

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: P583743

Luminaire Tested: **HCC8W10D010MW-HM80520835-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583743
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-HM80520835-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

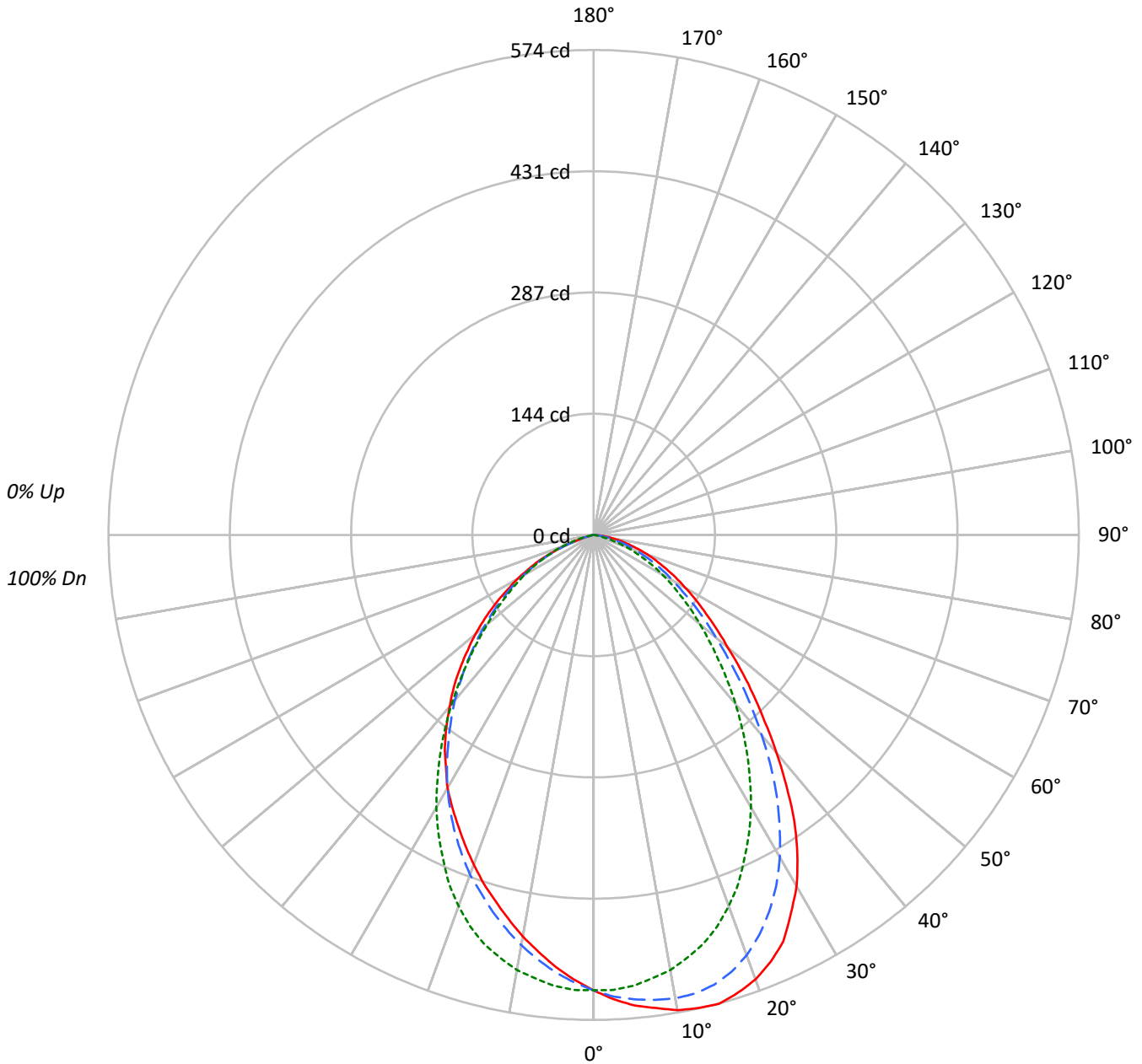
Lumens per Lamp: N/A
Luminaire Lumens: 1004.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (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: P583743
CATALOG NUMBER: HCC8W10D010MW-HM80520835-81WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P583743

CATALOG NUMBER: HCC8W10D010MW-HM80520835-81WWBB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	16621	16621	16621
5°	17310	16582	15889
10°	17885	16373	15111
15°	18337	15997	14324
20°	18373	15335	13615
25°	18063	14362	12912
30°	17098	13256	12309
35°	15588	11918	11557
40°	13558	10510	10667
45°	11631	9101	9764
50°	9935	7848	8774
55°	8704	6758	7623
60°	7752	5766	6414
65°	6873	4699	5115
70°	6104	3489	2903
75°	5087	1823	858
80°	4013	568	142
85°	2866	283	0



TEST NUMBER: P583743
 CATALOG NUMBER: HCC8W10D010MW-HM80520835-81WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	5.1
10°-20°	142.3	14.2
20°-30°	201.5	20.1
30°-40°	210.8	21.0
40°-50°	175.8	17.5
50°-60°	124.7	12.4
60°-70°	71.8	7.2
70°-80°	23.1	2.3
80°-90°	3.2	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°	394.6	39.3
0°-40°	605.4	60.3
0°-60°	905.9	90.2
0°-90°	1004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1004.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	539	539	539	539	539	
5°	559	552	536	520	513	54
15°	574	551	501	462	449	162
25°	531	492	422	388	380	242
35°	414	378	317	300	307	257
45°	267	245	209	211	224	207
55°	162	145	126	132	142	146
65°	94	79	64	64	70	94
75°	43	31	15	7	7	46
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: P583743

CATALOG NUMBER: HCC8W10D010MW-HM80520835-81WWBB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0
2.5°	550.3	549.4	548.7	549.4	548.7	549.4	548.7	548.7	547.9	547.0	547.0
5°	559.2	558.3	558.3	558.3	557.5	556.8	556.8	555.9	554.4	553.5	551.8
7.5°	564.8	565.5	565.5	565.5	564.0	564.0	562.4	560.7	559.2	557.5	555.1
10°	571.2	571.2	570.5	569.6	568.1	567.2	566.4	564.8	562.4	559.2	556.8
12.5°	573.6	573.6	572.9	571.2	570.5	569.6	568.8	566.4	563.1	559.2	555.9
15°	574.4	572.9	572.0	571.2	569.6	567.2	567.2	564.0	559.9	555.1	551.1
17.5°	568.1	568.8	567.2	565.5	563.1	561.6	559.2	556.8	551.8	546.3	542.2
20°	559.9	559.2	558.3	555.9	552.7	551.8	549.4	545.5	541.4	535.0	529.4
22.5°	547.0	546.3	544.6	543.1	539.8	538.3	535.7	530.9	525.3	518.9	512.4
25°	530.9	529.4	527.0	523.7	521.3	519.6	516.5	511.6	505.2	497.9	491.5
27.5°	505.2	507.6	505.9	501.1	498.7	495.5	494.7	488.3	482.6	475.4	468.1
30°	480.2	480.2	477.8	475.4	471.3	468.9	465.7	460.8	455.2	446.3	440.7
32.5°	448.7	448.0	444.7	443.9	440.7	435.8	435.1	428.6	423.0	416.5	409.3
35°	414.1	412.5	409.3	406.9	405.3	402.8	400.4	394.7	389.1	382.7	377.9
37.5°	374.7	374.7	373.8	369.9	368.2	366.6	364.2	358.6	355.3	348.8	344.0
40°	336.8	336.0	333.6	332.7	331.2	328.7	327.1	323.9	319.0	314.2	309.4
42.5°	299.7	300.5	297.3	298.1	294.9	293.3	292.4	287.6	285.2	280.4	276.3
45°	266.7	265.9	264.3	263.5	261.8	260.2	258.7	256.3	252.2	247.4	245.0
47.5°	236.1	233.7	233.7	232.8	232.0	228.9	228.0	225.6	223.2	218.3	215.2
50°	207.1	207.1	207.1	206.3	203.9	203.0	201.5	199.1	196.5	193.4	188.5
52.5°	183.7	183.7	183.7	182.9	179.7	178.9	178.0	174.9	171.6	169.2	166.0
55°	161.9	162.8	161.9	160.3	157.9	157.9	155.5	153.9	150.6	148.2	145.1
57.5°	143.4	143.4	141.8	141.0	139.4	138.6	136.9	135.3	131.4	128.9	124.9
60°	125.7	124.9	124.9	123.3	121.6	120.1	119.2	116.8	115.3	111.2	107.9
62.5°	109.6	109.6	107.9	107.9	104.7	104.7	104.0	101.6	99.0	95.1	93.5
65°	94.2	94.2	93.5	92.7	90.3	89.4	88.6	86.2	83.8	81.4	79.0
67.5°	80.5	80.5	79.0	78.1	76.6	75.7	74.2	72.5	70.1	67.7	65.3
70°	67.7	66.8	66.1	65.3	63.7	62.9	61.2	59.6	57.2	55.5	53.1
72.5°	54.8	54.8	54.0	52.4	51.6	50.7	50.0	48.3	45.9	43.5	41.9
75°	42.7	42.7	42.7	41.1	39.4	38.7	38.7	37.0	35.5	33.1	31.4
77.5°	33.1	32.2	31.4	31.4	29.8	29.0	28.2	27.4	25.0	24.2	22.6
80°	22.6	23.3	22.6	21.8	20.9	20.2	20.2	18.5	17.7	16.1	14.5
82.5°	15.3	14.5	14.5	13.7	13.7	12.9	12.9	11.3	10.5	9.6	8.9
85°	8.1	8.1	7.2	7.2	7.2	6.5	6.5	5.6	5.6	4.8	4.1
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	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: P583743

CATALOG NUMBER: HCC8W10D010MW-HM80520835-81WWBB

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0
2.5°	546.3	544.6	543.8	543.8	543.1	542.2	541.4	540.7	539.0	539.0	537.4
5°	550.3	548.7	547.9	545.5	543.8	543.8	540.7	539.8	537.4	535.7	534.2
7.5°	553.5	550.3	547.9	545.5	543.8	542.2	539.0	535.7	532.6	529.4	527.7
10°	553.5	550.3	546.3	542.2	540.7	539.0	535.0	530.1	526.1	522.9	518.9
12.5°	551.8	547.0	542.2	539.0	535.7	533.3	528.5	523.7	518.9	512.4	509.2
15°	547.0	540.7	535.7	530.1	527.7	523.7	519.6	512.4	506.8	501.1	497.1
17.5°	537.4	529.4	523.7	518.1	514.0	511.6	505.2	498.7	492.2	485.8	481.0
20°	522.9	515.7	509.2	502.0	498.7	495.5	487.4	481.0	474.5	467.3	462.4
22.5°	505.2	497.9	489.1	483.4	478.5	474.5	467.3	460.0	453.6	447.1	440.7
25°	483.4	476.1	468.1	459.3	456.0	452.0	443.9	436.7	429.5	422.1	416.5
27.5°	460.0	450.4	443.9	434.3	431.0	427.1	418.2	410.1	403.6	398.0	391.6
30°	431.9	424.5	415.8	406.9	403.6	399.7	392.3	385.1	378.6	372.3	365.8
32.5°	401.2	394.0	385.1	378.6	373.8	370.6	363.4	356.9	350.5	344.0	338.4
35°	369.0	361.0	354.5	348.1	344.0	340.0	332.7	327.1	322.3	316.6	311.0
37.5°	336.0	330.3	323.9	316.6	312.6	309.4	303.7	297.3	293.3	288.5	284.4
40°	303.7	297.3	291.6	285.2	282.0	279.6	273.9	269.1	265.0	261.1	258.7
42.5°	270.7	265.0	259.4	255.4	253.0	250.6	246.5	240.9	238.5	234.5	232.0
45°	240.0	235.2	231.3	225.6	223.9	222.4	217.6	213.5	211.1	208.7	207.1
47.5°	211.1	207.8	203.0	199.8	197.4	195.8	192.6	189.3	186.9	185.3	183.7
50°	186.1	182.1	178.9	175.6	174.0	171.6	168.4	166.7	165.2	163.6	163.6
52.5°	162.8	158.7	155.5	153.1	151.5	149.9	147.5	146.6	145.1	145.1	144.2
55°	141.0	138.6	135.3	132.1	131.4	130.5	128.9	127.3	126.5	125.7	126.5
57.5°	122.5	120.1	116.8	114.4	113.6	112.7	112.0	110.3	109.6	109.6	109.6
60°	105.5	103.1	100.7	98.3	98.3	96.6	95.9	95.1	94.2	93.5	93.5
62.5°	90.3	87.9	85.5	83.8	82.9	82.2	80.5	79.8	79.0	79.0	78.1
65°	76.6	73.3	72.5	70.1	69.2	68.5	67.7	66.1	65.3	64.4	63.7
67.5°	62.9	61.2	58.8	57.2	56.4	55.5	54.8	53.1	52.4	51.6	50.0
70°	50.7	49.2	47.5	45.9	45.1	44.4	42.7	41.1	40.3	38.7	36.3
72.5°	39.4	37.9	36.3	34.6	33.9	33.1	31.4	29.8	28.2	26.6	25.0
75°	29.8	28.2	25.7	24.2	23.3	23.3	20.9	19.4	17.7	15.3	13.7
77.5°	20.9	18.5	17.7	16.1	15.3	13.7	12.1	10.5	8.9	8.1	6.5
80°	13.7	12.1	10.5	9.6	8.9	8.1	7.2	5.6	4.1	3.2	2.4
82.5°	8.1	7.2	6.5	5.6	4.8	4.1	3.2	3.2	2.4	1.6	0.8
85°	4.1	3.2	2.4	2.4	1.6	1.6	1.6	0.8	0.8	0.8	0.8
87.5°	1.6	0.8	0.8	0.8	0.8	0.8	0.8	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: P583743

CATALOG NUMBER: HCC8W10D010MW-HM80520835-81WWBB

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0
2.5°	536.6	535.7	535.0	534.2	534.2	532.6	532.6	531.8	530.1	529.4	529.4
5°	531.8	529.4	527.7	527.0	526.1	523.7	522.9	521.3	519.6	518.1	517.2
7.5°	524.6	520.5	518.9	518.1	515.7	513.3	511.6	509.2	506.8	504.4	503.5
10°	515.7	511.6	507.6	505.9	503.5	502.0	498.7	495.5	493.1	490.7	488.3
12.5°	504.4	499.6	495.5	493.9	491.5	488.3	483.4	481.8	477.8	476.1	473.0
15°	491.5	485.8	481.8	479.4	477.0	472.1	468.9	465.7	461.7	460.0	456.9
17.5°	475.4	468.9	464.9	462.4	460.8	456.9	452.0	448.0	443.9	442.3	439.9
20°	456.0	452.0	446.3	443.9	442.3	437.5	432.6	431.0	427.8	424.5	422.1
22.5°	434.3	430.2	424.5	422.1	421.4	417.3	413.4	410.8	408.4	406.0	403.6
25°	411.7	406.9	402.1	400.4	398.8	395.6	392.3	390.8	388.4	386.7	385.1
27.5°	387.5	382.7	378.6	376.2	374.7	372.3	370.6	369.0	367.5	365.8	364.9
30°	361.8	356.9	353.7	352.1	350.5	349.7	347.3	346.4	345.7	344.0	344.9
32.5°	336.0	332.0	328.7	326.3	326.3	324.7	323.9	323.9	323.1	323.1	323.1
35°	307.7	305.3	302.9	302.2	301.3	300.5	299.7	300.5	299.7	300.5	301.3
37.5°	282.0	279.6	277.9	277.2	276.3	277.2	276.3	276.3	277.2	278.7	279.6
40°	255.4	253.7	252.2	253.0	252.2	252.2	252.2	254.6	255.4	256.3	257.0
42.5°	230.4	228.9	228.0	228.0	228.9	228.0	229.6	230.4	232.0	234.5	236.1
45°	206.3	205.4	205.4	206.3	205.4	207.1	207.1	208.7	211.1	212.8	214.3
47.5°	183.7	183.7	183.7	184.5	184.5	185.3	186.9	187.8	189.3	191.0	192.6
50°	162.8	163.6	164.3	164.3	164.3	166.0	167.6	168.4	169.2	170.0	172.4
52.5°	144.2	145.1	145.1	145.8	146.6	147.5	148.2	149.9	150.6	152.3	153.1
55°	126.5	126.5	128.1	128.9	128.9	128.9	130.5	130.5	132.1	132.9	134.5
57.5°	109.6	110.3	110.3	111.2	111.2	112.0	112.7	113.6	114.4	115.3	116.0
60°	93.5	93.5	93.5	94.2	95.1	95.9	95.1	96.6	96.6	98.3	99.0
62.5°	78.1	79.0	79.0	79.0	79.0	79.0	79.0	79.8	80.5	81.4	82.2
65°	63.7	63.7	63.7	62.9	63.7	62.9	63.7	64.4	64.4	65.3	66.1
67.5°	49.2	49.2	47.5	47.5	48.3	48.3	48.3	48.3	47.5	49.2	49.2
70°	35.5	34.6	33.9	33.1	33.1	32.2	32.2	31.4	31.4	31.4	31.4
72.5°	23.3	21.8	20.2	19.4	18.5	18.5	16.9	16.1	16.9	16.9	16.9
75°	12.1	10.5	9.6	8.9	8.1	8.1	7.2	7.2	7.2	7.2	7.2
77.5°	4.8	4.1	3.2	3.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
80°	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.0	0.0	0.8	0.0	0.8	0.8	0.8	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: P583743

CATALOG NUMBER: HCC8W10D010MW-HM80520835-81WWBB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0
2.5°	528.5	528.5	527.7	528.5	527.0	527.7	527.0	527.0
5°	516.5	514.8	514.8	514.8	514.0	514.0	513.3	513.3
7.5°	502.0	501.1	500.3	499.6	498.7	497.9	497.9	497.9
10°	487.4	485.8	485.8	485.0	483.4	482.6	482.6	482.6
12.5°	470.5	469.7	468.9	468.9	465.7	466.5	465.7	465.7
15°	454.4	453.6	453.6	451.2	449.5	449.5	449.5	448.7
17.5°	437.5	436.7	435.8	434.3	432.6	432.6	431.9	432.6
20°	419.7	418.9	417.3	417.3	416.5	415.8	414.1	414.9
22.5°	402.1	400.4	399.7	399.7	398.8	398.8	397.3	397.3
25°	383.6	382.7	381.9	382.7	381.0	381.0	379.5	379.5
27.5°	364.2	363.4	363.4	363.4	362.5	363.4	362.5	362.5
30°	344.9	344.9	344.0	344.0	344.9	344.0	344.9	345.7
32.5°	323.9	323.9	324.7	324.7	325.5	325.5	325.5	325.5
35°	302.2	303.7	303.7	304.6	305.3	306.1	306.1	307.0
37.5°	282.0	282.8	283.6	284.4	286.1	286.1	286.1	286.1
40°	260.2	261.1	262.6	261.8	265.0	265.9	265.0	265.0
42.5°	237.6	239.3	240.0	241.7	242.6	244.1	245.0	245.0
45°	216.7	217.6	219.1	220.8	221.5	223.9	223.9	223.9
47.5°	195.0	196.5	197.4	199.1	199.8	202.2	203.0	202.2
50°	174.0	175.6	177.3	177.3	179.7	180.4	182.1	182.9
52.5°	153.9	154.7	156.3	157.1	158.7	160.3	161.2	161.9
55°	134.5	135.3	136.9	136.9	139.4	140.2	141.8	141.8
57.5°	116.8	117.7	119.2	118.4	120.1	121.6	121.6	120.8
60°	99.9	99.9	99.9	101.6	102.3	103.1	104.0	104.0
62.5°	82.2	83.8	84.6	84.6	85.5	86.2	86.2	85.5
65°	66.1	67.7	68.5	68.5	69.2	69.2	69.2	70.1
67.5°	50.0	50.0	50.0	50.7	50.0	50.0	50.0	50.0
70°	31.4	31.4	31.4	31.4	30.7	31.4	31.4	32.2
72.5°	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
75°	7.2	7.2	7.2	8.1	7.2	7.2	7.2	7.2
77.5°	3.2	2.4	3.2	3.2	2.4	2.4	2.4	2.4
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.8	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)