

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: P583728

Luminaire Tested: **HCC8W10D010MW-HM80520830-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W10D010MW-HM80520830-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

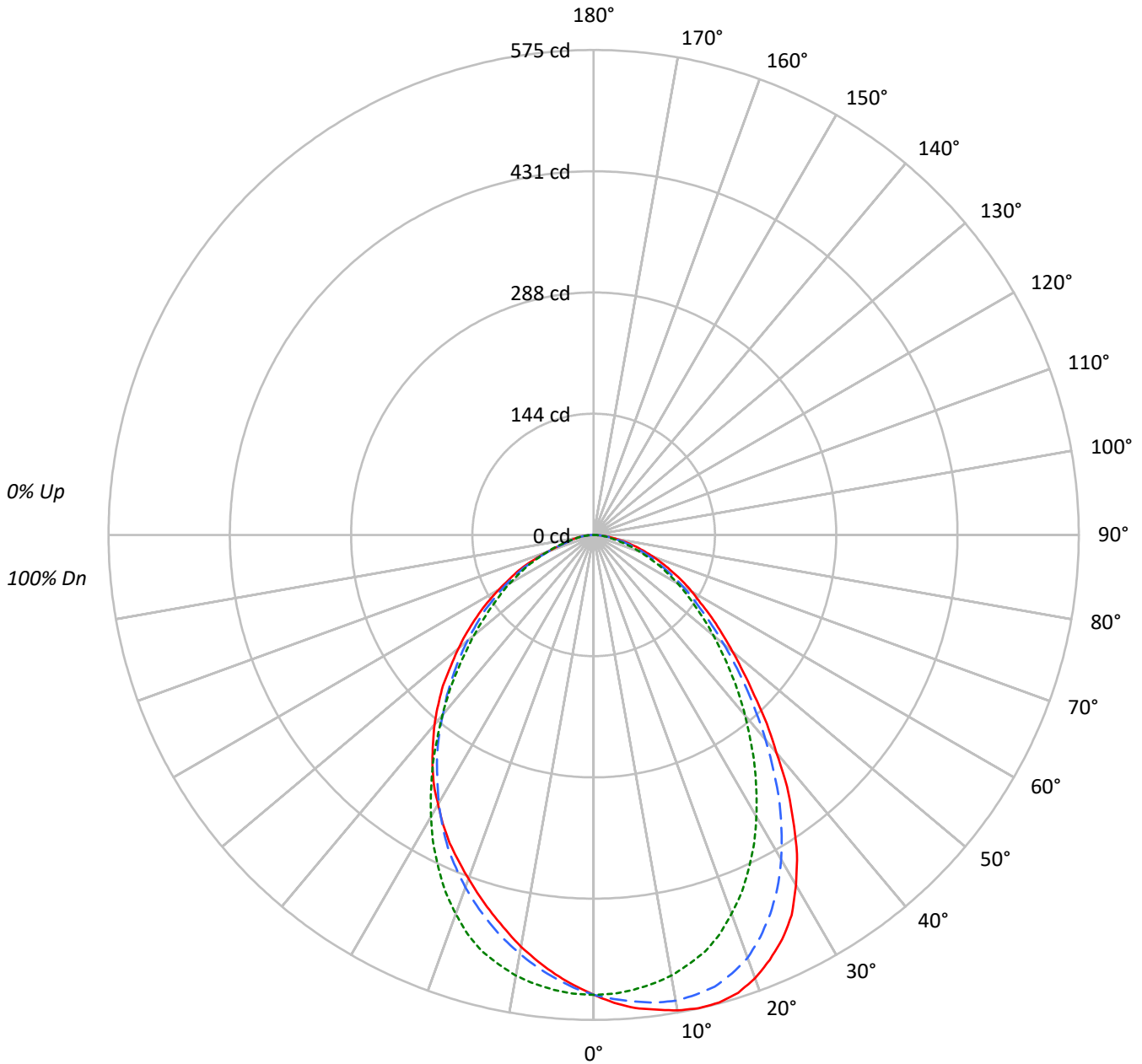
Lumens per Lamp: N/A
Luminaire Lumens: 1096.7 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P583728
CATALOG NUMBER: HCC8W10D010MW-HM80520830-81WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P583728

CATALOG NUMBER: HCC8W10D010MW-HM80520830-81WWWB

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	92	91	89	87								
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75								
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65								
4	87	76	68	62	84	75	67	61	72	66	61	70	64	60	68	63	59	57								
5	80	69	60	54	78	67	60	54	65	59	54	64	58	53	62	57	52	50								
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45								
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40								
8	65	52	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37								
9	61	48	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33								
10	57	45	38	33	56	44	37	33	44	37	32	43	37	32	42	36	32	30								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16815	16815	16815
5°	17430	16759	16186
10°	17923	16614	15521
15°	18324	16320	14835
20°	18354	15682	14235
25°	17999	14814	13729
30°	17073	13734	13128
35°	15509	12513	12539
40°	13562	11227	11815
45°	11757	9995	11011
50°	10295	8880	10031
55°	9161	7871	9080
60°	8264	7074	7974
65°	7464	6217	6954
70°	6708	5238	5166
75°	5898	4158	3884
80°	4954	3445	3711
85°	3821	3007	3290



TEST NUMBER: P583728

CATALOG NUMBER: HCC8W10D010MW-HM80520830-81WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	4.7
10°-20°	144.9	13.2
20°-30°	207.1	18.9
30°-40°	220.0	20.1
40°-50°	189.4	17.3
50°-60°	141.6	12.9
60°-70°	90.3	8.2
70°-80°	41.1	3.7
80°-90°	10.8	1.0
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°	403.4	36.8
0°-40°	623.4	56.8
0°-60°	954.5	87.0
0°-90°	1096.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1096.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	545	545	545	545	545	
5°	563	555	541	527	523	54
15°	574	555	511	476	465	162
25°	529	496	435	409	404	242
35°	412	383	332	324	333	257
45°	270	255	229	236	252	210
55°	170	156	146	159	169	153
65°	102	91	85	89	95	102
75°	50	43	35	32	33	53
85°	11	9	8	9	9	13
90°	0	0	0	0	0	

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



TEST NUMBER: P583728

CATALOG NUMBER: HCC8W10D010MW-HM80520830-81WWWB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3
2.5°	555.3	553.9	554.6	553.9	554.6	554.6	553.0	553.0	553.0	553.0	550.8
5°	563.1	562.3	562.3	561.6	560.9	561.6	560.9	560.0	558.4	557.7	555.3
7.5°	567.8	567.8	567.8	567.8	567.0	566.3	565.4	563.9	562.3	560.9	559.3
10°	572.4	573.2	572.4	571.7	570.8	569.3	568.5	567.0	564.7	562.3	560.9
12.5°	574.8	574.8	574.0	574.0	572.4	571.7	569.3	567.0	564.7	562.3	558.4
15°	574.0	574.0	573.2	572.4	570.1	569.3	567.8	565.4	561.6	558.4	554.6
17.5°	569.3	568.5	567.0	567.0	563.9	563.1	561.6	558.4	554.6	549.9	545.3
20°	559.3	559.3	558.4	557.7	554.6	552.3	550.8	546.9	543.8	538.4	533.7
22.5°	545.3	546.9	545.3	543.8	539.9	539.1	536.8	532.1	527.4	521.3	515.9
25°	529.0	528.3	527.4	526.0	522.9	521.3	518.2	513.5	508.9	502.0	495.7
27.5°	508.1	505.1	505.1	502.0	499.6	497.3	495.7	491.1	484.9	479.5	471.7
30°	479.5	480.2	476.4	475.6	471.7	470.2	467.1	462.4	457.0	450.8	444.6
32.5°	448.5	446.2	446.2	443.1	439.9	437.6	436.8	431.4	426.8	420.6	414.4
35°	412.0	412.0	409.8	408.9	405.9	404.4	401.9	398.9	393.5	388.1	383.4
37.5°	376.5	374.9	374.2	372.6	370.2	367.9	367.9	362.5	361.7	355.6	349.3
40°	336.9	338.5	336.9	334.6	333.8	332.4	331.5	328.4	326.1	320.7	316.8
42.5°	303.6	302.1	302.1	301.3	298.2	298.2	296.7	295.1	291.2	289.7	285.0
45°	269.6	271.1	268.8	269.6	266.5	266.5	266.5	263.4	260.2	257.9	254.8
47.5°	240.2	240.9	240.9	238.6	237.8	237.8	236.2	234.8	232.3	229.2	226.9
50°	214.6	215.3	213.8	213.0	211.4	210.7	210.7	207.6	206.0	202.9	201.3
52.5°	191.4	191.4	190.5	190.5	188.2	188.2	186.7	184.4	182.8	181.3	177.4
55°	170.4	170.4	169.6	168.9	168.9	166.5	165.8	163.5	161.9	158.8	156.5
57.5°	150.2	151.1	150.2	149.5	148.7	148.0	146.4	144.1	142.6	140.2	138.6
60°	134.0	134.0	133.2	132.5	130.9	130.2	129.3	127.8	125.5	123.9	121.6
62.5°	118.5	117.8	117.0	116.2	114.7	114.7	113.1	111.5	109.3	107.7	106.1
65°	102.3	102.3	101.4	101.4	100.7	99.2	98.3	97.6	94.5	93.8	90.6
67.5°	87.5	88.3	86.8	86.8	85.2	85.2	84.4	82.1	81.4	79.8	78.3
70°	74.4	74.4	74.4	73.6	72.0	71.3	70.4	69.0	68.2	66.6	65.0
72.5°	61.2	61.2	60.5	60.5	59.6	58.9	58.1	56.5	56.5	55.1	53.5
75°	49.5	49.5	48.8	48.1	47.2	47.2	46.5	45.7	44.1	43.4	42.6
77.5°	38.0	38.0	38.0	37.1	36.4	36.4	36.4	34.9	33.3	33.3	32.6
80°	27.9	27.9	27.2	27.2	26.3	26.3	26.3	25.6	24.8	24.0	23.2
82.5°	18.6	18.6	18.6	18.6	17.8	17.8	17.8	17.1	16.2	16.2	16.2
85°	10.8	10.8	10.8	10.8	10.1	10.1	10.1	10.1	10.1	9.3	9.3
87.5°	4.7	3.8	4.7	3.8	4.7	3.8	4.7	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

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



TEST NUMBER: P583728

CATALOG NUMBER: HCC8W10D010MW-HM80520830-81WWWB

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3
2.5°	551.5	550.8	549.9	549.2	549.2	548.4	546.9	546.1	545.3	544.5	544.5
5°	554.6	553.9	552.3	550.8	549.9	548.4	546.9	545.3	543.8	541.4	540.7
7.5°	556.9	554.6	553.0	549.9	549.2	547.6	545.3	542.9	539.9	536.8	534.4
10°	556.9	553.9	551.5	547.6	546.1	544.5	541.4	537.5	533.7	530.6	526.7
12.5°	555.3	551.5	547.6	543.8	541.4	539.1	534.4	530.6	526.0	521.3	518.2
15°	549.9	545.3	540.7	536.0	533.7	530.6	526.0	520.5	515.9	511.2	505.8
17.5°	539.9	535.3	529.8	524.4	521.3	519.0	512.1	508.1	501.1	496.5	491.9
20°	526.7	521.3	514.3	508.9	505.1	502.7	497.3	490.3	484.9	477.9	473.2
22.5°	509.6	502.7	495.7	490.3	486.4	483.3	476.4	469.4	464.7	458.6	453.2
25°	489.6	482.6	475.6	467.8	464.0	460.8	454.7	448.5	442.3	435.4	430.7
27.5°	465.5	457.7	451.6	444.6	440.8	436.1	429.1	422.9	416.7	412.0	405.9
30°	439.2	430.7	424.4	417.5	413.6	409.8	402.8	396.5	391.1	385.7	382.6
32.5°	407.5	401.2	395.1	388.1	385.0	382.6	375.6	369.5	363.2	358.7	356.3
35°	377.2	370.2	364.8	358.7	354.7	352.4	346.3	340.8	337.8	332.4	329.2
37.5°	345.5	340.0	333.8	327.7	325.4	323.0	318.4	312.9	308.3	304.5	302.9
40°	312.2	307.5	302.1	298.2	295.9	293.5	289.7	285.8	282.7	278.9	277.3
42.5°	280.4	277.3	272.6	268.0	265.6	264.9	260.2	257.1	255.7	254.1	252.5
45°	251.7	247.1	244.0	240.9	238.6	237.0	234.8	232.3	230.8	229.2	227.8
47.5°	223.8	220.0	216.8	214.6	212.3	211.4	209.9	207.6	206.0	206.0	206.0
50°	198.3	195.2	192.1	190.5	189.8	188.2	186.7	185.9	185.1	185.1	185.1
52.5°	175.9	172.7	170.4	168.9	168.9	167.3	165.8	165.0	165.0	165.0	165.0
55°	154.9	152.5	151.1	149.5	148.0	147.1	147.1	147.1	146.4	146.4	147.1
57.5°	136.3	134.7	132.5	130.9	130.2	130.2	129.3	128.6	129.3	130.2	130.9
60°	119.2	117.8	117.0	114.7	114.7	114.7	113.8	113.8	113.8	114.7	115.4
62.5°	103.9	103.0	101.4	100.7	99.9	99.9	99.2	99.2	99.2	99.2	99.9
65°	89.9	88.3	86.8	86.8	86.8	85.9	85.9	84.4	85.2	85.2	84.4
67.5°	76.7	75.1	74.4	73.6	72.8	72.8	72.0	71.3	70.4	70.4	70.4
70°	64.3	62.7	62.7	61.2	61.2	60.5	59.6	59.6	58.9	58.1	57.3
72.5°	51.9	51.1	50.4	49.5	49.5	49.5	48.8	48.1	47.2	46.5	45.0
75°	41.1	41.1	39.5	38.7	38.7	38.0	37.1	36.4	35.6	34.9	34.1
77.5°	31.7	31.0	29.4	28.6	28.6	28.6	27.9	27.2	26.3	25.6	24.8
80°	23.2	22.5	21.6	20.9	20.9	20.9	20.2	20.2	19.4	19.4	19.4
82.5°	15.5	15.5	14.7	14.7	14.7	14.7	13.9	13.9	13.9	13.9	13.9
85°	9.3	9.3	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	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

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



TEST NUMBER: P583728

CATALOG NUMBER: HCC8W10D010MW-HM80520830-81WWWB

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3
2.5°	542.9	542.9	541.4	540.7	539.9	540.7	539.1	538.4	537.5	537.5	536.8
5°	538.4	537.5	534.4	533.7	533.0	532.1	530.6	529.0	527.4	526.7	526.0
7.5°	532.1	529.8	526.7	526.0	525.2	522.9	520.5	519.0	516.6	515.9	514.3
10°	523.6	520.5	518.2	515.9	514.3	512.1	509.6	507.4	504.2	503.5	501.1
12.5°	513.5	509.6	505.1	504.2	502.0	498.8	495.7	493.4	491.1	489.6	487.2
15°	501.1	497.3	492.6	490.3	488.0	485.6	481.8	478.6	476.4	474.1	471.7
17.5°	486.4	481.8	477.9	475.6	474.1	470.2	467.1	463.3	460.8	458.6	456.3
20°	468.7	464.7	459.3	457.0	456.3	453.2	449.3	447.7	444.6	442.3	440.8
22.5°	448.5	444.6	439.9	438.4	435.4	433.8	429.8	428.4	426.8	424.4	423.7
25°	426.0	422.1	418.3	417.5	415.2	413.6	411.3	408.9	408.9	406.6	406.6
27.5°	402.8	398.9	395.8	394.3	393.5	392.0	389.6	388.8	388.1	387.3	387.3
30°	378.0	373.3	371.8	371.1	370.2	368.7	367.9	366.4	367.2	367.9	367.2
32.5°	351.7	350.1	347.0	345.5	346.3	345.5	343.9	345.5	344.7	346.3	347.0
35°	326.1	324.5	323.0	323.0	321.4	321.4	321.4	322.3	323.8	324.5	326.1
37.5°	301.3	298.9	298.2	297.5	298.2	298.2	298.2	299.8	301.3	302.9	305.2
40°	275.0	273.5	273.5	273.5	273.5	275.7	275.0	276.6	278.0	280.4	282.7
42.5°	250.1	250.1	251.0	251.0	251.0	251.0	252.5	254.8	257.1	259.5	261.8
45°	226.9	226.9	226.9	228.5	228.5	229.2	232.3	233.9	235.5	237.8	240.2
47.5°	205.3	205.3	206.0	206.9	207.6	209.1	210.7	213.0	215.3	216.8	219.2
50°	185.1	185.9	187.4	189.0	189.0	189.8	192.1	193.6	195.2	197.5	198.3
52.5°	165.8	167.3	168.9	169.6	170.4	172.0	172.7	175.0	175.9	178.1	179.0
55°	148.0	148.7	151.1	151.8	151.8	153.4	154.9	156.5	158.8	158.8	160.3
57.5°	131.7	132.5	134.0	134.7	134.0	136.3	137.1	138.6	139.4	141.0	141.7
60°	115.4	117.0	117.8	117.8	118.5	119.2	120.8	120.8	122.4	123.9	123.9
62.5°	99.9	100.7	101.4	102.3	103.0	102.3	104.6	104.6	106.1	106.9	108.4
65°	85.2	85.9	85.9	86.8	86.8	87.5	87.5	88.3	89.1	90.6	91.4
67.5°	70.4	70.4	70.4	71.3	70.4	71.3	71.3	72.0	72.0	73.6	74.4
70°	57.3	56.5	55.8	55.8	55.8	55.8	55.1	55.8	55.8	56.5	56.5
72.5°	44.1	43.4	42.6	41.8	41.8	41.1	40.3	41.1	41.1	41.8	41.8
75°	33.3	31.7	31.7	31.7	31.0	31.0	31.0	31.7	31.7	31.7	32.6
77.5°	24.8	24.8	24.0	24.0	24.0	24.8	24.8	25.6	25.6	25.6	25.6
80°	18.6	19.4	19.4	19.4	19.4	20.2	20.2	20.2	20.2	20.9	20.9
82.5°	13.9	13.9	13.9	13.9	14.7	14.7	14.7	14.7	14.7	14.7	14.7
85°	8.5	9.3	9.3	8.5	9.3	9.3	9.3	9.3	9.3	9.3	9.3
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	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: P583728

CATALOG NUMBER: HCC8W10D010MW-HM80520830-81WWWB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3
2.5°	536.0	536.0	536.0	536.0	535.3	535.3	535.3	534.4
5°	524.4	524.4	524.4	522.9	523.6	523.6	522.0	522.9
7.5°	512.8	512.1	511.2	511.2	510.5	509.6	508.9	509.6
10°	499.6	497.3	497.3	496.5	496.5	495.0	495.0	495.7
12.5°	484.9	483.3	483.3	482.6	481.8	481.0	480.2	480.2
15°	470.2	468.7	467.8	467.1	466.3	464.7	465.5	464.7
17.5°	455.4	453.2	453.2	452.3	451.6	450.0	450.0	449.3
20°	438.4	437.6	436.1	436.8	436.1	434.5	433.8	433.8
22.5°	421.4	421.4	420.6	420.6	419.9	419.0	418.3	418.3
25°	405.1	404.4	405.1	405.1	402.8	402.8	402.8	403.5
27.5°	386.6	387.3	386.6	386.6	386.6	386.6	387.3	386.6
30°	367.9	367.9	367.9	368.7	370.2	369.5	369.5	368.7
32.5°	347.7	348.6	348.6	349.3	350.1	351.7	351.7	352.4
35°	327.7	329.2	329.9	329.2	331.5	331.5	333.1	333.1
37.5°	306.8	307.5	309.0	309.9	311.4	312.2	312.9	312.9
40°	284.3	287.4	288.1	289.0	291.2	291.2	292.0	293.5
42.5°	263.4	266.5	267.2	268.0	269.6	271.9	271.1	272.6
45°	243.2	245.6	246.3	247.1	249.4	250.1	250.1	252.5
47.5°	221.5	223.1	223.8	225.4	226.9	228.5	230.1	229.2
50°	199.9	202.2	203.7	204.5	206.9	207.6	208.3	209.1
52.5°	180.4	182.0	182.8	183.5	185.9	186.7	187.4	189.0
55°	161.9	162.6	164.2	163.5	165.8	166.5	167.3	168.9
57.5°	143.3	144.1	144.8	144.8	146.4	148.0	148.7	149.5
60°	125.5	127.1	127.8	127.8	127.8	129.3	129.3	129.3
62.5°	109.3	109.3	110.0	110.0	111.5	111.5	111.5	111.5
65°	92.2	92.9	93.8	93.8	95.3	94.5	96.0	95.3
67.5°	74.4	74.4	76.0	76.0	75.1	76.0	76.0	76.0
70°	56.5	56.5	57.3	57.3	57.3	57.3	57.3	57.3
72.5°	41.8	41.8	41.8	42.6	41.8	41.8	42.6	41.8
75°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
77.5°	25.6	25.6	26.3	26.3	26.3	26.3	26.3	26.3
80°	20.9	20.9	20.9	20.9	21.6	20.9	20.9	20.9
82.5°	15.5	14.7	15.5	14.7	15.5	15.5	15.5	15.5
85°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
87.5°	3.8	3.8	3.8	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

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)