

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: P583770

Luminaire Tested: **HCC8W10D010MW-HM80520927-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W10D010MW-HM80520927-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

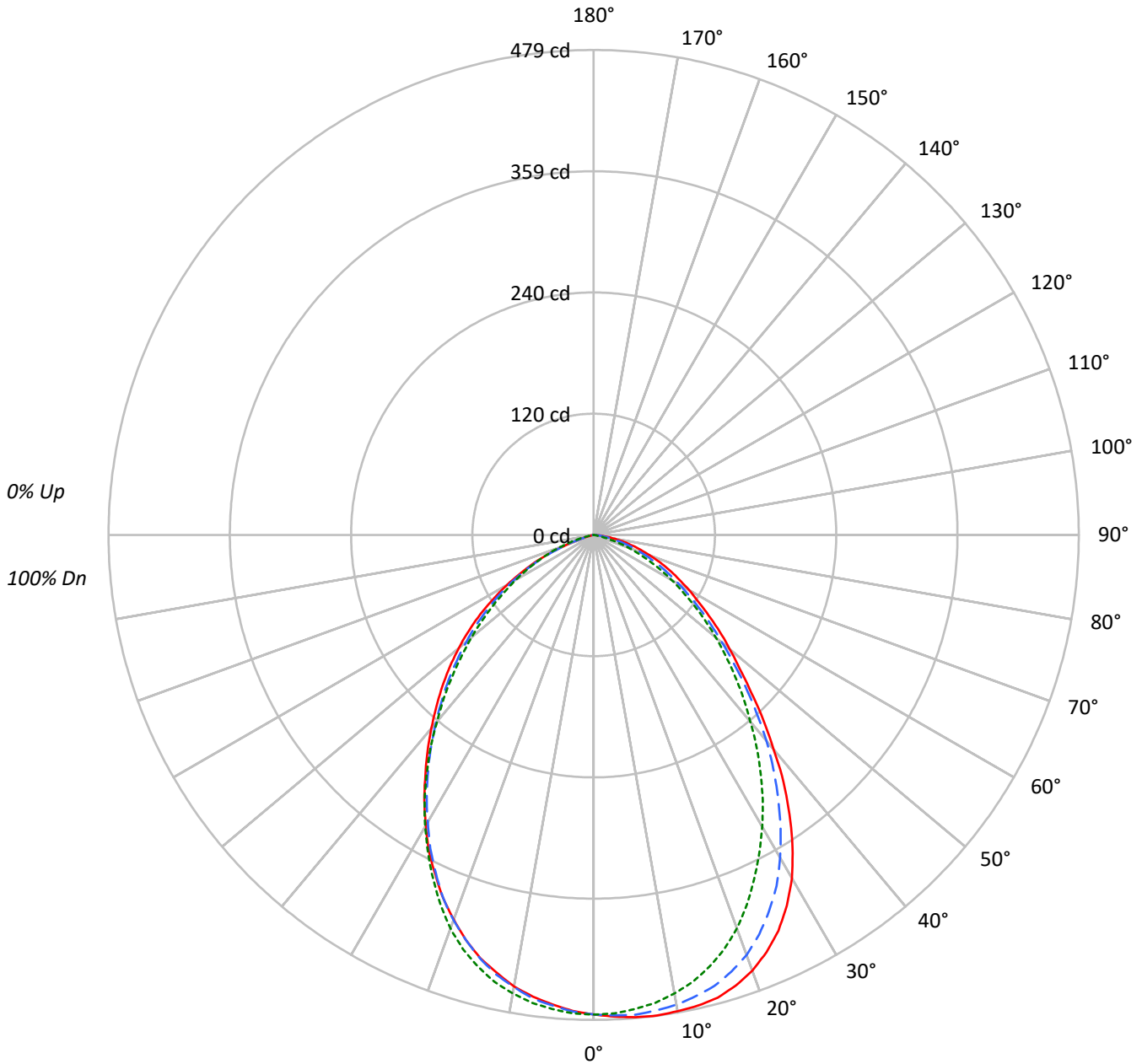
Lumens per Lamp: N/A
Luminaire Lumens: 900.4 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P583770
CATALOG NUMBER: HCC8W10D010MW-HM80520927-81RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P583770

CATALOG NUMBER: HCC8W10D010MW-HM80520927-81RWWC

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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77					77			
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69	67					67			
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	69	65	61	59					59			
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52					52			
6	76	64	56	50	74	63	55	50	61	55	50	60	54	49	58	53	49	47					47			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42					42			
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38					38			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35					35			
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32					32			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	14607	14607	14607
5°	14802	14548	14409
10°	14955	14400	14181
15°	15103	14094	13810
20°	15029	13572	13261
25°	14678	12759	12589
30°	13940	11846	11800
35°	12694	10811	10906
40°	11130	9677	10031
45°	9598	8608	9215
50°	8410	7556	8342
55°	7446	6494	7349
60°	6710	5464	6087
65°	6041	4385	4655
70°	5301	3201	2570
75°	4527	1656	667
80°	3481	444	107
85°	2264	0	0



TEST NUMBER: P583770
 CATALOG NUMBER: HCC8W10D010MW-HM80520927-81RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	5.0
10°-20°	125.7	14.0
20°-30°	178.4	19.8
30°-40°	187.7	20.9
40°-50°	159.7	17.7
50°-60°	115.4	12.8
60°-70°	65.6	7.3
70°-80°	20.7	2.3
80°-90°	2.5	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°	348.7	38.7
0°-40°	536.4	59.6
0°-60°	811.6	90.1
0°-90°	900.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	900.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	474	474	474	474	474	
5°	478	476	470	467	466	46
15°	473	461	442	433	433	133
25°	431	410	375	369	370	198
35°	337	318	287	285	290	210
45°	220	212	197	202	211	171
55°	138	128	121	128	137	125
65°	83	72	60	60	64	82
75°	38	29	14	6	6	41
85°	6	4	0	0	0	8
90°	0	0	0	0	0	



TEST NUMBER: P583770

CATALOG NUMBER: HCC8W10D010MW-HM80520927-81RWWC

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7
2.5°	476.2	477.0	475.6	475.6	477.0	475.6	476.2	476.2	475.6	475.6	475.0
5°	478.2	477.6	477.6	477.6	478.2	477.0	476.2	477.0	475.6	475.6	475.6
7.5°	478.8	478.8	478.2	477.6	477.6	477.6	477.0	476.2	475.6	474.4	473.7
10°	477.6	477.6	478.2	477.0	477.0	475.6	475.6	474.4	474.4	473.1	471.2
12.5°	476.2	475.6	475.6	474.4	474.4	473.1	473.1	471.2	470.6	468.7	466.7
15°	473.1	472.5	471.2	470.6	470.0	469.3	468.1	467.5	465.5	463.0	461.1
17.5°	466.7	466.1	465.5	464.2	463.0	462.4	461.7	459.9	457.4	455.4	452.2
20°	458.0	457.4	457.4	455.4	454.7	452.9	452.2	449.7	447.9	444.0	441.5
22.5°	445.9	446.5	445.3	444.0	442.7	440.9	439.6	437.0	433.9	430.1	427.0
25°	431.4	432.0	430.7	429.5	427.6	426.3	425.0	421.3	418.1	413.6	409.9
27.5°	413.0	413.0	413.0	411.8	408.6	408.0	406.8	402.9	398.5	394.7	390.9
30°	391.5	390.9	390.9	389.0	387.8	385.2	383.3	380.2	376.9	372.5	368.2
32.5°	365.6	366.2	364.3	363.0	361.2	361.2	358.7	356.2	352.3	347.9	343.4
35°	337.2	337.8	336.4	335.8	332.7	332.1	331.4	328.3	325.7	322.6	317.6
37.5°	308.1	307.4	306.8	306.8	304.8	303.6	302.3	300.5	296.7	294.1	291.6
40°	276.5	276.5	276.5	275.7	275.1	273.8	273.2	272.0	269.5	267.0	265.0
42.5°	248.0	248.0	247.3	246.7	245.4	246.0	244.7	243.5	241.0	239.1	237.9
45°	220.1	220.1	220.1	220.7	219.5	217.6	217.6	216.4	215.0	213.8	211.9
47.5°	195.4	197.4	196.0	195.4	196.0	193.5	193.5	192.3	191.0	189.8	187.3
50°	175.3	175.3	175.3	173.9	173.3	173.3	171.4	170.2	169.5	168.3	165.8
52.5°	156.9	155.5	155.5	154.9	154.3	153.0	153.0	151.8	149.3	148.0	146.2
55°	138.5	138.5	137.9	137.3	136.7	135.9	135.3	133.4	132.2	130.3	128.4
57.5°	122.1	123.3	122.7	121.4	120.2	120.2	118.9	117.7	115.8	113.8	111.9
60°	108.8	108.2	108.2	107.6	106.3	105.7	105.1	103.1	101.2	99.3	97.4
62.5°	94.8	94.8	94.8	93.6	92.3	91.7	91.1	89.8	87.3	85.3	84.1
65°	82.8	82.2	81.6	81.0	80.3	79.1	78.5	77.2	75.2	73.3	71.5
67.5°	70.8	70.2	70.2	69.6	67.7	67.1	67.1	65.1	63.2	61.3	59.5
70°	58.8	58.8	58.8	57.6	57.0	56.3	55.7	54.5	52.5	50.6	48.7
72.5°	48.7	48.1	48.1	47.5	45.6	45.0	44.2	43.0	41.1	39.9	38.6
75°	38.0	38.0	37.3	36.7	36.1	35.5	34.7	33.5	31.6	29.7	29.1
77.5°	29.1	28.5	28.5	27.9	26.6	26.0	26.0	24.6	22.7	21.5	20.2
80°	19.6	20.2	19.6	19.0	18.4	17.7	17.1	16.5	15.1	13.9	12.6
82.5°	12.0	12.6	12.0	12.0	11.4	10.7	10.7	9.5	8.9	8.2	7.6
85°	6.4	6.4	6.4	6.4	5.6	5.6	5.6	5.0	4.4	3.8	3.8
87.5°	1.9	2.5	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.3	1.3
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: P583770

CATALOG NUMBER: HCC8W10D010MW-HM80520927-81RWWC

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7
2.5°	475.6	475.0	474.4	474.4	474.4	474.4	474.4	473.7	473.1	473.1	473.1
5°	474.4	474.4	474.4	473.7	473.1	473.1	471.9	471.2	470.6	470.0	469.3
7.5°	473.1	471.9	471.2	470.6	470.0	470.0	468.7	467.5	467.5	466.1	464.9
10°	469.3	468.7	467.5	466.1	465.5	464.9	463.6	461.7	461.1	459.9	458.6
12.5°	464.9	463.6	462.4	459.9	459.2	458.6	456.0	454.1	452.9	452.2	449.1
15°	459.2	456.6	454.7	451.6	451.0	449.7	447.9	445.9	443.4	441.5	440.2
17.5°	449.1	446.5	443.4	440.2	439.0	439.0	435.8	433.3	430.1	428.9	426.3
20°	437.0	433.9	431.4	427.6	425.6	423.8	421.9	418.1	415.5	413.6	410.5
22.5°	423.1	418.8	415.5	411.8	408.6	406.8	403.5	400.4	397.3	395.3	392.8
25°	405.4	401.6	396.5	392.8	390.9	388.4	384.5	381.4	378.3	375.0	373.8
27.5°	385.8	380.8	376.3	371.9	370.0	368.2	363.7	359.9	357.4	354.2	352.9
30°	364.3	359.3	354.2	350.4	348.5	345.3	342.8	338.4	335.2	332.7	329.6
32.5°	339.7	335.8	331.4	325.7	324.4	321.9	318.2	316.2	312.4	310.6	308.1
35°	313.1	310.6	306.1	301.7	299.8	298.6	295.3	291.6	289.1	287.2	285.8
37.5°	287.8	284.6	280.2	277.1	275.7	273.8	270.1	268.2	265.6	264.4	261.9
40°	260.6	257.5	254.2	252.4	250.5	249.2	246.7	244.7	242.2	240.4	239.7
42.5°	234.0	232.1	229.6	227.1	226.5	224.5	223.3	221.4	219.5	218.9	217.0
45°	210.0	208.1	205.5	203.0	202.4	201.1	200.5	198.6	197.4	197.4	197.4
47.5°	185.9	184.0	181.5	180.3	180.9	178.4	178.4	177.8	176.5	176.5	177.1
50°	164.4	161.9	161.3	160.0	158.8	157.5	158.2	156.3	156.3	157.5	156.9
52.5°	144.2	141.7	141.0	139.8	139.2	139.2	138.5	138.5	137.9	138.5	138.5
55°	125.8	123.9	122.7	121.4	120.8	120.8	120.8	120.2	119.6	120.8	121.4
57.5°	109.4	108.8	107.6	105.7	105.1	104.3	103.7	103.7	103.7	103.7	104.3
60°	94.8	93.6	92.3	90.4	90.4	89.8	89.2	88.6	88.6	88.6	88.6
62.5°	82.2	80.3	78.5	77.2	76.6	75.8	75.2	74.0	74.0	74.0	74.0
65°	69.6	67.7	66.5	65.1	63.8	63.8	62.6	62.0	60.7	60.1	58.8
67.5°	57.6	56.3	55.1	53.1	52.5	51.8	50.6	50.0	48.1	47.5	46.8
70°	46.8	45.0	43.6	42.4	41.7	40.5	39.2	38.0	36.7	35.5	34.1
72.5°	36.7	34.7	33.5	32.2	31.0	31.0	29.1	27.9	26.0	24.6	22.7
75°	27.2	25.2	24.0	22.1	21.5	20.9	19.0	17.7	15.9	13.9	12.6
77.5°	18.4	17.1	15.9	13.9	12.6	12.6	10.7	9.5	8.2	6.4	5.6
80°	11.4	10.1	8.9	7.6	7.6	6.4	5.6	4.4	3.1	2.5	1.9
82.5°	6.4	5.6	5.0	3.8	3.8	3.1	2.5	1.9	1.3	0.6	0.6
85°	3.1	2.5	1.9	1.9	1.3	1.3	1.3	0.6	0.6	0.0	0.0
87.5°	1.3	0.6	0.6	0.6	0.6	0.6	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: P583770

CATALOG NUMBER: HCC8W10D010MW-HM80520927-81RWWC

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7
2.5°	472.5	472.5	471.9	471.9	471.9	471.2	471.9	471.2	471.2	471.2	471.9
5°	470.0	468.7	468.7	468.1	468.1	467.5	468.1	467.5	466.7	466.1	466.7
7.5°	464.9	463.6	463.0	462.4	462.4	462.4	461.7	461.1	461.7	459.9	461.1
10°	458.0	457.4	456.0	455.4	454.7	455.4	454.7	453.5	453.5	453.5	452.9
12.5°	449.1	447.9	447.1	446.5	445.3	445.3	445.9	444.6	444.6	443.4	443.4
15°	438.4	437.0	435.8	435.8	434.5	434.5	433.9	433.9	433.3	432.6	432.6
17.5°	425.0	423.1	421.9	422.5	421.9	421.3	421.3	420.0	419.4	420.0	420.0
20°	409.3	408.0	406.8	407.4	406.0	405.4	406.0	404.1	404.8	404.8	404.8
22.5°	391.5	390.9	389.0	389.0	387.8	387.0	387.8	387.8	388.4	387.8	387.8
25°	371.9	370.7	369.4	369.4	368.8	368.2	368.8	369.4	368.8	369.4	369.4
27.5°	351.0	349.2	349.2	347.9	347.9	348.5	347.9	348.5	349.2	349.2	350.4
30°	328.3	327.7	327.1	326.3	326.3	327.1	327.1	327.1	327.7	328.9	328.9
32.5°	306.8	305.5	304.2	304.2	305.5	304.8	305.5	305.5	306.8	306.8	308.1
35°	283.3	283.3	282.1	282.7	282.7	282.7	282.7	284.0	285.2	285.8	287.2
37.5°	261.9	260.0	260.6	260.6	261.2	260.6	262.5	262.5	263.7	263.7	265.0
40°	238.5	238.5	239.1	238.5	239.1	239.1	240.4	241.6	242.2	243.5	244.1
42.5°	216.4	217.6	216.4	217.0	217.6	218.2	218.9	219.5	222.0	223.3	225.1
45°	196.0	196.8	197.4	198.0	197.4	198.6	199.3	200.5	202.4	203.0	203.6
47.5°	176.5	177.1	177.8	178.4	178.4	179.6	180.3	181.5	182.8	183.4	184.0
50°	157.5	158.8	159.4	159.4	160.0	161.3	162.5	162.5	163.8	165.8	166.4
52.5°	140.4	140.4	141.7	142.3	142.9	142.9	144.8	145.4	146.2	147.4	148.7
55°	121.4	123.3	123.9	123.9	125.2	126.5	127.2	127.8	127.8	130.3	130.3
57.5°	105.1	105.7	106.9	106.9	106.9	108.8	108.8	110.1	110.7	111.3	112.6
60°	88.6	89.8	89.8	90.4	89.8	91.1	91.7	93.0	93.6	94.2	94.8
62.5°	73.3	73.3	74.0	74.0	74.0	74.0	75.2	75.2	76.6	77.2	77.8
65°	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	59.5	59.5	60.7
67.5°	45.6	45.0	43.6	44.2	43.6	43.6	43.0	43.0	43.6	43.6	45.0
70°	32.9	32.2	31.0	31.0	30.4	29.7	29.1	28.5	27.9	27.9	27.9
72.5°	21.5	20.2	18.4	17.7	17.7	16.5	15.1	14.5	14.5	14.5	14.5
75°	10.7	9.5	8.2	7.6	7.6	6.4	7.0	6.4	6.4	6.4	6.4
77.5°	4.4	3.1	2.5	2.5	2.5	1.9	1.9	1.9	1.9	1.9	1.9
80°	1.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	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	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



TEST NUMBER: P583770

CATALOG NUMBER: HCC8W10D010MW-HM80520927-81RWWC

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7
2.5°	471.2	471.2	470.0	470.6	470.6	470.6	470.6	470.6
5°	465.5	466.1	465.5	466.1	466.1	465.5	465.5	465.5
7.5°	459.9	460.5	459.9	460.5	460.5	460.5	459.9	459.9
10°	452.9	452.9	452.9	452.9	452.9	452.2	452.9	452.9
12.5°	443.4	443.4	443.4	444.0	444.0	443.4	443.4	442.7
15°	433.3	432.0	432.6	433.3	432.6	432.6	432.6	432.6
17.5°	419.4	420.0	419.4	419.4	419.4	419.4	420.0	419.4
20°	404.8	404.8	405.4	404.8	404.8	404.8	404.8	404.1
22.5°	388.4	387.8	387.8	388.4	388.4	387.8	388.4	388.4
25°	370.0	370.7	370.0	370.0	370.7	370.7	370.7	370.0
27.5°	350.4	351.0	351.7	351.0	351.0	351.0	351.7	352.3
30°	330.2	331.4	330.2	330.2	331.4	330.8	331.4	331.4
32.5°	308.7	310.6	309.3	310.6	310.6	311.2	310.6	311.2
35°	287.2	289.1	289.1	289.1	289.7	290.3	290.3	289.7
37.5°	267.0	267.6	267.6	268.8	269.5	270.1	270.1	269.5
40°	246.0	247.3	248.0	248.0	248.0	249.2	250.5	249.2
42.5°	225.9	226.5	227.1	227.1	228.4	229.0	229.6	229.6
45°	206.1	207.5	208.1	208.7	209.4	210.6	210.0	211.3
47.5°	185.9	187.9	188.5	189.1	190.4	191.0	191.6	192.3
50°	167.6	168.9	168.9	170.2	172.0	172.0	173.3	173.9
52.5°	149.3	149.9	150.5	151.2	152.4	153.7	153.7	154.9
55°	131.6	132.2	132.2	132.8	133.4	135.9	136.7	136.7
57.5°	113.2	113.2	114.4	115.2	115.8	117.0	117.0	117.0
60°	95.6	96.2	96.2	96.8	97.4	98.7	99.3	98.7
62.5°	77.8	78.5	78.5	79.1	80.3	81.0	80.3	80.3
65°	61.3	62.0	62.0	62.6	63.8	63.8	63.2	63.8
67.5°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
70°	28.5	27.9	27.2	27.9	27.9	27.9	27.2	28.5
72.5°	13.9	14.5	14.5	14.5	14.5	14.5	14.5	13.9
75°	6.4	6.4	5.6	5.6	5.6	6.4	6.4	5.6
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	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)