

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: P583828

Luminaire Tested: **HCC8W10D010MW-HM80520940-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583828
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: HCC8W10D010MW-HM80520940-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

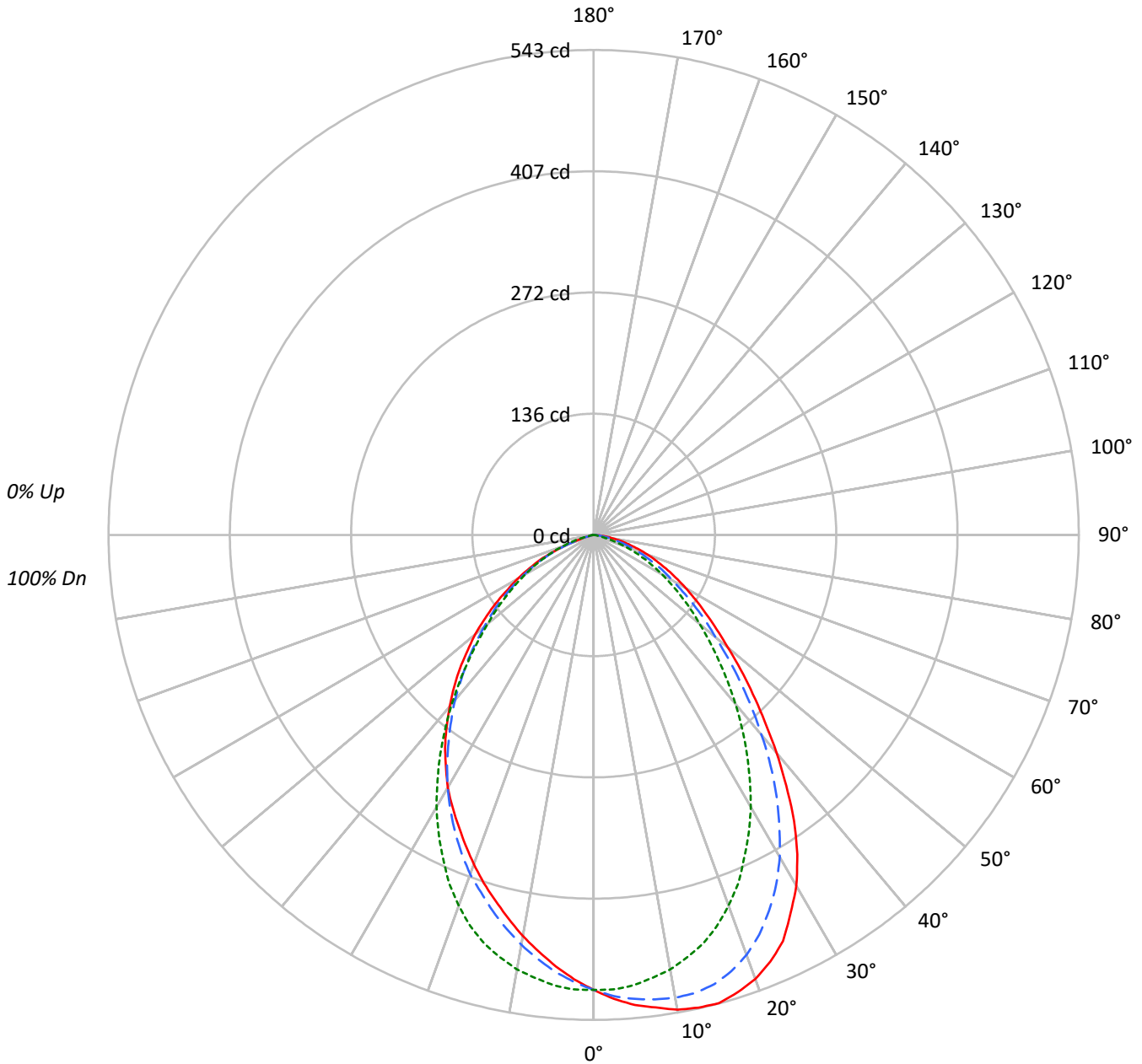
Lumens per Lamp: N/A
Luminaire Lumens: 948.8 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (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: P583828
CATALOG NUMBER: HCC8W10D010MW-HM80520940-81WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P583828

CATALOG NUMBER: HCC8W10D010MW-HM80520940-81WWBB

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°	15708	15708	15708
5°	16356	15672	15013
10°	16902	15471	14278
15°	17328	15119	13539
20°	17363	14491	12867
25°	17070	13572	12201
30°	16158	12523	11629
35°	14734	11263	10917
40°	12813	9931	10084
45°	10994	8600	9232
50°	9388	7417	8290
55°	8226	6387	7204
60°	7327	5446	6056
65°	6501	4444	4830
70°	5761	3291	2741
75°	4813	1716	822
80°	3782	533	124
85°	2689	248	0



TEST NUMBER: P583828
 CATALOG NUMBER: HCC8W10D010MW-HM80520940-81WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	5.1
10°-20°	134.5	14.2
20°-30°	190.4	20.1
30°-40°	199.2	21.0
40°-50°	166.2	17.5
50°-60°	117.8	12.4
60°-70°	67.8	7.2
70°-80°	21.8	2.3
80°-90°	3.0	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°	372.9	39.3
0°-40°	572.1	60.3
0°-60°	856.1	90.2
0°-90°	948.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	948.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	509	509	509	509	509	
5°	528	522	506	491	485	51
15°	543	521	474	436	424	153
25°	502	464	399	367	359	229
35°	391	357	299	283	290	243
45°	252	232	197	200	212	195
55°	153	137	119	125	134	138
65°	89	75	61	61	66	89
75°	40	30	14	7	7	44
85°	8	4	1	0	0	10
90°	0	0	0	0	0	

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



TEST NUMBER: P583828

CATALOG NUMBER: HCC8W10D010MW-HM80520940-81WWBB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	520.0	519.3	518.5	519.3	518.5	519.3	518.5	518.5	517.7	517.0	517.0
5°	528.4	527.7	527.7	527.7	526.8	526.1	526.1	525.4	523.8	523.1	521.5
7.5°	533.7	534.5	534.5	534.5	533.0	533.0	531.4	530.0	528.4	526.8	524.6
10°	539.8	539.8	539.1	538.3	536.8	536.0	535.3	533.7	531.4	528.4	526.1
12.5°	542.1	542.1	541.4	539.8	539.1	538.3	537.5	535.3	532.2	528.4	525.4
15°	542.8	541.4	540.5	539.8	538.3	536.0	536.0	533.0	529.1	524.6	520.8
17.5°	536.8	537.5	536.0	534.5	532.2	530.7	528.4	526.1	521.5	516.3	512.4
20°	529.1	528.4	527.7	525.4	522.3	521.5	519.3	515.4	511.7	505.6	500.3
22.5°	517.0	516.3	514.7	513.1	510.1	508.6	506.3	501.7	496.4	490.3	484.3
25°	501.7	500.3	498.0	494.9	492.6	491.1	488.0	483.4	477.4	470.6	464.5
27.5°	477.4	479.7	478.2	473.6	471.3	468.3	467.5	461.4	456.0	449.2	442.3
30°	453.8	453.8	451.5	449.2	445.3	443.1	440.1	435.5	430.2	421.8	416.5
32.5°	424.1	423.3	420.2	419.5	416.5	411.9	411.1	405.1	399.7	393.7	386.8
35°	391.4	389.8	386.8	384.5	383.0	380.7	378.4	373.1	367.7	361.7	357.1
37.5°	354.0	354.0	353.3	349.4	348.0	346.4	344.1	338.8	335.7	329.7	325.1
40°	318.3	317.4	315.2	314.4	312.9	310.6	309.2	306.0	301.5	296.9	292.3
42.5°	283.2	284.0	280.9	281.7	278.6	277.2	276.3	271.8	269.5	264.9	261.2
45°	252.1	251.2	249.8	248.9	247.5	245.9	244.4	242.1	238.4	233.8	231.5
47.5°	223.1	220.8	220.8	220.1	219.2	216.2	215.5	213.2	211.0	206.4	203.3
50°	195.7	195.7	195.7	195.0	192.7	191.8	190.4	188.1	185.8	182.7	178.1
52.5°	173.6	173.6	173.6	172.8	169.8	169.0	168.3	165.3	162.1	159.9	156.9
55°	153.0	153.9	153.0	151.6	149.2	149.2	146.9	145.4	142.3	140.0	137.0
57.5°	135.5	135.5	134.0	133.2	131.7	130.9	129.5	127.9	124.0	121.8	118.0
60°	118.8	118.0	118.0	116.5	114.9	113.5	112.6	110.3	108.9	105.1	102.0
62.5°	103.5	103.5	102.0	102.0	98.9	98.9	98.2	95.9	93.6	89.8	88.3
65°	89.1	89.1	88.3	87.5	85.2	84.5	83.8	81.5	79.2	76.9	74.6
67.5°	76.1	76.1	74.6	73.8	72.4	71.5	70.1	68.5	66.2	63.9	61.7
70°	63.9	63.2	62.4	61.7	60.1	59.4	57.8	56.4	54.1	52.5	50.2
72.5°	51.8	51.8	51.0	49.5	48.7	48.0	47.2	45.7	43.4	41.1	39.5
75°	40.4	40.4	40.4	38.8	37.3	36.5	36.5	35.0	33.5	31.3	29.7
77.5°	31.3	30.4	29.7	29.7	28.1	27.4	26.7	25.8	23.6	22.8	21.3
80°	21.3	22.1	21.3	20.6	19.8	19.0	19.0	17.5	16.7	15.3	13.7
82.5°	14.4	13.7	13.7	13.0	13.0	12.1	12.1	10.7	9.9	9.1	8.4
85°	7.6	7.6	6.9	6.9	6.9	6.1	6.1	5.3	5.3	4.6	3.8
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.6	1.6	1.6
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: P583828

CATALOG NUMBER: HCC8W10D010MW-HM80520940-81WWBB

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	516.3	514.7	514.0	514.0	513.1	512.4	511.7	510.8	509.4	509.4	507.8
5°	520.0	518.5	517.7	515.4	514.0	514.0	510.8	510.1	507.8	506.3	504.8
7.5°	523.1	520.0	517.7	515.4	514.0	512.4	509.4	506.3	503.3	500.3	498.7
10°	523.1	520.0	516.3	512.4	510.8	509.4	505.6	501.0	497.1	494.1	490.3
12.5°	521.5	517.0	512.4	509.4	506.3	504.0	499.4	494.9	490.3	484.3	481.2
15°	517.0	510.8	506.3	501.0	498.7	494.9	491.1	484.3	478.9	473.6	469.7
17.5°	507.8	500.3	494.9	489.6	485.7	483.4	477.4	471.3	465.2	459.2	454.6
20°	494.1	487.3	481.2	474.3	471.3	468.3	460.6	454.6	448.5	441.6	437.0
22.5°	477.4	470.6	462.2	456.9	452.3	448.5	441.6	434.8	428.6	422.5	416.5
25°	456.9	450.0	442.3	433.9	430.9	427.1	419.5	412.6	405.8	398.9	393.7
27.5°	434.8	425.6	419.5	410.4	407.4	403.5	395.1	387.5	381.4	376.1	370.0
30°	408.1	401.2	392.8	384.5	381.4	377.7	370.8	364.0	357.8	351.7	345.7
32.5°	379.1	372.3	364.0	357.8	353.3	350.3	343.4	337.3	331.2	325.1	319.7
35°	348.7	341.1	335.0	328.9	325.1	321.3	314.4	309.2	304.6	299.2	293.9
37.5°	317.4	312.2	306.0	299.2	295.5	292.3	287.0	280.9	277.2	272.6	268.8
40°	287.0	280.9	275.6	269.5	266.5	264.2	258.9	254.3	250.5	246.7	244.4
42.5°	255.8	250.5	245.2	241.4	239.1	236.8	232.9	227.7	225.4	221.5	219.2
45°	226.9	222.4	218.5	213.2	211.7	210.1	205.5	201.8	199.5	197.2	195.7
47.5°	199.5	196.4	191.8	188.8	186.6	185.0	182.0	179.0	176.7	175.1	173.6
50°	175.9	172.1	169.0	166.0	164.4	162.1	159.1	157.6	156.1	154.6	154.6
52.5°	153.9	150.0	146.9	144.6	143.2	141.6	139.3	138.6	137.0	137.0	136.3
55°	133.2	130.9	127.9	124.9	124.0	123.3	121.8	120.3	119.5	118.8	119.5
57.5°	115.8	113.5	110.3	108.1	107.3	106.6	105.8	104.3	103.5	103.5	103.5
60°	99.8	97.5	95.2	92.9	92.9	91.4	90.6	89.8	89.1	88.3	88.3
62.5°	85.2	82.9	80.7	79.2	78.4	77.6	76.1	75.4	74.6	74.6	73.8
65°	72.4	69.2	68.5	66.2	65.5	64.7	63.9	62.4	61.7	60.9	60.1
67.5°	59.4	57.8	55.5	54.1	53.2	52.5	51.8	50.2	49.5	48.7	47.2
70°	48.0	46.4	45.0	43.4	42.7	41.8	40.4	38.8	38.1	36.5	34.3
72.5°	37.3	35.8	34.3	32.7	32.0	31.3	29.7	28.1	26.7	25.1	23.6
75°	28.1	26.7	24.4	22.8	22.1	22.1	19.8	18.3	16.7	14.4	13.0
77.5°	19.8	17.5	16.7	15.3	14.4	13.0	11.4	9.9	8.4	7.6	6.1
80°	13.0	11.4	9.9	9.1	8.4	7.6	6.9	5.3	3.8	3.0	2.3
82.5°	7.6	6.9	6.1	5.3	4.6	3.8	3.0	3.0	2.3	1.6	0.7
85°	3.8	3.0	2.3	2.3	1.6	1.6	1.6	0.7	0.7	0.7	0.7
87.5°	1.6	0.7	0.7	0.7	0.7	0.7	0.7	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: P583828

CATALOG NUMBER: HCC8W10D010MW-HM80520940-81WWBB

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	507.1	506.3	505.6	504.8	504.8	503.3	503.3	502.6	501.0	500.3	500.3
5°	502.6	500.3	498.7	498.0	497.1	494.9	494.1	492.6	491.1	489.6	488.9
7.5°	495.7	491.9	490.3	489.6	487.3	485.0	483.4	481.2	478.9	476.6	475.9
10°	487.3	483.4	479.7	478.2	475.9	474.3	471.3	468.3	466.0	463.7	461.4
12.5°	476.6	472.0	468.3	466.7	464.5	461.4	456.9	455.3	451.5	450.0	446.9
15°	464.5	459.2	455.3	453.0	450.8	446.2	443.1	440.1	436.2	434.8	431.6
17.5°	449.2	443.1	439.3	437.0	435.5	431.6	427.1	423.3	419.5	417.9	415.7
20°	430.9	427.1	421.8	419.5	417.9	413.4	408.8	407.4	404.2	401.2	398.9
22.5°	410.4	406.5	401.2	398.9	398.2	394.4	390.5	388.2	386.0	383.7	381.4
25°	389.1	384.5	380.0	378.4	376.8	373.8	370.8	369.3	367.0	365.4	364.0
27.5°	366.2	361.7	357.8	355.6	354.0	351.7	350.3	348.7	347.1	345.7	344.9
30°	341.8	337.3	334.3	332.7	331.2	330.4	328.1	327.4	326.6	325.1	325.9
32.5°	317.4	313.7	310.6	308.3	308.3	306.9	306.0	306.0	305.3	305.3	305.3
35°	290.9	288.6	286.3	285.5	284.8	284.0	283.2	284.0	283.2	284.0	284.8
37.5°	266.5	264.2	262.6	261.9	261.2	261.9	261.2	261.2	261.9	263.5	264.2
40°	241.4	239.8	238.4	239.1	238.4	238.4	238.4	240.6	241.4	242.1	242.9
42.5°	217.8	216.2	215.5	215.5	216.2	215.5	217.0	217.8	219.2	221.5	223.1
45°	195.0	194.1	194.1	195.0	194.1	195.7	195.7	197.2	199.5	201.0	202.5
47.5°	173.6	173.6	173.6	174.4	174.4	175.1	176.7	177.4	179.0	180.4	182.0
50°	153.9	154.6	155.3	155.3	155.3	156.9	158.4	159.1	159.9	160.7	163.0
52.5°	136.3	137.0	137.0	137.7	138.6	139.3	140.0	141.6	142.3	143.9	144.6
55°	119.5	119.5	121.0	121.8	121.8	121.8	123.3	123.3	124.9	125.6	127.2
57.5°	103.5	104.3	104.3	105.1	105.1	105.8	106.6	107.3	108.1	108.9	109.6
60°	88.3	88.3	88.3	89.1	89.8	90.6	89.8	91.4	91.4	92.9	93.6
62.5°	73.8	74.6	74.6	74.6	74.6	74.6	74.6	75.4	76.1	76.9	77.6
65°	60.1	60.1	60.1	59.4	60.1	59.4	60.1	60.9	60.9	61.7	62.4
67.5°	46.4	46.4	45.0	45.0	45.7	45.7	45.7	45.7	45.0	46.4	46.4
70°	33.5	32.7	32.0	31.3	31.3	30.4	30.4	29.7	29.7	29.7	29.7
72.5°	22.1	20.6	19.0	18.3	17.5	17.5	16.0	15.3	16.0	16.0	16.0
75°	11.4	9.9	9.1	8.4	7.6	7.6	6.9	6.9	6.9	6.9	6.9
77.5°	4.6	3.8	3.0	3.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3
80°	1.6	1.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.7	0.0	0.0	0.7	0.0	0.7	0.7	0.7	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: P583828

CATALOG NUMBER: HCC8W10D010MW-HM80520940-81WWBB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	499.4	499.4	498.7	499.4	498.0	498.7	498.0	498.0
5°	488.0	486.6	486.6	486.6	485.7	485.7	485.0	485.0
7.5°	474.3	473.6	472.9	472.0	471.3	470.6	470.6	470.6
10°	460.6	459.2	459.2	458.3	456.9	456.0	456.0	456.0
12.5°	444.6	443.9	443.1	443.1	440.1	440.8	440.1	440.1
15°	429.4	428.6	428.6	426.3	424.8	424.8	424.8	424.1
17.5°	413.4	412.6	411.9	410.4	408.8	408.8	408.1	408.8
20°	396.7	395.9	394.4	394.4	393.7	392.8	391.4	392.1
22.5°	380.0	378.4	377.7	377.7	376.8	376.8	375.4	375.4
25°	362.4	361.7	360.8	361.7	360.1	360.1	358.6	358.6
27.5°	344.1	343.4	343.4	343.4	342.6	343.4	342.6	342.6
30°	325.9	325.9	325.1	325.1	325.9	325.1	325.9	326.6
32.5°	306.0	306.0	306.9	306.9	307.6	307.6	307.6	307.6
35°	285.5	287.0	287.0	287.8	288.6	289.3	289.3	290.0
37.5°	266.5	267.2	268.0	268.8	270.3	270.3	270.3	270.3
40°	245.9	246.7	248.2	247.5	250.5	251.2	250.5	250.5
42.5°	224.7	226.1	226.9	228.4	229.2	230.7	231.5	231.5
45°	204.8	205.5	207.1	208.7	209.4	211.7	211.7	211.7
47.5°	184.3	185.8	186.6	188.1	188.8	191.1	191.8	191.1
50°	164.4	166.0	167.6	167.6	169.8	170.6	172.1	172.8
52.5°	145.4	146.2	147.7	148.4	150.0	151.6	152.3	153.0
55°	127.2	127.9	129.5	129.5	131.7	132.5	134.0	134.0
57.5°	110.3	111.2	112.6	111.9	113.5	114.9	114.9	114.2
60°	94.4	94.4	94.4	95.9	96.6	97.5	98.2	98.2
62.5°	77.6	79.2	79.9	79.9	80.7	81.5	81.5	80.7
65°	62.4	63.9	64.7	64.7	65.5	65.5	65.5	66.2
67.5°	47.2	47.2	47.2	48.0	47.2	47.2	47.2	47.2
70°	29.7	29.7	29.7	29.7	29.0	29.7	29.7	30.4
72.5°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
75°	6.9	6.9	6.9	7.6	6.9	6.9	6.9	6.9
77.5°	3.0	2.3	3.0	3.0	2.3	2.3	2.3	2.3
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.0	0.7	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)