

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: P583787

Luminaire Tested: **HCC8W10D010MB-HM80520930-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583787
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: HCC8W10D010MB-HM80520930-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

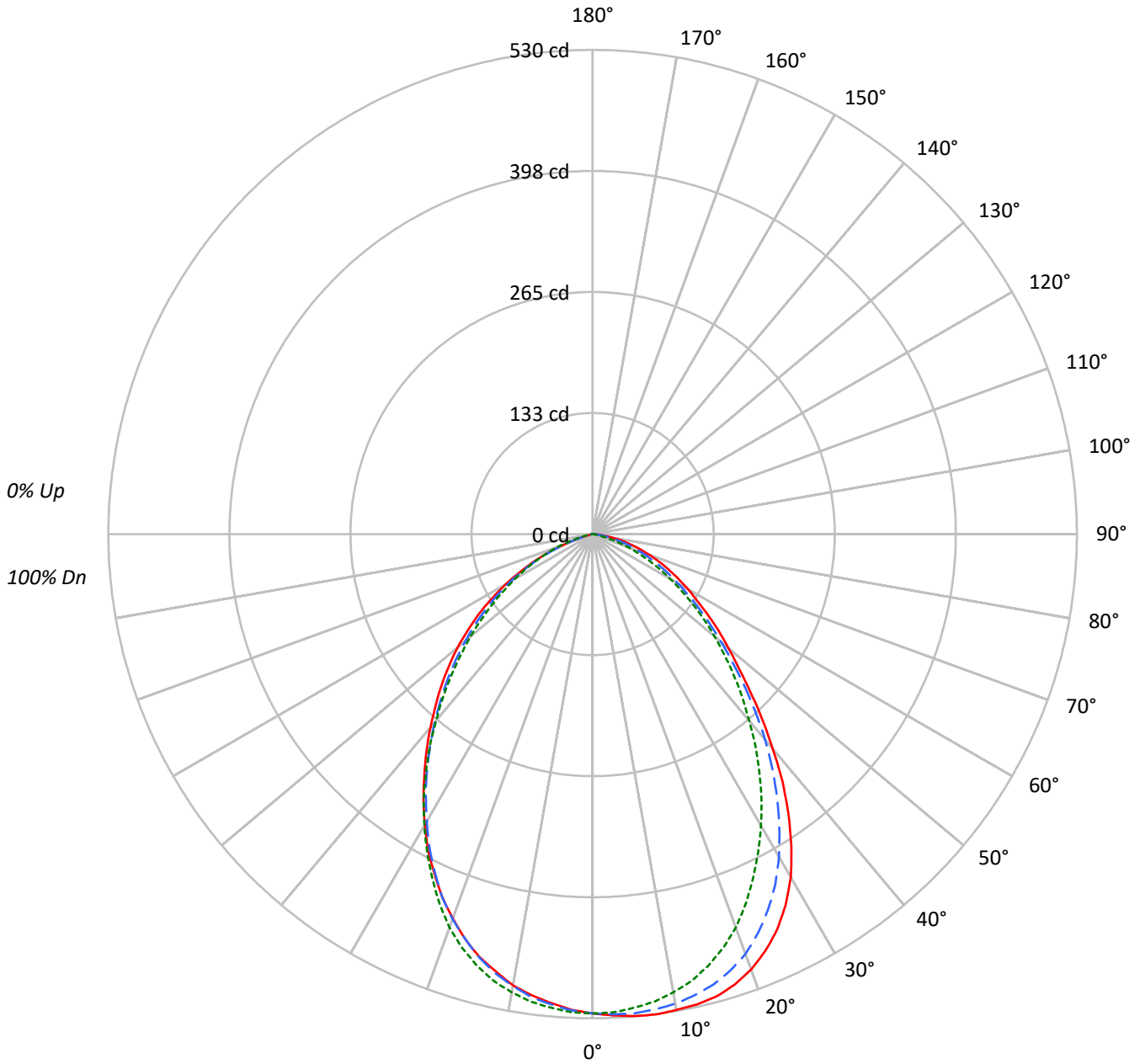
Lumens per Lamp: N/A
Luminaire Lumens: 997.1 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P583787
CATALOG NUMBER: HCC8W10D010MB-HM80520930-81RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P583787

CATALOG NUMBER: HCC8W10D010MB-HM80520930-81RWWC

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	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	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77								
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69	67								
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	69	65	61	59								
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16180	16180	16180
5°	16393	16112	15957
10°	16561	15947	15706
15°	16728	15611	15295
20°	16641	15033	14688
25°	16253	14134	13943
30°	15439	13118	13071
35°	14053	11971	12076
40°	12322	10716	11110
45°	10632	9529	10200
50°	9307	8366	9244
55°	8247	7193	8134
60°	7425	6050	6741
65°	6691	4859	5166
70°	5869	3534	2840
75°	5016	1835	751
80°	3871	497	124
85°	2477	0	0



TEST NUMBER: P583787
 CATALOG NUMBER: HCC8W10D010MB-HM80520930-81RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	5.0
10°-20°	139.2	14.0
20°-30°	197.5	19.8
30°-40°	207.9	20.9
40°-50°	176.9	17.7
50°-60°	127.8	12.8
60°-70°	72.7	7.3
70°-80°	22.9	2.3
80°-90°	2.8	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°	386.2	38.7
0°-40°	594.1	59.6
0°-60°	898.8	90.1
0°-90°	997.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	997.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	525	525	525	525	525	
5°	530	527	520	517	516	51
15°	524	511	489	480	479	148
25°	478	454	415	408	410	219
35°	373	352	318	316	321	232
45°	244	235	218	224	234	189
55°	153	142	134	142	151	138
65°	92	79	67	66	71	91
75°	42	32	15	7	6	45
85°	7	4	0	0	0	9
90°	0	0	0	0	0	



TEST NUMBER: P583787

CATALOG NUMBER: HCC8W10D010MB-HM80520930-81RWWC

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	524.7	524.7	524.7	524.7	524.7	524.7	524.7	524.7	524.7	524.7	524.7
2.5°	527.4	528.2	526.7	526.7	528.2	526.7	527.4	527.4	526.7	526.7	526.1
5°	529.6	528.9	528.9	528.9	529.6	528.2	527.4	528.2	526.7	526.7	526.7
7.5°	530.3	530.3	529.6	528.9	528.9	528.9	528.2	527.4	526.7	525.4	524.7
10°	528.9	528.9	529.6	528.2	528.2	526.7	526.7	525.4	525.4	524.0	521.9
12.5°	527.4	526.7	526.7	525.4	525.4	524.0	524.0	521.9	521.2	519.0	517.0
15°	524.0	523.2	521.9	521.2	520.5	519.7	518.3	517.7	515.5	512.8	510.6
17.5°	517.0	516.3	515.5	514.2	512.8	512.1	511.3	509.3	506.4	504.4	500.9
20°	507.1	506.4	506.4	504.4	503.6	501.6	500.9	498.0	495.9	491.7	489.0
22.5°	493.9	494.5	493.2	491.7	490.3	488.3	486.8	484.0	480.6	476.4	472.9
25°	477.7	478.4	477.1	475.6	473.6	472.1	470.7	466.5	463.0	458.1	453.9
27.5°	457.4	457.4	457.4	456.0	452.6	451.8	450.4	446.2	441.3	437.0	432.8
30°	433.6	432.8	432.8	430.8	429.4	426.6	424.5	420.9	417.5	412.5	407.7
32.5°	404.8	405.6	403.5	402.1	400.0	400.0	397.1	394.4	390.2	385.2	380.3
35°	373.3	374.1	372.6	371.9	368.4	367.8	367.1	363.6	360.7	357.2	351.6
37.5°	341.1	340.4	339.7	339.7	337.6	336.2	334.9	332.7	328.5	325.7	323.0
40°	306.1	306.1	306.1	305.4	304.7	303.3	302.7	301.2	298.5	295.6	293.5
42.5°	274.5	274.5	273.9	273.2	271.8	272.5	271.1	269.7	266.8	264.8	263.4
45°	243.8	243.8	243.8	244.5	243.0	241.0	241.0	239.6	238.1	236.8	234.6
47.5°	216.5	218.5	217.2	216.5	217.2	214.3	214.3	213.0	211.6	210.1	207.3
50°	194.0	194.0	194.0	192.7	192.0	192.0	189.8	188.5	187.8	186.3	183.5
52.5°	173.7	172.4	172.4	171.6	170.9	169.5	169.5	168.2	165.3	164.0	161.8
55°	153.4	153.4	152.7	152.1	151.3	150.6	149.9	147.8	146.4	144.2	142.2
57.5°	135.2	136.5	135.9	134.5	133.1	133.1	131.7	130.3	128.1	126.1	123.9
60°	120.4	119.8	119.8	119.1	117.7	117.0	116.2	114.2	112.0	110.0	107.8
62.5°	105.1	105.1	105.1	103.6	102.3	101.6	100.8	99.5	96.6	94.6	93.2
65°	91.7	91.1	90.4	89.7	88.9	87.5	86.9	85.5	83.3	81.3	79.2
67.5°	78.5	77.8	77.8	77.0	75.0	74.3	74.3	72.1	70.1	67.9	65.9
70°	65.1	65.1	65.1	63.7	63.0	62.4	61.7	60.2	58.2	56.0	54.0
72.5°	54.0	53.2	53.2	52.5	50.5	49.8	49.0	47.6	45.6	44.1	42.7
75°	42.1	42.1	41.3	40.6	39.9	39.2	38.6	37.1	35.0	32.9	32.2
77.5°	32.2	31.5	31.5	30.8	29.4	28.7	28.7	27.3	25.2	23.8	22.4
80°	21.8	22.4	21.8	21.0	20.3	19.6	18.9	18.3	16.8	15.4	14.1
82.5°	13.3	14.1	13.3	13.3	12.6	11.9	11.9	10.5	9.9	9.1	8.4
85°	7.0	7.0	7.0	7.0	6.3	6.3	6.3	5.6	4.9	4.2	4.2
87.5°	2.0	2.8	2.0	2.0	2.0	2.0	2.0	2.0	1.4	1.4	1.4
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: P583787

CATALOG NUMBER: HCC8W10D010MB-HM80520930-81RWWC

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	524.7	524.7	524.7	524.7	524.7	524.7	524.7	524.7	524.7	524.7	524.7
2.5°	526.7	526.1	525.4	525.4	525.4	525.4	525.4	524.7	524.0	524.0	524.0
5°	525.4	525.4	525.4	524.7	524.0	524.0	522.5	521.9	521.2	520.5	519.7
7.5°	524.0	522.5	521.9	521.2	520.5	520.5	519.0	517.7	517.7	516.3	514.8
10°	519.7	519.0	517.7	516.3	515.5	514.8	513.5	511.3	510.6	509.3	507.8
12.5°	514.8	513.5	512.1	509.3	508.6	507.8	505.1	502.9	501.6	500.9	497.4
15°	508.6	505.8	503.6	500.2	499.4	498.0	495.9	493.9	491.0	489.0	487.5
17.5°	497.4	494.5	491.0	487.5	486.1	486.1	482.6	479.8	476.4	474.9	472.1
20°	484.0	480.6	477.7	473.6	471.4	469.4	467.2	463.0	460.2	458.1	454.6
22.5°	468.7	463.7	460.2	456.0	452.6	450.4	446.9	443.4	439.9	437.8	435.0
25°	449.1	444.9	439.2	435.0	432.8	430.1	425.9	422.4	418.9	415.4	414.0
27.5°	427.3	421.7	416.7	411.9	409.8	407.7	402.8	398.6	395.8	392.2	390.9
30°	403.5	397.9	392.2	388.1	386.0	382.5	379.7	374.8	371.3	368.4	364.9
32.5°	376.1	371.9	367.1	360.7	359.4	356.5	352.3	350.3	346.1	343.9	341.1
35°	346.8	343.9	339.1	334.2	332.0	330.7	327.2	323.0	320.1	318.0	316.6
37.5°	318.8	315.2	310.4	306.9	305.4	303.3	299.1	297.0	294.2	292.8	290.0
40°	288.6	285.1	281.6	279.5	277.4	276.0	273.2	271.1	268.3	266.2	265.5
42.5°	259.2	257.1	254.2	251.5	250.7	248.7	247.3	245.2	243.0	242.3	240.3
45°	232.6	230.4	227.7	224.9	224.2	222.7	222.0	220.0	218.5	218.5	218.5
47.5°	205.9	203.9	201.1	199.7	200.4	197.5	197.5	196.9	195.4	195.4	196.2
50°	182.1	179.3	178.6	177.2	175.9	174.4	175.1	173.0	173.0	174.4	173.7
52.5°	159.7	156.9	156.3	154.8	154.1	154.1	153.4	153.4	152.7	153.4	153.4
55°	139.4	137.3	135.9	134.5	133.8	133.8	133.8	133.1	132.3	133.8	134.5
57.5°	121.2	120.4	119.1	117.0	116.2	115.6	114.9	114.9	114.9	114.9	115.6
60°	105.1	103.6	102.3	100.1	100.1	99.5	98.8	98.1	98.1	98.1	98.1
62.5°	91.1	88.9	86.9	85.5	84.7	84.0	83.3	82.0	82.0	82.0	82.0
65°	77.0	75.0	73.6	72.1	70.8	70.8	69.4	68.6	67.2	66.6	65.1
67.5°	63.7	62.4	60.9	58.9	58.2	57.5	56.0	55.3	53.2	52.5	51.8
70°	51.8	49.8	48.3	46.9	46.3	44.8	43.4	42.1	40.6	39.2	37.9
72.5°	40.6	38.6	37.1	35.7	34.4	34.4	32.2	30.8	28.7	27.3	25.2
75°	30.2	28.0	26.6	24.5	23.8	23.1	21.0	19.6	17.5	15.4	14.1
77.5°	20.3	18.9	17.5	15.4	14.1	14.1	11.9	10.5	9.1	7.0	6.3
80°	12.6	11.2	9.9	8.4	8.4	7.0	6.3	4.9	3.5	2.8	2.0
82.5°	7.0	6.3	5.6	4.2	4.2	3.5	2.8	2.0	1.4	0.7	0.7
85°	3.5	2.8	2.0	2.0	1.4	1.4	1.4	0.7	0.7	0.0	0.0
87.5°	1.4	0.7	0.7	0.7	0.7	0.7	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: P583787

CATALOG NUMBER: HCC8W10D010MB-HM80520930-81RWWC

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	524.7	524.7	524.7	524.7	524.7	524.7	524.7	524.7	524.7	524.7	524.7
2.5°	523.2	523.2	522.5	522.5	522.5	521.9	522.5	521.9	521.9	521.9	522.5
5°	520.5	519.0	519.0	518.3	518.3	517.7	518.3	517.7	517.0	516.3	517.0
7.5°	514.8	513.5	512.8	512.1	512.1	512.1	511.3	510.6	511.3	509.3	510.6
10°	507.1	506.4	505.1	504.4	503.6	504.4	503.6	502.2	502.2	502.2	501.6
12.5°	497.4	495.9	495.2	494.5	493.2	493.2	493.9	492.5	492.5	491.0	491.0
15°	485.5	484.0	482.6	482.6	481.3	481.3	480.6	480.6	479.8	479.1	479.1
17.5°	470.7	468.7	467.2	467.9	467.2	466.5	466.5	465.2	464.5	465.2	465.2
20°	453.2	451.8	450.4	451.1	449.7	449.1	449.7	447.6	448.3	448.3	448.3
22.5°	433.6	432.8	430.8	430.8	429.4	428.8	429.4	429.4	430.1	429.4	429.4
25°	411.9	410.5	409.0	409.0	408.4	407.7	408.4	409.0	408.4	409.0	409.0
27.5°	388.7	386.7	386.7	385.2	385.2	386.0	385.2	386.0	386.7	386.7	388.1
30°	363.6	362.9	362.2	361.4	361.4	362.2	362.2	362.2	362.9	364.2	364.2
32.5°	339.7	338.4	336.9	336.9	338.4	337.6	338.4	338.4	339.7	339.7	341.1
35°	313.8	313.8	312.4	313.1	313.1	313.1	313.1	314.6	315.9	316.6	318.0
37.5°	290.0	287.9	288.6	288.6	289.3	288.6	290.6	290.6	292.1	292.1	293.5
40°	264.1	264.1	264.8	264.1	264.8	264.8	266.2	267.6	268.3	269.7	270.3
42.5°	239.6	241.0	239.6	240.3	241.0	241.7	242.3	243.0	245.9	247.3	249.4
45°	217.2	217.8	218.5	219.2	218.5	220.0	220.7	222.0	224.2	224.9	225.6
47.5°	195.4	196.2	196.9	197.5	197.5	198.9	199.7	201.1	202.4	203.1	203.9
50°	174.4	175.9	176.6	176.6	177.2	178.6	180.1	180.1	181.4	183.5	184.3
52.5°	155.5	155.5	156.9	157.6	158.3	158.3	160.5	161.1	161.8	163.2	164.7
55°	134.5	136.5	137.3	137.3	138.7	140.2	140.8	141.5	141.5	144.2	144.2
57.5°	116.2	117.0	118.4	118.4	118.4	120.4	120.4	121.9	122.6	123.3	124.6
60°	98.1	99.5	99.5	100.1	99.5	100.8	101.6	103.0	103.6	104.3	105.1
62.5°	81.3	81.3	82.0	82.0	82.0	82.0	83.3	83.3	84.7	85.5	86.2
65°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.9	65.9	67.2
67.5°	50.5	49.8	48.3	49.0	48.3	48.3	47.6	47.6	48.3	48.3	49.8
70°	36.4	35.7	34.4	34.4	33.7	32.9	32.2	31.5	30.8	30.8	30.8
72.5°	23.8	22.4	20.3	19.6	19.6	18.3	16.8	16.1	16.1	16.1	16.1
75°	11.9	10.5	9.1	8.4	8.4	7.0	7.7	7.0	7.0	7.0	7.0
77.5°	4.9	3.5	2.8	2.8	2.8	2.0	2.0	2.0	2.0	2.0	2.0
80°	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	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

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



TEST NUMBER: P583787

CATALOG NUMBER: HCC8W10D010MB-HM80520930-81RWWC

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	524.7	524.7	524.7	524.7	524.7	524.7	524.7	524.7
2.5°	521.9	521.9	520.5	521.2	521.2	521.2	521.2	521.2
5°	515.5	516.3	515.5	516.3	516.3	515.5	515.5	515.5
7.5°	509.3	510.0	509.3	510.0	510.0	510.0	509.3	509.3
10°	501.6	501.6	501.6	501.6	501.6	500.9	501.6	501.6
12.5°	491.0	491.0	491.0	491.7	491.7	491.0	491.0	490.3
15°	479.8	478.4	479.1	479.8	479.1	479.1	479.1	479.1
17.5°	464.5	465.2	464.5	464.5	464.5	464.5	465.2	464.5
20°	448.3	448.3	449.1	448.3	448.3	448.3	448.3	447.6
22.5°	430.1	429.4	429.4	430.1	430.1	429.4	430.1	430.1
25°	409.8	410.5	409.8	409.8	410.5	410.5	410.5	409.8
27.5°	388.1	388.7	389.4	388.7	388.7	388.7	389.4	390.2
30°	365.6	367.1	365.6	365.6	367.1	366.4	367.1	367.1
32.5°	341.8	343.9	342.6	343.9	343.9	344.6	343.9	344.6
35°	318.0	320.1	320.1	320.1	320.8	321.5	321.5	320.8
37.5°	295.6	296.3	296.3	297.7	298.5	299.1	299.1	298.5
40°	272.5	273.9	274.5	274.5	274.5	276.0	277.4	276.0
42.5°	250.0	250.7	251.5	251.5	252.9	253.6	254.2	254.2
45°	228.4	229.7	230.4	231.1	231.9	233.3	232.6	233.9
47.5°	205.9	208.1	208.8	209.4	210.8	211.6	212.3	213.0
50°	185.6	187.0	187.0	188.5	190.5	190.5	192.0	192.7
52.5°	165.3	166.0	166.7	167.4	168.8	170.2	170.2	171.6
55°	145.7	146.4	146.4	147.1	147.8	150.6	151.3	151.3
57.5°	125.4	125.4	126.8	127.5	128.1	129.6	129.6	129.6
60°	105.8	106.5	106.5	107.2	107.8	109.3	110.0	109.3
62.5°	86.2	86.9	86.9	87.5	88.9	89.7	88.9	88.9
65°	67.9	68.6	68.6	69.4	70.8	70.8	70.1	70.8
67.5°	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
70°	31.5	30.8	30.2	30.8	30.8	30.8	30.2	31.5
72.5°	15.4	16.1	16.1	16.1	16.1	16.1	16.1	15.4
75°	7.0	7.0	6.3	6.3	6.3	7.0	7.0	6.3
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)