

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: P583804

Luminaire Tested: **HCC8W10D010MB-HM80520935-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583804
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-HM80520935-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

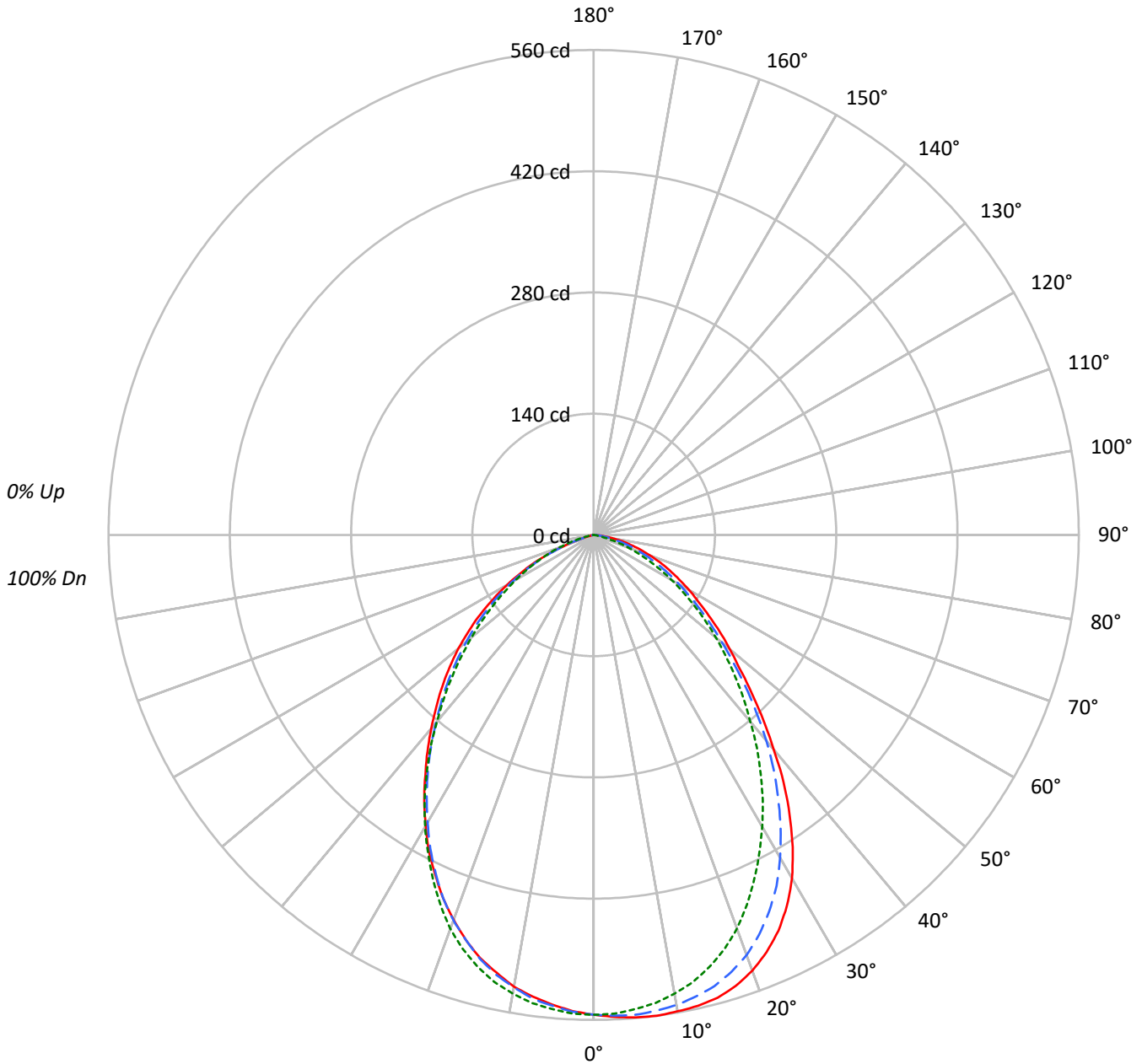
Lumens per Lamp: N/A
Luminaire Lumens: 1053.1 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P583804
CATALOG NUMBER: HCC8W10D010MB-HM80520935-81RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P583804

CATALOG NUMBER: HCC8W10D010MB-HM80520935-81RWWC

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°	17086	17086	17086
5°	17313	17015	16855
10°	17491	16840	16586
15°	17664	16486	16154
20°	17576	15876	15512
25°	17165	14926	14722
30°	16308	13855	13801
35°	14843	12641	12754
40°	13010	11315	11734
45°	11229	10065	10776
50°	9830	8832	9758
55°	8709	7591	8586
60°	7851	6389	7117
65°	7070	5129	5458
70°	6203	3742	3002
75°	5290	1930	786
80°	4084	533	124
85°	2654	0	0



TEST NUMBER: P583804
 CATALOG NUMBER: HCC8W10D010MB-HM80520935-81RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	5.0
10°-20°	147.0	14.0
20°-30°	208.6	19.8
30°-40°	219.6	20.9
40°-50°	186.8	17.7
50°-60°	135.0	12.8
60°-70°	76.8	7.3
70°-80°	24.2	2.3
80°-90°	2.9	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°	407.8	38.7
0°-40°	627.4	59.6
0°-60°	949.2	90.1
0°-90°	1053.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1053.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	554	554	554	554	554	
5°	559	556	550	546	544	53
15°	553	539	516	507	506	156
25°	504	479	439	431	433	231
35°	394	371	336	334	339	245
45°	258	248	231	237	247	200
55°	162	150	141	149	160	146
65°	97	84	70	70	75	96
75°	44	34	16	8	7	48
85°	8	4	0	0	0	10
90°	0	0	0	0	0	

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



TEST NUMBER: P583804

CATALOG NUMBER: HCC8W10D010MB-HM80520935-81RWWC

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	554.1	554.1	554.1	554.1	554.1	554.1	554.1	554.1	554.1	554.1	554.1
2.5°	557.0	557.7	556.3	556.3	557.7	556.3	557.0	557.0	556.3	556.3	555.6
5°	559.3	558.6	558.6	558.6	559.3	557.7	557.0	557.7	556.3	556.3	556.3
7.5°	560.0	560.0	559.3	558.6	558.6	558.6	557.7	557.0	556.3	554.8	554.1
10°	558.6	558.6	559.3	557.7	557.7	556.3	556.3	554.8	554.8	553.3	551.1
12.5°	557.0	556.3	556.3	554.8	554.8	553.3	553.3	551.1	550.4	548.1	545.9
15°	553.3	552.6	551.1	550.4	549.7	549.0	547.4	546.7	544.5	541.5	539.3
17.5°	545.9	545.2	544.5	542.9	541.5	540.8	540.1	537.8	534.9	532.6	528.9
20°	535.6	534.9	534.9	532.6	531.9	529.7	528.9	526.0	523.7	519.3	516.4
22.5°	521.5	522.3	520.8	519.3	517.8	515.7	514.1	511.2	507.5	503.0	499.3
25°	504.5	505.2	503.8	502.3	500.0	498.6	497.1	492.7	489.0	483.8	479.4
27.5°	483.1	483.1	483.1	481.5	477.9	477.2	475.6	471.2	466.0	461.6	457.1
30°	458.0	457.1	457.1	455.0	453.5	450.5	448.3	444.6	440.9	435.7	430.6
32.5°	427.6	428.3	426.1	424.7	422.4	422.4	419.5	416.5	412.0	406.9	401.7
35°	394.3	395.0	393.5	392.8	389.1	388.4	387.6	383.9	380.9	377.3	371.3
37.5°	360.2	359.5	358.8	358.8	356.5	355.1	353.6	351.3	346.9	344.0	341.0
40°	323.2	323.2	323.2	322.5	321.8	320.3	319.6	318.0	315.2	312.2	310.0
42.5°	290.0	290.0	289.2	288.5	287.0	287.8	286.3	284.8	281.9	279.6	278.1
45°	257.5	257.5	257.5	258.2	256.7	254.5	254.5	253.0	251.5	250.0	247.9
47.5°	228.6	230.8	229.3	228.6	229.3	226.3	226.3	224.9	223.5	221.9	219.0
50°	204.9	204.9	204.9	203.4	202.7	202.7	200.5	199.1	198.2	196.8	193.8
52.5°	183.4	182.0	182.0	181.3	180.5	179.0	179.0	177.5	174.5	173.1	170.9
55°	162.0	162.0	161.3	160.5	159.7	159.0	158.3	156.1	154.6	152.4	150.1
57.5°	142.8	144.2	143.5	142.1	140.5	140.5	139.1	137.6	135.3	133.2	130.9
60°	127.3	126.5	126.5	125.7	124.3	123.6	122.8	120.6	118.4	116.1	113.9
62.5°	110.9	110.9	110.9	109.5	108.1	107.2	106.5	105.1	102.0	99.9	98.4
65°	96.9	96.2	95.4	94.7	94.0	92.4	91.7	90.3	88.0	85.8	83.5
67.5°	82.8	82.1	82.1	81.4	79.2	78.4	78.4	76.2	73.9	71.8	69.6
70°	68.8	68.8	68.8	67.3	66.6	65.9	65.1	63.6	61.4	59.1	57.0
72.5°	57.0	56.3	56.3	55.5	53.2	52.5	51.8	50.2	48.1	46.6	45.1
75°	44.4	44.4	43.6	42.9	42.2	41.5	40.6	39.2	37.0	34.7	34.0
77.5°	34.0	33.3	33.3	32.6	31.0	30.3	30.3	28.8	26.7	25.1	23.7
80°	23.0	23.7	23.0	22.2	21.4	20.7	20.0	19.2	17.8	16.2	14.8
82.5°	14.1	14.8	14.1	14.1	13.3	12.6	12.6	11.1	10.3	9.6	8.9
85°	7.5	7.5	7.5	7.5	6.6	6.6	6.6	5.9	5.2	4.4	4.4
87.5°	2.2	3.0	2.2	2.2	2.2	2.2	2.2	2.2	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: P583804

CATALOG NUMBER: HCC8W10D010MB-HM80520935-81RWWC

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	554.1	554.1	554.1	554.1	554.1	554.1	554.1	554.1	554.1	554.1	554.1
2.5°	556.3	555.6	554.8	554.8	554.8	554.8	554.8	554.1	553.3	553.3	553.3
5°	554.8	554.8	554.8	554.1	553.3	553.3	551.8	551.1	550.4	549.7	549.0
7.5°	553.3	551.8	551.1	550.4	549.7	549.7	548.1	546.7	546.7	545.2	543.7
10°	549.0	548.1	546.7	545.2	544.5	543.7	542.2	540.1	539.3	537.8	536.3
12.5°	543.7	542.2	540.8	537.8	537.1	536.3	533.3	531.2	529.7	528.9	525.3
15°	537.1	534.0	531.9	528.2	527.4	526.0	523.7	521.5	518.5	516.4	514.8
17.5°	525.3	522.3	518.5	514.8	513.4	513.4	509.6	506.8	503.0	501.6	498.6
20°	511.2	507.5	504.5	500.0	497.9	495.6	493.4	489.0	486.0	483.8	480.1
22.5°	494.9	489.7	486.0	481.5	477.9	475.6	471.9	468.3	464.6	462.3	459.4
25°	474.2	469.7	463.9	459.4	457.1	454.2	449.8	446.1	442.3	438.7	437.2
27.5°	451.2	445.3	440.2	435.0	432.7	430.6	425.4	420.9	417.9	414.2	412.8
30°	426.1	420.2	414.2	409.9	407.6	403.9	401.0	395.8	392.1	389.1	385.4
32.5°	397.3	392.8	387.6	380.9	379.5	376.6	372.1	369.9	365.4	363.2	360.2
35°	366.1	363.2	358.1	352.9	350.6	349.2	345.5	341.0	338.1	335.8	334.4
37.5°	336.6	332.8	327.7	324.1	322.5	320.3	315.9	313.6	310.7	309.3	306.3
40°	304.8	301.1	297.4	295.2	292.9	291.5	288.5	286.3	283.3	281.1	280.3
42.5°	273.7	271.5	268.5	265.5	264.8	262.6	261.1	258.9	256.7	255.9	253.7
45°	245.6	243.4	240.4	237.5	236.7	235.2	234.5	232.2	230.8	230.8	230.8
47.5°	217.4	215.3	212.3	210.8	211.6	208.7	208.7	207.8	206.4	206.4	207.1
50°	192.3	189.4	188.6	187.2	185.7	184.1	185.0	182.7	182.7	184.1	183.4
52.5°	168.6	165.8	164.9	163.5	162.8	162.8	162.0	162.0	161.3	162.0	162.0
55°	147.2	145.0	143.5	142.1	141.2	141.2	141.2	140.5	139.8	141.2	142.1
57.5°	128.0	127.3	125.7	123.6	122.8	122.0	121.3	121.3	121.3	121.3	122.0
60°	110.9	109.5	108.1	105.8	105.8	105.1	104.3	103.6	103.6	103.6	103.6
62.5°	96.2	94.0	91.7	90.3	89.5	88.8	88.0	86.5	86.5	86.5	86.5
65°	81.4	79.2	77.6	76.2	74.8	74.8	73.2	72.5	71.0	70.3	68.8
67.5°	67.3	65.9	64.3	62.1	61.4	60.7	59.1	58.4	56.3	55.5	54.7
70°	54.7	52.5	51.1	49.5	48.8	47.4	45.9	44.4	42.9	41.5	39.9
72.5°	42.9	40.6	39.2	37.7	36.3	36.3	34.0	32.6	30.3	28.8	26.7
75°	31.9	29.6	28.1	25.8	25.1	24.4	22.2	20.7	18.5	16.2	14.8
77.5°	21.4	20.0	18.5	16.2	14.8	14.8	12.6	11.1	9.6	7.5	6.6
80°	13.3	11.8	10.3	8.9	8.9	7.5	6.6	5.2	3.7	3.0	2.2
82.5°	7.5	6.6	5.9	4.4	4.4	3.7	3.0	2.2	1.4	0.7	0.7
85°	3.7	3.0	2.2	2.2	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



TEST NUMBER: P583804

CATALOG NUMBER: HCC8W10D010MB-HM80520935-81RWWC

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	554.1	554.1	554.1	554.1	554.1	554.1	554.1	554.1	554.1	554.1	554.1
2.5°	552.6	552.6	551.8	551.8	551.8	551.1	551.8	551.1	551.1	551.1	551.8
5°	549.7	548.1	548.1	547.4	547.4	546.7	547.4	546.7	545.9	545.2	545.9
7.5°	543.7	542.2	541.5	540.8	540.8	540.8	540.1	539.3	540.1	537.8	539.3
10°	535.6	534.9	533.3	532.6	531.9	532.6	531.9	530.4	530.4	530.4	529.7
12.5°	525.3	523.7	523.0	522.3	520.8	520.8	521.5	520.1	520.1	518.5	518.5
15°	512.7	511.2	509.6	509.6	508.2	508.2	507.5	507.5	506.8	506.0	506.0
17.5°	497.1	494.9	493.4	494.1	493.4	492.7	492.7	491.1	490.4	491.1	491.1
20°	478.6	477.2	475.6	476.4	474.9	474.2	474.9	472.7	473.5	473.5	473.5
22.5°	458.0	457.1	455.0	455.0	453.5	452.7	453.5	453.5	454.2	453.5	453.5
25°	435.0	433.4	432.0	432.0	431.3	430.6	431.3	432.0	431.3	432.0	432.0
27.5°	410.6	408.3	408.3	406.9	406.9	407.6	406.9	407.6	408.3	408.3	409.9
30°	383.9	383.2	382.5	381.8	381.8	382.5	382.5	382.5	383.2	384.6	384.6
32.5°	358.8	357.4	355.8	355.8	357.4	356.5	357.4	357.4	358.8	358.8	360.2
35°	331.4	331.4	329.9	330.7	330.7	330.7	330.7	332.1	333.7	334.4	335.8
37.5°	306.3	304.0	304.8	304.8	305.5	304.8	307.0	307.0	308.4	308.4	310.0
40°	278.9	278.9	279.6	278.9	279.6	279.6	281.1	282.6	283.3	284.8	285.6
42.5°	253.0	254.5	253.0	253.7	254.5	255.2	255.9	256.7	259.6	261.1	263.4
45°	229.3	230.1	230.8	231.5	230.8	232.2	233.1	234.5	236.7	237.5	238.2
47.5°	206.4	207.1	207.8	208.7	208.7	210.1	210.8	212.3	213.8	214.6	215.3
50°	184.1	185.7	186.4	186.4	187.2	188.6	190.2	190.2	191.6	193.8	194.6
52.5°	164.2	164.2	165.8	166.5	167.2	167.2	169.4	170.2	170.9	172.4	173.8
55°	142.1	144.2	145.0	145.0	146.5	148.0	148.7	149.4	149.4	152.4	152.4
57.5°	122.8	123.6	125.0	125.0	125.0	127.3	127.3	128.7	129.5	130.2	131.6
60°	103.6	105.1	105.1	105.8	105.1	106.5	107.2	108.8	109.5	110.2	110.9
62.5°	85.8	85.8	86.5	86.5	86.5	86.5	88.0	88.0	89.5	90.3	91.0
65°	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	69.6	69.6	71.0
67.5°	53.2	52.5	51.1	51.8	51.1	51.1	50.2	50.2	51.1	51.1	52.5
70°	38.5	37.7	36.3	36.3	35.5	34.7	34.0	33.3	32.6	32.6	32.6
72.5°	25.1	23.7	21.4	20.7	20.7	19.2	17.8	17.1	17.1	17.1	17.1
75°	12.6	11.1	9.6	8.9	8.9	7.5	8.2	7.5	7.5	7.5	7.5
77.5°	5.2	3.7	3.0	3.0	3.0	2.2	2.2	2.2	2.2	2.2	2.2
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: P583804

CATALOG NUMBER: HCC8W10D010MB-HM80520935-81RWWC

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	554.1	554.1	554.1	554.1	554.1	554.1	554.1	554.1
2.5°	551.1	551.1	549.7	550.4	550.4	550.4	550.4	550.4
5°	544.5	545.2	544.5	545.2	545.2	544.5	544.5	544.5
7.5°	537.8	538.5	537.8	538.5	538.5	538.5	537.8	537.8
10°	529.7	529.7	529.7	529.7	529.7	528.9	529.7	529.7
12.5°	518.5	518.5	518.5	519.3	519.3	518.5	518.5	517.8
15°	506.8	505.2	506.0	506.8	506.0	506.0	506.0	506.0
17.5°	490.4	491.1	490.4	490.4	490.4	490.4	491.1	490.4
20°	473.5	473.5	474.2	473.5	473.5	473.5	473.5	472.7
22.5°	454.2	453.5	453.5	454.2	454.2	453.5	454.2	454.2
25°	432.7	433.4	432.7	432.7	433.4	433.4	433.4	432.7
27.5°	409.9	410.6	411.3	410.6	410.6	410.6	411.3	412.0
30°	386.2	387.6	386.2	386.2	387.6	386.9	387.6	387.6
32.5°	361.0	363.2	361.7	363.2	363.2	364.0	363.2	364.0
35°	335.8	338.1	338.1	338.1	338.8	339.6	339.6	338.8
37.5°	312.2	312.9	312.9	314.4	315.2	315.9	315.9	315.2
40°	287.8	289.2	290.0	290.0	290.0	291.5	292.9	291.5
42.5°	264.1	264.8	265.5	265.5	267.1	267.8	268.5	268.5
45°	241.1	242.7	243.4	244.1	244.8	246.3	245.6	247.1
47.5°	217.4	219.7	220.4	221.2	222.6	223.5	224.2	224.9
50°	196.0	197.5	197.5	199.1	201.2	201.2	202.7	203.4
52.5°	174.5	175.4	176.1	176.8	178.3	179.8	179.8	181.3
55°	153.9	154.6	154.6	155.3	156.1	159.0	159.7	159.7
57.5°	132.5	132.5	133.9	134.6	135.3	136.9	136.9	136.9
60°	111.7	112.4	112.4	113.2	113.9	115.4	116.1	115.4
62.5°	91.0	91.7	91.7	92.4	94.0	94.7	94.0	94.0
65°	71.8	72.5	72.5	73.2	74.8	74.8	73.9	74.8
67.5°	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
70°	33.3	32.6	31.9	32.6	32.6	32.6	31.9	33.3
72.5°	16.2	17.1	17.1	17.1	17.1	17.1	17.1	16.2
75°	7.5	7.5	6.6	6.6	6.6	7.5	7.5	6.6
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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)