

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: P593548

Luminaire Tested: **HCC8W10D010SL-HM80520950-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W10D010SL-HM80520950-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

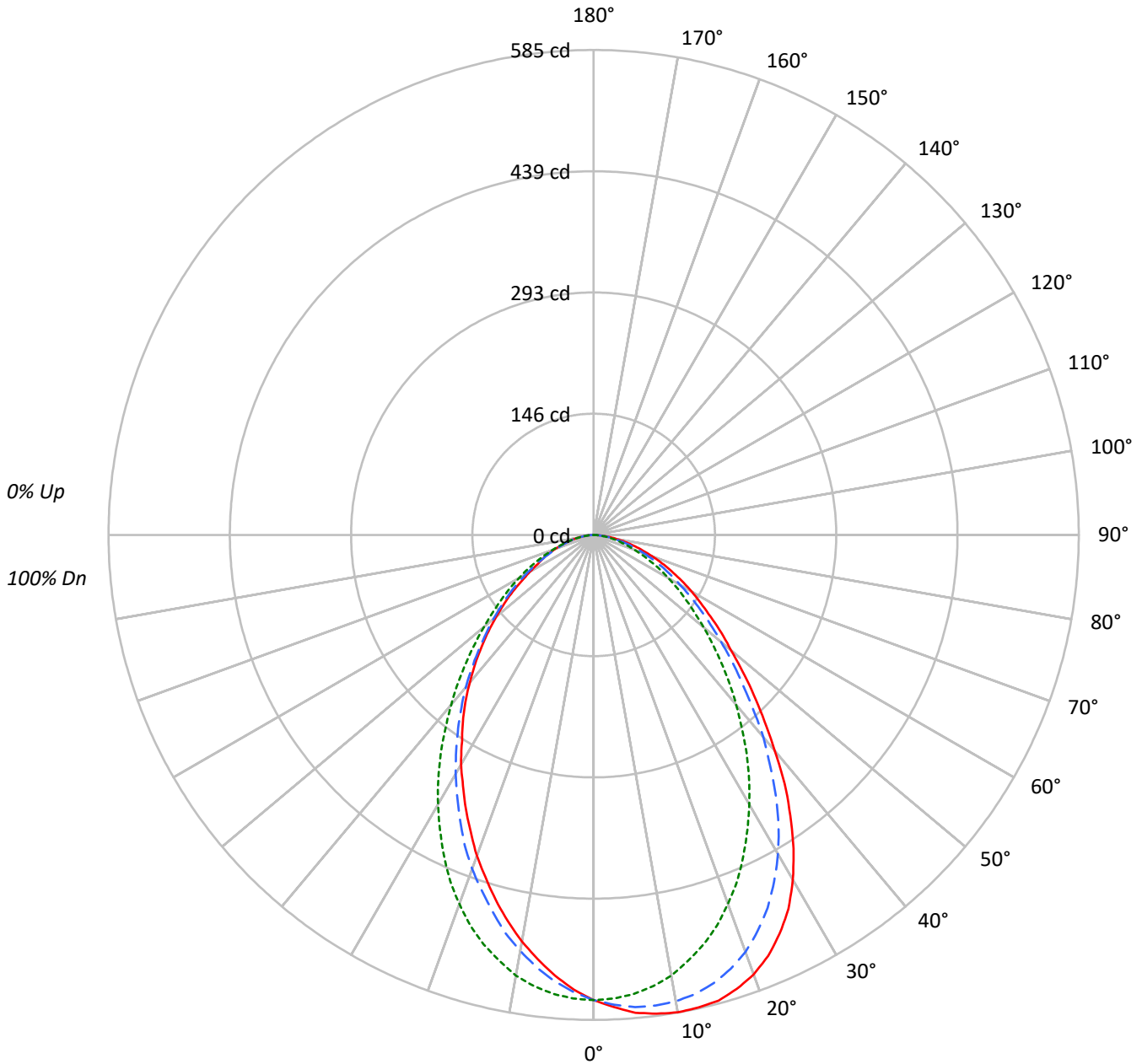
Lumens per Lamp: N/A
Luminaire Lumens: 1035.6 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P593548
CATALOG NUMBER: HCC8W10D010SL-HM80520950-81WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P593548

CATALOG NUMBER: HCC8W10D010SL-HM80520950-81WWW

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76								
3	94	85	78	72	92	83	77	71	81	75	70	78	73	69	75	71	68	66								
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	68	64	60	58								
5	81	69	61	55	79	68	61	55	66	60	54	64	59	54	63	57	53	51								
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46								
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	41								
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38								
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34								
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	17302	17302	17302
5°	17910	17204	16520
10°	18311	16902	15593
15°	18567	16336	14557
20°	18514	15541	13517
25°	18057	14532	12409
30°	17105	13367	11383
35°	15562	12095	10348
40°	13670	10756	9347
45°	11918	9463	8334
50°	10372	8290	7340
55°	9252	7285	6387
60°	8406	6383	5446
65°	7552	5553	4947
70°	6726	4733	4463
75°	5898	3991	3813
80°	4990	3250	3374
85°	3786	2441	2689



TEST NUMBER: P593548
 CATALOG NUMBER: HCC8W10D010SL-HM80520950-81WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	5.1
10°-20°	144.8	14.0
20°-30°	201.0	19.4
30°-40°	207.8	20.1
40°-50°	174.0	16.8
50°-60°	126.3	12.2
60°-70°	79.7	7.7
70°-80°	39.5	3.8
80°-90°	9.8	0.9
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°	398.4	38.5
0°-40°	606.2	58.5
0°-60°	906.6	87.5
0°-90°	1035.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1035.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	561	561	561	561	561	
5°	579	572	556	540	534	55
15°	582	560	512	470	456	164
25°	531	496	427	381	365	243
35°	413	383	321	285	275	257
45°	273	254	217	196	191	211
55°	172	157	136	124	119	155
65°	104	91	76	67	68	103
75°	50	41	34	32	32	53
85°	11	8	7	8	8	13
90°	0	0	0	0	0	

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



TEST NUMBER: P593548

CATALOG NUMBER: HCC8W10D010SL-HM80520950-81WWW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1
2.5°	570.2	570.2	571.1	570.2	570.2	570.2	569.5	569.5	568.8	568.8	567.2
5°	578.6	577.1	578.6	577.1	577.1	577.1	576.4	574.8	574.1	572.5	571.8
7.5°	582.5	581.6	581.6	580.9	580.9	580.2	579.4	578.6	575.6	574.8	572.5
10°	584.8	583.9	583.9	583.2	581.6	581.6	580.2	579.4	575.6	574.1	571.1
12.5°	583.9	583.9	583.9	583.2	580.9	580.2	578.6	576.4	573.4	570.2	567.2
15°	581.6	581.6	580.2	579.4	577.1	575.6	574.8	571.1	567.9	564.2	559.7
17.5°	574.1	574.1	573.4	571.8	569.5	567.9	566.5	562.7	559.7	553.5	549.0
20°	564.2	563.4	562.7	560.4	558.1	557.4	555.1	549.7	545.9	541.4	535.3
22.5°	549.7	549.0	548.2	546.7	542.8	541.4	539.8	536.0	529.1	524.6	517.0
25°	530.7	530.7	529.1	526.8	523.1	521.5	519.3	515.4	509.4	502.6	496.4
27.5°	508.6	507.8	505.6	504.0	501.0	498.7	494.9	490.3	484.3	478.9	471.3
30°	480.4	480.4	478.9	476.6	472.7	471.3	468.2	462.9	456.8	449.9	444.6
32.5°	448.5	448.5	446.2	444.6	442.3	438.5	437.8	431.6	426.3	421.1	414.9
35°	413.4	414.2	412.6	409.6	405.8	405.8	404.2	398.9	392.8	387.5	383.0
37.5°	378.4	376.1	375.4	373.8	371.5	368.5	367.0	364.7	359.4	355.6	348.7
40°	339.6	340.3	338.8	337.3	336.6	334.3	333.4	329.7	325.9	321.3	318.3
42.5°	304.6	304.6	304.6	303.0	301.5	299.2	298.5	296.2	291.6	288.6	284.0
45°	273.3	271.1	271.1	270.3	269.5	268.0	265.8	264.2	261.2	258.9	253.5
47.5°	242.9	243.6	242.9	242.1	239.8	239.1	238.4	235.2	232.2	229.9	226.1
50°	216.2	217.8	216.2	216.2	214.7	214.0	212.4	210.1	207.8	204.1	200.3
52.5°	194.1	194.1	193.4	192.7	190.4	188.8	188.1	187.3	183.5	180.4	177.4
55°	172.1	172.8	172.8	170.6	169.8	168.3	167.6	165.3	163.7	159.1	156.9
57.5°	153.0	152.3	153.0	151.5	150.0	148.4	147.7	146.2	143.9	140.9	137.7
60°	136.3	134.7	134.7	134.0	132.5	131.7	130.2	127.9	125.6	122.6	120.3
62.5°	119.5	118.8	118.0	117.2	115.8	114.9	114.2	111.9	109.6	107.3	105.1
65°	103.5	103.5	102.8	101.2	100.5	99.8	98.9	97.5	94.4	92.9	90.6
67.5°	89.1	88.3	88.3	86.8	85.2	84.5	84.5	82.9	80.7	78.4	76.9
70°	74.6	75.4	74.6	73.8	72.4	72.4	70.8	70.1	67.0	66.2	63.9
72.5°	61.7	61.7	60.9	60.9	59.4	58.7	58.7	57.1	55.5	54.1	52.5
75°	49.5	49.5	49.5	48.7	48.0	46.4	46.4	45.7	44.1	42.7	41.1
77.5°	38.8	38.1	38.1	37.3	36.5	35.8	35.8	35.0	33.5	32.7	31.3
80°	28.1	27.4	27.4	27.4	25.8	26.7	25.8	25.1	24.4	23.6	22.8
82.5°	18.3	19.0	19.0	18.3	17.5	17.5	17.5	16.7	16.7	16.0	15.3
85°	10.7	10.7	10.7	10.7	9.9	9.9	9.9	9.1	9.1	9.1	8.4
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	3.8	3.8	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P593548

CATALOG NUMBER: HCC8W10D010SL-HM80520950-81WWW

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1
2.5°	567.2	565.7	564.9	564.2	564.2	563.4	562.7	561.1	561.1	559.7	558.8
5°	570.2	567.9	566.5	564.9	564.2	562.7	561.1	558.8	558.1	555.8	553.5
7.5°	571.1	567.2	565.7	562.7	561.1	559.7	556.5	554.2	551.2	549.0	545.9
10°	567.9	564.9	561.1	557.4	556.5	554.2	549.7	546.7	542.8	539.8	535.3
12.5°	563.4	558.8	555.1	550.5	548.2	545.9	541.4	536.8	531.4	526.1	521.5
15°	555.8	550.5	545.1	539.8	536.8	534.5	529.1	523.8	518.5	511.7	507.1
17.5°	544.4	538.3	533.0	526.1	523.1	520.8	514.0	507.8	501.0	494.1	489.6
20°	530.0	522.3	516.3	508.6	506.3	502.6	495.7	488.9	481.2	473.6	468.2
22.5°	510.8	503.3	496.4	488.9	485.0	481.2	474.3	465.9	458.3	452.2	446.9
25°	488.9	482.0	473.6	466.7	462.2	457.6	449.9	443.1	436.2	427.1	421.8
27.5°	464.5	456.0	449.9	440.8	436.2	433.2	424.8	415.7	409.6	401.2	395.1
30°	437.0	429.4	422.5	413.4	408.8	405.8	398.2	389.8	383.7	375.4	369.3
32.5°	408.1	399.7	391.4	385.2	380.0	376.8	368.5	363.1	355.6	348.7	341.8
35°	376.8	368.5	362.4	354.0	351.0	348.0	341.1	334.3	327.4	321.3	316.0
37.5°	343.4	337.3	330.4	324.3	322.0	319.0	310.6	304.6	299.2	293.2	288.6
40°	310.6	305.3	300.7	294.6	290.9	288.6	282.5	277.2	271.1	267.2	262.6
42.5°	280.9	274.9	270.3	265.8	261.9	259.6	254.3	250.5	245.9	242.1	236.8
45°	249.8	246.7	241.4	237.5	235.2	232.2	228.4	223.8	220.1	217.0	213.2
47.5°	222.4	219.2	215.5	211.0	209.4	207.1	203.3	200.3	197.2	194.1	190.4
50°	197.2	193.4	190.4	187.3	185.8	183.5	179.7	178.1	175.9	172.8	170.6
52.5°	174.4	171.3	168.3	164.4	163.7	162.1	159.9	156.9	154.6	153.0	151.5
55°	153.7	150.7	148.4	145.4	144.6	143.2	140.0	138.6	137.0	135.5	134.0
57.5°	135.5	132.5	129.5	127.9	126.3	124.9	124.0	121.8	120.3	119.5	118.0
60°	118.8	115.8	113.5	111.2	110.3	109.6	108.1	106.6	105.1	103.5	102.8
62.5°	102.8	99.8	98.2	96.6	95.2	95.2	93.6	92.1	90.6	89.8	88.3
65°	88.3	86.8	84.5	82.2	81.5	81.5	79.2	78.4	77.6	76.1	74.6
67.5°	74.6	73.1	70.8	70.1	69.2	68.5	67.8	66.2	64.7	63.9	62.4
70°	62.4	60.9	59.4	58.7	57.8	57.1	55.5	54.8	53.2	52.5	51.8
72.5°	50.2	49.5	48.0	47.2	46.4	45.7	45.0	44.1	42.7	41.8	41.1
75°	40.4	39.5	38.1	37.3	36.5	36.5	35.8	34.3	33.5	33.5	32.7
77.5°	30.4	29.7	29.0	28.1	27.4	27.4	26.7	25.8	25.1	25.1	24.4
80°	22.1	21.3	20.6	20.6	20.6	19.8	19.0	19.0	18.3	18.3	17.5
82.5°	14.4	14.4	13.7	13.7	13.7	13.0	13.0	12.1	12.1	12.1	12.1
85°	8.4	8.4	8.4	7.6	7.6	7.6	7.6	7.6	7.6	6.9	7.6
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.0	3.0	3.0
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: P593548

CATALOG NUMBER: HCC8W10D010SL-HM80520950-81WWW

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1
2.5°	558.1	557.4	555.8	555.8	554.2	554.2	553.5	552.8	552.0	551.2	550.5
5°	552.8	549.7	548.2	547.4	545.9	545.1	542.8	541.4	540.5	539.1	537.5
7.5°	542.8	539.8	536.8	536.0	535.3	532.2	530.0	527.7	526.1	524.6	523.1
10°	531.4	528.4	524.6	523.1	521.5	517.7	514.7	512.4	509.4	506.3	505.6
12.5°	517.7	513.1	508.6	507.1	504.8	501.0	498.0	494.1	491.9	488.0	487.3
15°	501.7	496.4	492.6	488.9	487.3	483.4	478.2	475.0	470.5	469.0	465.2
17.5°	482.7	477.4	472.0	470.5	468.2	462.9	457.6	453.8	449.2	446.9	444.6
20°	462.9	456.0	450.8	449.2	446.2	441.6	436.2	432.5	428.6	424.1	421.8
22.5°	440.1	432.5	427.9	424.1	423.3	417.9	411.9	408.8	405.8	401.9	398.9
25°	414.9	408.1	402.8	399.7	398.2	393.7	389.1	385.2	380.7	378.4	374.5
27.5°	389.1	384.5	377.7	374.5	372.3	368.5	363.1	360.8	356.3	353.3	351.0
30°	364.0	357.1	353.3	349.4	347.1	343.4	338.8	336.6	332.7	329.7	327.4
32.5°	336.6	332.0	326.6	325.1	322.0	318.3	315.2	311.4	308.3	305.3	304.6
35°	311.4	305.3	300.0	298.5	296.2	292.3	290.9	288.6	284.8	284.0	280.9
37.5°	284.0	280.9	274.9	272.6	271.8	268.8	265.8	264.2	261.9	259.6	258.9
40°	258.1	254.3	251.2	248.9	247.5	245.2	242.1	241.4	239.8	236.8	236.1
42.5°	233.8	229.9	226.9	226.1	223.8	221.5	220.1	217.8	217.0	216.2	214.7
45°	210.1	207.8	204.8	204.1	203.3	200.3	198.7	197.2	195.7	195.0	193.4
47.5°	188.8	186.6	184.3	183.5	182.0	181.3	179.0	178.1	175.9	175.1	174.4
50°	168.3	166.7	165.3	164.4	163.0	162.1	160.7	159.1	157.6	156.9	156.0
52.5°	150.0	148.4	146.9	146.2	145.4	143.9	142.3	140.9	140.0	139.3	138.6
55°	132.5	130.9	130.2	129.5	128.6	127.9	125.6	124.9	124.0	123.3	121.8
57.5°	116.5	114.9	113.5	113.5	112.6	111.9	110.3	108.9	108.9	107.3	105.8
60°	102.0	100.5	98.9	98.2	97.5	95.9	95.2	94.4	93.6	92.9	91.4
62.5°	86.8	86.1	84.5	84.5	82.9	82.2	81.5	80.7	79.9	78.4	77.6
65°	73.8	73.1	71.5	70.8	70.8	70.1	68.5	67.8	67.0	67.0	66.2
67.5°	61.7	60.9	59.4	58.7	58.7	57.8	57.1	57.1	56.4	55.5	56.4
70°	51.0	49.5	49.5	48.7	48.7	48.0	47.2	47.2	47.2	48.0	48.0
72.5°	40.4	39.5	38.8	38.8	38.8	38.8	38.1	38.1	38.8	39.5	39.5
75°	32.0	31.3	31.3	31.3	30.4	30.4	31.3	31.3	32.0	32.0	32.0
77.5°	23.6	23.6	23.6	23.6	23.6	23.6	24.4	24.4	25.1	25.1	25.1
80°	17.5	17.5	17.5	17.5	17.5	18.3	18.3	18.3	18.3	18.3	19.0
82.5°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	13.0	13.0	13.0	13.0
85°	6.9	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
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: P593548

CATALOG NUMBER: HCC8W10D010SL-HM80520950-81WWW

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1
2.5°	549.7	549.7	549.7	550.5	549.0	549.0	549.0	549.0
5°	536.8	536.0	535.3	536.0	534.5	534.5	533.7	533.7
7.5°	520.8	520.0	519.3	519.3	517.7	517.7	517.0	516.3
10°	503.3	501.7	502.6	501.0	500.3	499.4	498.7	498.0
12.5°	484.3	482.7	482.0	480.4	478.9	478.2	478.9	477.4
15°	463.6	461.3	460.6	459.0	457.6	456.8	456.8	456.0
17.5°	440.8	439.3	438.5	437.0	436.2	434.8	433.9	433.2
20°	419.5	415.7	416.5	414.9	414.2	411.1	411.1	411.9
22.5°	395.9	393.7	392.1	390.5	389.8	388.2	388.2	387.5
25°	372.3	370.0	369.3	367.7	367.0	365.4	364.7	364.7
27.5°	349.4	346.4	346.4	344.9	343.4	342.6	341.8	341.1
30°	325.1	322.9	322.0	322.0	321.3	321.3	319.0	319.7
32.5°	302.3	300.7	300.0	298.5	298.5	297.7	297.7	295.5
35°	279.5	277.2	277.9	276.3	275.6	274.9	275.6	274.9
37.5°	257.3	255.8	255.8	254.3	254.3	253.5	252.8	254.3
40°	235.2	234.5	233.8	232.9	233.8	232.9	231.5	232.2
42.5°	213.2	213.2	212.4	212.4	211.7	211.7	211.7	211.7
45°	193.4	192.7	192.7	191.8	191.8	191.8	191.8	191.1
47.5°	173.6	172.8	172.8	172.8	172.1	172.1	171.3	172.1
50°	154.6	154.6	153.7	153.7	154.6	153.7	153.0	153.0
52.5°	137.0	137.0	136.3	136.3	135.5	134.7	135.5	135.5
55°	121.0	120.3	119.5	119.5	118.8	118.0	118.0	118.8
57.5°	105.8	105.1	104.3	104.3	102.8	102.0	102.0	102.0
60°	91.4	89.8	89.8	89.1	89.1	88.3	88.3	88.3
62.5°	77.6	76.9	76.9	76.9	76.9	76.1	76.1	76.1
65°	66.2	66.2	66.2	67.0	67.0	67.8	67.8	67.8
67.5°	57.1	57.8	57.8	57.8	58.7	58.7	58.7	57.8
70°	48.7	48.7	48.7	49.5	49.5	49.5	49.5	49.5
72.5°	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
75°	32.0	32.7	32.7	32.7	32.0	32.7	32.7	32.0
77.5°	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
80°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
82.5°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
85°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
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)