.8	304.6	305.5	306.3	308.1	308.1	308.1	308.1
40°	280.3	281.1	282.9	282.1	285.6	286.4	285.6	285.6
42.5°	256.1	257.7	258.6	260.4	261.2	262.9	263.8	263.8
45°	233.4	234.4	236.1	237.7	238.7	241.2	241.2	241.2
47.5°	210.0	211.7	212.7	214.4	215.2	217.9	218.7	217.9
50°	187.5	189.2	190.9	190.9	193.5	194.4	196.2	197.0
52.5°	165.8	166.7	168.3	169.2	171.0	172.7	173.5	174.5
55°	145.0	145.8	147.5	147.5	150.1	151.0	152.8	152.8
57.5°	125.8	126.8	128.5	127.6	129.3	131.1	131.1	130.1
60°	107.6	107.6	107.6	109.3	110.3	111.1	111.9	111.9
62.5°	88.6	90.3	91.1	91.1	91.9	92.9	92.9	91.9
65°	71.2	72.9	73.7	73.7	74.6	74.6	74.6	75.6
67.5°	53.9	53.9	53.9	54.7	53.9	53.9	53.9	53.9
70°	33.9	33.9	33.9	33.9	33.0	33.9	33.9	34.7
72.5°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
75°	7.8	7.8	7.8	8.7	7.8	7.8	7.8	7.8
77.5°	3.5	2.7	3.5	3.5	2.7	2.7	2.7	2.7
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.8	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)