

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: P593530

Luminaire Tested: **HCC8W10D010BZ-HM80520850-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593530
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: HCC8W10D010BZ-HM80520850-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

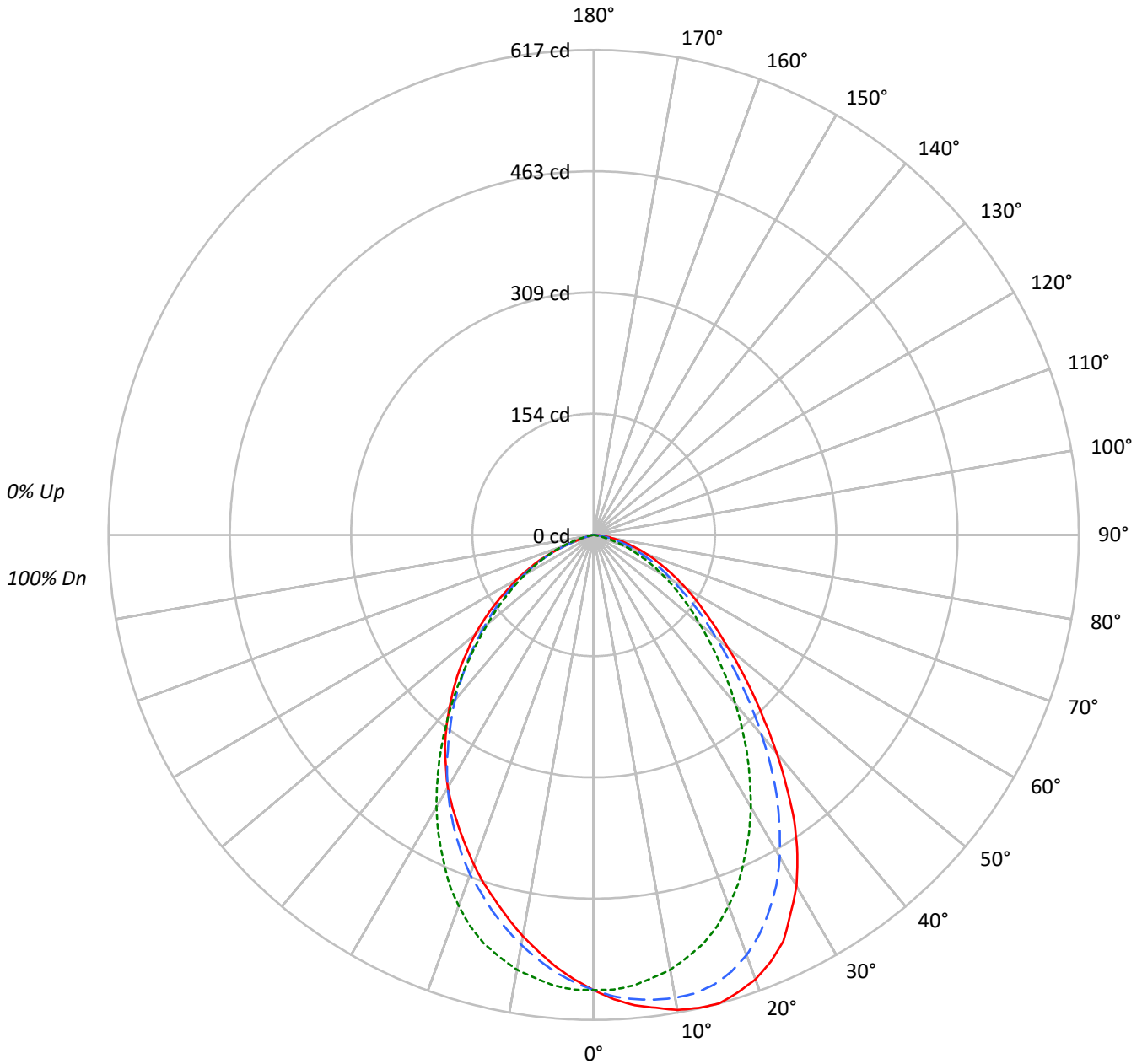
Lumens per Lamp: N/A
Luminaire Lumens: 1078.7 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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: P593530
CATALOG NUMBER: HCC8W10D010BZ-HM80520850-81WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P593530

CATALOG NUMBER: HCC8W10D010BZ-HM80520850-81WWBB

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°	17857	17857	17857
5°	18597	17817	17068
10°	19216	17591	16235
15°	19704	17188	15391
20°	19742	16477	14629
25°	19411	15433	13872
30°	18370	14239	13221
35°	16752	12807	12415
40°	14564	11287	11464
45°	12498	9777	10492
50°	10674	8429	9427
55°	9349	7258	8188
60°	8326	6192	6889
65°	7391	5049	5502
70°	6555	3751	3120
75°	5469	1966	929
80°	4315	622	142
85°	3078	283	0



TEST NUMBER: P593530
 CATALOG NUMBER: HCC8W10D010BZ-HM80520850-81WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	5.1
10°-20°	152.9	14.2
20°-30°	216.5	20.1
30°-40°	226.5	21.0
40°-50°	188.9	17.5
50°-60°	133.9	12.4
60°-70°	77.2	7.2
70°-80°	24.8	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°	424.0	39.3
0°-40°	650.4	60.3
0°-60°	973.3	90.2
0°-90°	1078.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1078.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	579	579	579	579	579	
5°	601	593	576	558	551	58
15°	617	592	538	496	482	174
25°	570	528	454	417	408	260
35°	445	406	340	322	330	276
45°	287	263	224	227	241	222
55°	174	156	135	142	152	157
65°	101	85	69	69	75	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: P593530

CATALOG NUMBER: HCC8W10D010BZ-HM80520850-81WWBB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1
2.5°	591.3	590.3	589.5	590.3	589.5	590.3	589.5	589.5	588.6	587.8	587.8
5°	600.8	599.9	599.9	599.9	599.0	598.1	598.1	597.3	595.6	594.6	592.9
7.5°	606.8	607.6	607.6	607.6	605.9	605.9	604.2	602.4	600.8	599.0	596.4
10°	613.7	613.7	612.9	611.9	610.3	609.4	608.6	606.8	604.2	600.8	598.1
12.5°	616.3	616.3	615.4	613.7	612.9	611.9	611.1	608.6	605.1	600.8	597.3
15°	617.2	615.4	614.6	613.7	611.9	609.4	609.4	605.9	601.6	596.4	592.1
17.5°	610.3	611.1	609.4	607.6	605.1	603.3	600.8	598.1	592.9	586.9	582.6
20°	601.6	600.8	599.9	597.3	593.8	592.9	590.3	586.0	581.6	574.8	568.7
22.5°	587.8	586.9	585.1	583.5	580.0	578.3	575.6	570.5	564.3	557.5	550.5
25°	570.5	568.7	566.1	562.7	560.0	558.3	554.8	549.7	542.7	534.9	528.0
27.5°	542.7	545.3	543.7	538.4	535.9	532.4	531.5	524.6	518.5	510.7	502.9
30°	515.9	515.9	513.3	510.7	506.4	503.8	500.3	495.1	489.1	479.6	473.5
32.5°	482.1	481.3	477.8	477.0	473.5	468.3	467.5	460.5	454.5	447.5	439.7
35°	445.0	443.2	439.7	437.2	435.4	432.8	430.2	424.2	418.1	411.2	405.9
37.5°	402.5	402.5	401.6	397.3	395.6	393.9	391.3	385.2	381.8	374.8	369.6
40°	361.8	361.0	358.3	357.5	355.8	353.1	351.5	348.0	342.8	337.6	332.4
42.5°	322.0	322.9	319.4	320.3	316.8	315.0	314.2	309.0	306.4	301.2	296.9
45°	286.6	285.6	283.9	283.1	281.3	279.6	277.9	275.3	270.9	265.8	263.1
47.5°	253.6	251.0	251.0	250.1	249.3	245.8	245.0	242.3	239.8	234.6	231.1
50°	222.5	222.5	222.5	221.6	219.0	218.2	216.4	213.8	211.2	207.7	202.5
52.5°	197.4	197.4	197.4	196.5	193.0	192.2	191.4	187.9	184.4	181.7	178.3
55°	173.9	174.9	173.9	172.2	169.6	169.6	167.1	165.3	161.9	159.3	155.8
57.5°	154.1	154.1	152.3	151.5	149.8	148.9	147.1	145.4	141.1	138.5	134.1
60°	135.0	134.1	134.1	132.5	130.7	129.0	128.1	125.5	123.8	119.5	116.0
62.5°	117.7	117.7	116.0	116.0	112.5	112.5	111.7	109.0	106.5	102.2	100.4
65°	101.3	101.3	100.4	99.5	97.0	96.0	95.2	92.7	90.0	87.4	84.9
67.5°	86.5	86.5	84.9	84.0	82.2	81.4	79.7	77.9	75.4	72.7	70.1
70°	72.7	71.9	71.0	70.1	68.4	67.6	65.7	64.1	61.4	59.7	57.1
72.5°	58.9	58.9	57.9	56.3	55.4	54.6	53.6	51.9	49.3	46.8	45.0
75°	45.9	45.9	45.9	44.1	42.4	41.6	41.6	39.8	38.1	35.5	33.8
77.5°	35.5	34.6	33.8	33.8	32.0	31.1	30.3	29.4	26.8	26.0	24.3
80°	24.3	25.1	24.3	23.3	22.5	21.6	21.6	20.0	19.0	17.3	15.6
82.5°	16.5	15.6	15.6	14.7	14.7	13.8	13.8	12.1	11.3	10.3	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°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	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: P593530

CATALOG NUMBER: HCC8W10D010BZ-HM80520850-81WWBB

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1
2.5°	586.9	585.1	584.3	584.3	583.5	582.6	581.6	580.8	579.1	579.1	577.3
5°	591.3	589.5	588.6	586.0	584.3	584.3	580.8	580.0	577.3	575.6	574.0
7.5°	594.6	591.3	588.6	586.0	584.3	582.6	579.1	575.6	572.2	568.7	567.0
10°	594.6	591.3	586.9	582.6	580.8	579.1	574.8	569.6	565.3	561.8	557.5
12.5°	592.9	587.8	582.6	579.1	575.6	573.0	567.8	562.7	557.5	550.5	547.0
15°	587.8	580.8	575.6	569.6	567.0	562.7	558.3	550.5	544.5	538.4	534.0
17.5°	577.3	568.7	562.7	556.6	552.3	549.7	542.7	535.9	528.9	521.9	516.7
20°	561.8	554.0	547.0	539.2	535.9	532.4	523.7	516.7	509.9	502.1	496.9
22.5°	542.7	534.9	525.4	519.4	514.2	509.9	502.1	494.3	487.3	480.4	473.5
25°	519.4	511.6	502.9	493.4	489.9	485.6	477.0	469.1	461.3	453.6	447.5
27.5°	494.3	483.9	477.0	466.6	463.1	458.8	449.3	440.7	433.7	427.7	420.7
30°	464.0	456.2	446.7	437.2	433.7	429.4	421.5	413.7	406.9	399.9	392.9
32.5°	431.0	423.3	413.7	406.9	401.6	398.2	390.4	383.4	376.6	369.6	363.6
35°	396.4	387.8	380.9	373.9	369.6	365.3	357.5	351.5	346.3	340.2	334.2
37.5°	361.0	355.0	348.0	340.2	335.8	332.4	326.3	319.4	315.0	309.9	305.5
40°	326.3	319.4	313.4	306.4	303.0	300.4	294.2	289.1	284.8	280.4	277.9
42.5°	290.9	284.8	278.7	274.4	271.8	269.2	264.9	258.8	256.3	251.9	249.3
45°	257.9	252.8	248.5	242.3	240.6	239.0	233.7	229.3	226.8	224.2	222.5
47.5°	226.8	223.3	218.2	214.7	212.0	210.4	206.9	203.4	200.9	199.1	197.4
50°	200.0	195.7	192.2	188.7	187.0	184.4	180.9	179.2	177.4	175.7	175.7
52.5°	174.9	170.6	167.1	164.4	162.8	160.9	158.4	157.6	155.8	155.8	154.9
55°	151.5	148.9	145.4	142.0	141.1	140.3	138.5	136.8	135.9	135.0	135.9
57.5°	131.6	129.0	125.5	123.0	122.0	121.2	120.3	118.6	117.7	117.7	117.7
60°	113.3	110.8	108.2	105.7	105.7	103.9	103.0	102.2	101.3	100.4	100.4
62.5°	97.0	94.4	91.7	90.0	89.2	88.3	86.5	85.7	84.9	84.9	84.0
65°	82.2	78.7	77.9	75.4	74.4	73.6	72.7	71.0	70.1	69.2	68.4
67.5°	67.6	65.7	63.2	61.4	60.6	59.7	58.9	57.1	56.3	55.4	53.6
70°	54.6	52.8	51.1	49.3	48.4	47.6	45.9	44.1	43.3	41.6	38.9
72.5°	42.4	40.6	38.9	37.3	36.3	35.5	33.8	32.0	30.3	28.6	26.8
75°	32.0	30.3	27.6	26.0	25.1	25.1	22.5	20.8	19.0	16.5	14.7
77.5°	22.5	20.0	19.0	17.3	16.5	14.7	13.0	11.3	9.5	8.7	7.0
80°	14.7	13.0	11.3	10.3	9.5	8.7	7.8	6.0	4.3	3.5	2.6
82.5°	8.7	7.8	7.0	6.0	5.2	4.3	3.5	3.5	2.6	1.7	0.8
85°	4.3	3.5	2.6	2.6	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: P593530

CATALOG NUMBER: HCC8W10D010BZ-HM80520850-81WWBB

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1
2.5°	576.5	575.6	574.8	574.0	574.0	572.2	572.2	571.3	569.6	568.7	568.7
5°	571.3	568.7	567.0	566.1	565.3	562.7	561.8	560.0	558.3	556.6	555.7
7.5°	563.5	559.2	557.5	556.6	554.0	551.4	549.7	547.0	544.5	541.9	541.0
10°	554.0	549.7	545.3	543.7	541.0	539.2	535.9	532.4	529.7	527.2	524.6
12.5°	541.9	536.7	532.4	530.6	528.0	524.6	519.4	517.6	513.3	511.6	508.1
15°	528.0	521.9	517.6	515.1	512.4	507.2	503.8	500.3	495.9	494.3	490.8
17.5°	510.7	503.8	499.4	496.9	495.1	490.8	485.6	481.3	477.0	475.3	472.6
20°	489.9	485.6	479.6	477.0	475.3	470.0	464.8	463.1	459.6	456.2	453.6
22.5°	466.6	462.3	456.2	453.6	452.7	448.3	444.0	441.5	438.9	436.3	433.7
25°	442.3	437.2	432.0	430.2	428.5	425.0	421.5	419.9	417.2	415.5	413.7
27.5°	416.4	411.2	406.9	404.2	402.5	399.9	398.2	396.4	394.7	392.9	392.1
30°	388.6	383.4	380.0	378.3	376.6	375.6	373.1	372.3	371.3	369.6	370.5
32.5°	361.0	356.6	353.1	350.6	350.6	348.8	348.0	348.0	347.1	347.1	347.1
35°	330.7	328.0	325.5	324.7	323.7	322.9	322.0	322.9	322.0	322.9	323.7
37.5°	303.0	300.4	298.6	297.7	296.9	297.7	296.9	296.9	297.7	299.5	300.4
40°	274.4	272.6	270.9	271.8	270.9	270.9	270.9	273.6	274.4	275.3	276.1
42.5°	247.6	245.8	245.0	245.0	245.8	245.0	246.7	247.6	249.3	251.9	253.6
45°	221.6	220.7	220.7	221.6	220.7	222.5	222.5	224.2	226.8	228.5	230.3
47.5°	197.4	197.4	197.4	198.2	198.2	199.1	200.9	201.7	203.4	205.2	206.9
50°	174.9	175.7	176.6	176.6	176.6	178.3	180.1	180.9	181.7	182.7	185.2
52.5°	154.9	155.8	155.8	156.6	157.6	158.4	159.3	160.9	161.9	163.6	164.4
55°	135.9	135.9	137.6	138.5	138.5	138.5	140.3	140.3	142.0	142.8	144.6
57.5°	117.7	118.6	118.6	119.5	119.5	120.3	121.2	122.0	123.0	123.8	124.6
60°	100.4	100.4	100.4	101.3	102.2	103.0	102.2	103.9	103.9	105.7	106.5
62.5°	84.0	84.9	84.9	84.9	84.9	84.9	84.9	85.7	86.5	87.4	88.3
65°	68.4	68.4	68.4	67.6	68.4	67.6	68.4	69.2	69.2	70.1	71.0
67.5°	52.8	52.8	51.1	51.1	51.9	51.9	51.9	51.9	51.1	52.8	52.8
70°	38.1	37.3	36.3	35.5	35.5	34.6	34.6	33.8	33.8	33.8	33.8
72.5°	25.1	23.3	21.6	20.8	20.0	20.0	18.2	17.3	18.2	18.2	18.2
75°	13.0	11.3	10.3	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	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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: P593530

CATALOG NUMBER: HCC8W10D010BZ-HM80520850-81WWBB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1
2.5°	567.8	567.8	567.0	567.8	566.1	567.0	566.1	566.1
5°	554.8	553.2	553.2	553.2	552.3	552.3	551.4	551.4
7.5°	539.2	538.4	537.5	536.7	535.9	534.9	534.9	534.9
10°	523.7	521.9	521.9	521.1	519.4	518.5	518.5	518.5
12.5°	505.6	504.6	503.8	503.8	500.3	501.2	500.3	500.3
15°	488.3	487.3	487.3	484.8	483.0	483.0	483.0	482.1
17.5°	470.0	469.1	468.3	466.6	464.8	464.8	464.0	464.8
20°	451.0	450.1	448.3	448.3	447.5	446.7	445.0	445.8
22.5°	432.0	430.2	429.4	429.4	428.5	428.5	426.7	426.7
25°	412.0	411.2	410.2	411.2	409.4	409.4	407.7	407.7
27.5°	391.3	390.4	390.4	390.4	389.6	390.4	389.6	389.6
30°	370.5	370.5	369.6	369.6	370.5	369.6	370.5	371.3
32.5°	348.0	348.0	348.8	348.8	349.7	349.7	349.7	349.7
35°	324.7	326.3	326.3	327.2	328.0	329.0	329.0	329.8
37.5°	303.0	303.9	304.7	305.5	307.4	307.4	307.4	307.4
40°	279.6	280.4	282.2	281.3	284.8	285.6	284.8	284.8
42.5°	255.3	257.1	257.9	259.6	260.6	262.3	263.1	263.1
45°	232.8	233.7	235.5	237.2	238.0	240.6	240.6	240.6
47.5°	209.5	211.2	212.0	213.8	214.7	217.3	218.2	217.3
50°	187.0	188.7	190.4	190.4	193.0	193.9	195.7	196.5
52.5°	165.3	166.2	167.9	168.8	170.6	172.2	173.1	173.9
55°	144.6	145.4	147.1	147.1	149.8	150.6	152.3	152.3
57.5°	125.5	126.3	128.1	127.3	129.0	130.7	130.7	129.8
60°	107.3	107.3	107.3	109.0	110.0	110.8	111.7	111.7
62.5°	88.3	90.0	90.9	90.9	91.7	92.7	92.7	91.7
65°	71.0	72.7	73.6	73.6	74.4	74.4	74.4	75.4
67.5°	53.6	53.6	53.6	54.6	53.6	53.6	53.6	53.6
70°	33.8	33.8	33.8	33.8	32.9	33.8	33.8	34.6
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	2.6	3.5	3.5	2.6	2.6	2.6	2.6
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)