

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: P583745

Luminaire Tested: **HCC8W10D010BZ-HM80520835-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583745
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: HCC8W10D010BZ-HM80520835-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

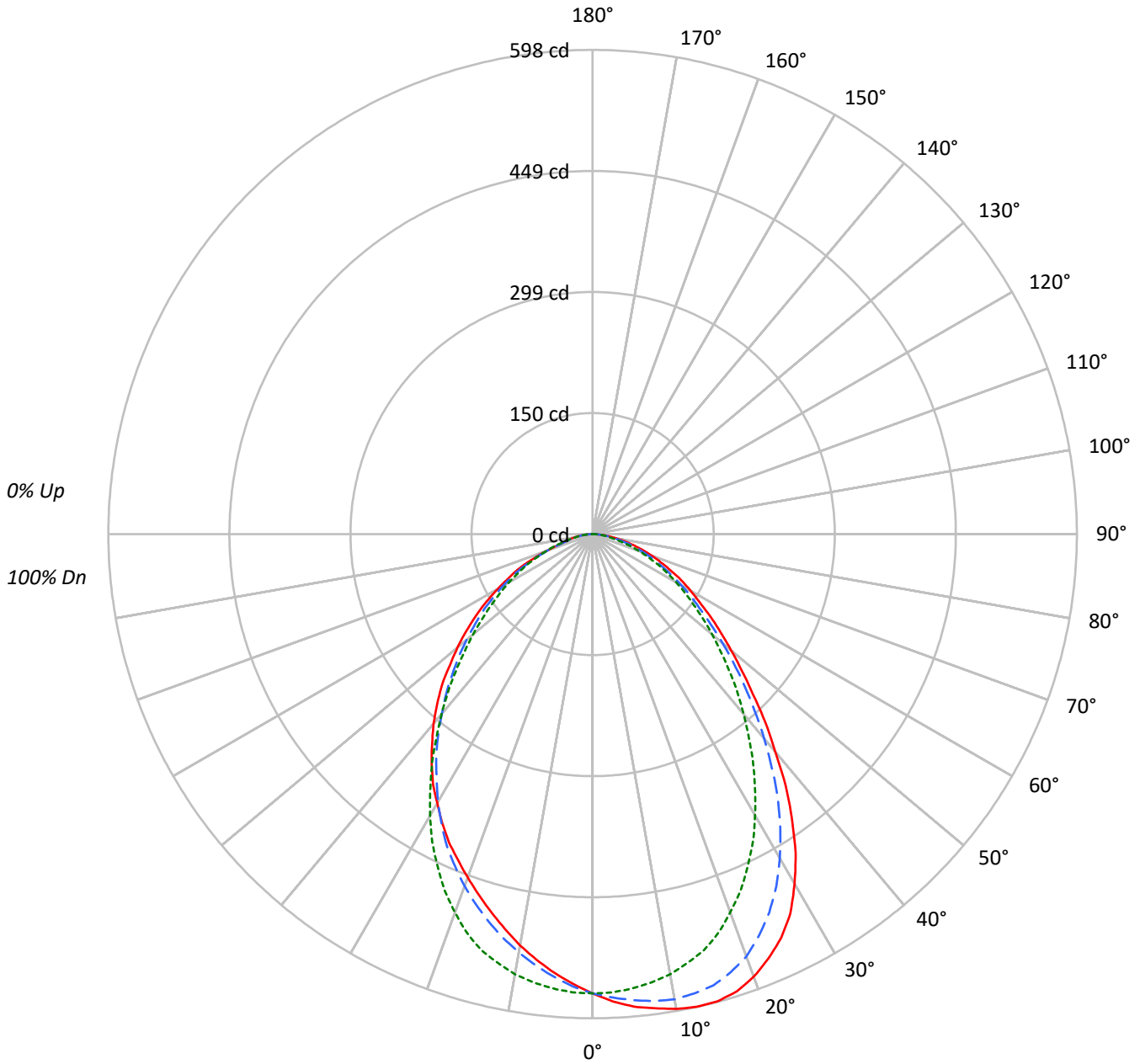
Lumens per Lamp: N/A
Luminaire Lumens: 1141.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): 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: P583745
CATALOG NUMBER: HCC8W10D010BZ-HM80520835-81WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P583745

CATALOG NUMBER: HCC8W10D010BZ-HM80520835-81WWWB

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°	17493	17493	17493
5°	18136	17436	16836
10°	18646	17284	16151
15°	19065	16980	15432
20°	19092	16312	14806
25°	18727	15410	14287
30°	17761	14289	13659
35°	16142	13014	13044
40°	14109	11674	12294
45°	12228	10401	11460
50°	10708	9240	10439
55°	9532	8188	9441
60°	8597	7351	8301
65°	7763	6465	7238
70°	6978	5455	5373
75°	6148	4325	4039
80°	5150	3587	3871
85°	3998	3149	3397



TEST NUMBER: P583745
 CATALOG NUMBER: HCC8W10D010BZ-HM80520835-81WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	4.7
10°-20°	150.7	13.2
20°-30°	215.4	18.9
30°-40°	228.9	20.1
40°-50°	197.1	17.3
50°-60°	147.3	12.9
60°-70°	94.0	8.2
70°-80°	42.8	3.7
80°-90°	11.2	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°	419.7	36.8
0°-40°	648.6	56.8
0°-60°	993.0	87.0
0°-90°	1141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1141.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	567	567	567	567	567	
5°	586	578	563	549	544	56
15°	597	577	532	496	483	168
25°	550	516	453	426	420	252
35°	429	399	346	337	346	267
45°	280	265	238	245	263	218
55°	177	163	152	165	176	159
65°	106	94	89	93	99	106
75°	52	44	36	33	34	55
85°	11	10	9	10	10	14
90°	0	0	0	0	0	

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



TEST NUMBER: P583745

CATALOG NUMBER: HCC8W10D010BZ-HM80520835-81WWWB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3
2.5°	577.8	576.1	577.0	576.1	577.0	577.0	575.4	575.4	575.4	575.4	573.0
5°	585.9	585.0	585.0	584.2	583.5	584.2	583.5	582.6	581.0	580.2	577.8
7.5°	590.7	590.7	590.7	590.7	589.8	589.1	588.3	586.7	585.0	583.5	581.8
10°	595.5	596.3	595.5	594.7	593.9	592.2	591.5	589.8	587.4	585.0	583.5
12.5°	597.9	597.9	597.2	597.2	595.5	594.7	592.2	589.8	587.4	585.0	581.0
15°	597.2	597.2	596.3	595.5	593.1	592.2	590.7	588.3	584.2	581.0	577.0
17.5°	592.2	591.5	589.8	589.8	586.7	585.9	584.2	581.0	577.0	572.2	567.3
20°	581.8	581.8	581.0	580.2	577.0	574.6	573.0	568.9	565.7	560.0	555.2
22.5°	567.3	568.9	567.3	565.7	561.7	560.9	558.4	553.6	548.7	542.3	536.7
25°	550.4	549.6	548.7	547.2	543.9	542.3	539.1	534.3	529.5	522.1	515.8
27.5°	528.6	525.4	525.4	522.1	519.7	517.3	515.8	510.8	504.5	498.8	490.8
30°	498.8	499.6	495.6	494.7	490.8	489.1	486.0	481.0	475.4	469.0	462.5
32.5°	466.6	464.2	464.2	461.0	457.7	455.3	454.5	448.8	444.0	437.5	431.2
35°	428.8	428.8	426.2	425.5	422.3	420.6	418.2	415.1	409.4	403.8	398.8
37.5°	391.6	390.0	389.2	387.6	385.2	382.7	382.7	377.1	376.3	369.9	363.5
40°	350.5	352.2	350.5	348.1	347.3	345.7	344.9	341.6	339.2	333.6	329.6
42.5°	315.9	314.3	314.3	313.5	310.2	310.2	308.7	307.0	303.0	301.3	296.5
45°	280.4	282.0	279.6	280.4	277.2	277.2	277.2	273.9	270.8	268.3	265.2
47.5°	249.8	250.6	250.6	248.2	247.4	247.4	245.8	244.1	241.7	238.5	236.1
50°	223.2	224.1	222.4	221.6	220.0	219.1	219.1	216.0	214.3	211.1	209.5
52.5°	199.1	199.1	198.2	198.2	195.8	195.8	194.2	191.8	190.2	188.6	184.5
55°	177.3	177.3	176.5	175.6	175.6	173.2	172.5	170.1	168.4	165.2	162.8
57.5°	156.4	157.1	156.4	155.5	154.7	153.9	152.3	149.9	148.3	145.8	144.2
60°	139.4	139.4	138.6	137.7	136.2	135.3	134.6	132.9	130.5	129.0	126.6
62.5°	123.3	122.5	121.6	120.9	119.2	119.2	117.7	116.0	113.6	112.0	110.3
65°	106.4	106.4	105.5	105.5	104.8	103.1	102.3	101.6	98.3	97.5	94.2
67.5°	91.1	91.8	90.3	90.3	88.6	88.6	87.9	85.5	84.6	83.1	81.4
70°	77.4	77.4	77.4	76.6	74.9	74.2	73.3	71.8	70.9	69.4	67.7
72.5°	63.7	63.7	62.9	62.9	62.0	61.3	60.5	58.8	58.8	57.2	55.7
75°	51.6	51.6	50.7	50.0	49.2	49.2	48.3	47.6	45.9	45.1	44.4
77.5°	39.4	39.4	39.4	38.7	37.9	37.9	37.9	36.3	34.6	34.6	33.9
80°	29.0	29.0	28.2	28.2	27.4	27.4	27.4	26.6	25.8	25.0	24.2
82.5°	19.4	19.4	19.4	19.4	18.5	18.5	18.5	17.7	16.9	16.9	16.9
85°	11.3	11.3	11.3	11.3	10.5	10.5	10.5	10.5	10.5	9.6	9.6
87.5°	4.8	4.1	4.8	4.1	4.8	4.1	4.8	4.1	4.1	4.1	4.1
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: P583745

CATALOG NUMBER: HCC8W10D010BZ-HM80520835-81WWWB

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3
2.5°	573.7	573.0	572.2	571.3	571.3	570.5	568.9	568.1	567.3	566.5	566.5
5°	577.0	576.1	574.6	573.0	572.2	570.5	568.9	567.3	565.7	563.3	562.4
7.5°	579.4	577.0	575.4	572.2	571.3	569.7	567.3	564.9	561.7	558.4	556.0
10°	579.4	576.1	573.7	569.7	568.1	566.5	563.3	559.3	555.2	552.0	548.0
12.5°	577.8	573.7	569.7	565.7	563.3	560.9	556.0	552.0	547.2	542.3	539.1
15°	572.2	567.3	562.4	557.6	555.2	552.0	547.2	541.5	536.7	531.9	526.2
17.5°	561.7	556.8	551.2	545.6	542.3	539.9	532.6	528.6	521.3	516.5	511.7
20°	548.0	542.3	535.0	529.5	525.4	523.0	517.3	510.1	504.5	497.1	492.3
22.5°	530.2	523.0	515.8	510.1	506.0	502.8	495.6	488.4	483.4	477.1	471.4
25°	509.3	502.1	494.7	486.7	482.7	479.5	473.0	466.6	460.1	452.9	448.0
27.5°	484.3	476.2	469.7	462.5	458.6	453.6	446.4	439.9	433.6	428.8	422.3
30°	456.9	448.0	441.6	434.3	430.3	426.2	419.0	412.5	407.0	401.3	398.1
32.5°	423.8	417.5	411.0	403.8	400.5	398.1	390.8	384.4	377.9	373.1	370.7
35°	392.5	385.2	379.6	373.1	369.0	366.6	360.2	354.6	351.3	345.7	342.4
37.5°	359.4	353.7	347.3	340.9	338.5	336.1	331.2	325.5	320.7	316.7	315.0
40°	324.8	319.9	314.3	310.2	307.8	305.4	301.3	297.4	294.1	290.0	288.5
42.5°	291.7	288.5	283.7	278.9	276.3	275.6	270.8	267.6	265.9	264.3	262.8
45°	261.9	257.1	253.9	250.6	248.2	246.5	244.1	241.7	240.2	238.5	236.9
47.5°	232.8	228.9	225.6	223.2	220.8	220.0	218.4	216.0	214.3	214.3	214.3
50°	206.3	203.0	199.9	198.2	197.4	195.8	194.2	193.4	192.6	192.6	192.6
52.5°	182.9	179.7	177.3	175.6	175.6	174.0	172.5	171.6	171.6	171.6	171.6
55°	161.2	158.8	157.1	155.5	153.9	153.1	153.1	153.1	152.3	152.3	153.1
57.5°	141.8	140.2	137.7	136.2	135.3	135.3	134.6	133.8	134.6	135.3	136.2
60°	124.0	122.5	121.6	119.2	119.2	119.2	118.4	118.4	118.4	119.2	120.1
62.5°	107.9	107.2	105.5	104.8	104.0	104.0	103.1	103.1	103.1	103.1	104.0
65°	93.5	91.8	90.3	90.3	90.3	89.4	89.4	87.9	88.6	88.6	87.9
67.5°	79.8	78.1	77.4	76.6	75.7	75.7	74.9	74.2	73.3	73.3	73.3
70°	66.8	65.3	65.3	63.7	63.7	62.9	62.0	62.0	61.3	60.5	59.6
72.5°	54.0	53.1	52.4	51.6	51.6	51.6	50.7	50.0	49.2	48.3	46.8
75°	42.7	42.7	41.1	40.3	40.3	39.4	38.7	37.9	37.0	36.3	35.5
77.5°	33.1	32.2	30.7	29.8	29.8	29.8	29.0	28.2	27.4	26.6	25.8
80°	24.2	23.3	22.6	21.8	21.8	21.8	20.9	20.9	20.2	20.2	20.2
82.5°	16.1	16.1	15.3	15.3	15.3	15.3	14.5	14.5	14.5	14.5	14.5
85°	9.6	9.6	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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: P583745

CATALOG NUMBER: HCC8W10D010BZ-HM80520835-81WWWB

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3
2.5°	564.9	564.9	563.3	562.4	561.7	562.4	560.9	560.0	559.3	559.3	558.4
5°	560.0	559.3	556.0	555.2	554.4	553.6	552.0	550.4	548.7	548.0	547.2
7.5°	553.6	551.2	548.0	547.2	546.3	543.9	541.5	539.9	537.5	536.7	535.0
10°	544.7	541.5	539.1	536.7	535.0	532.6	530.2	527.8	524.6	523.8	521.3
12.5°	534.3	530.2	525.4	524.6	522.1	518.9	515.8	513.3	510.8	509.3	506.9
15°	521.3	517.3	512.5	510.1	507.7	505.2	501.2	498.0	495.6	493.2	490.8
17.5°	506.0	501.2	497.1	494.7	493.2	489.1	486.0	481.9	479.5	477.1	474.7
20°	487.5	483.4	477.8	475.4	474.7	471.4	467.3	465.8	462.5	460.1	458.6
22.5°	466.6	462.5	457.7	456.0	452.9	451.2	447.3	445.6	444.0	441.6	440.8
25°	443.2	439.2	435.1	434.3	431.9	430.3	427.9	425.5	425.5	423.1	423.1
27.5°	419.0	415.1	411.8	410.1	409.4	407.7	405.3	404.5	403.8	402.9	402.9
30°	393.3	388.4	386.8	386.0	385.2	383.6	382.7	381.2	382.0	382.7	382.0
32.5°	365.9	364.2	361.0	359.4	360.2	359.4	357.8	359.4	358.6	360.2	361.0
35°	339.2	337.6	336.1	336.1	334.4	334.4	334.4	335.2	336.8	337.6	339.2
37.5°	313.5	311.1	310.2	309.4	310.2	310.2	310.2	311.8	313.5	315.0	317.4
40°	286.1	284.5	284.5	284.5	284.5	286.9	286.1	287.6	289.3	291.7	294.1
42.5°	260.2	260.2	261.1	261.1	261.1	261.1	262.8	265.2	267.6	270.0	272.4
45°	236.1	236.1	236.1	237.8	237.8	238.5	241.7	243.4	245.0	247.4	249.8
47.5°	213.6	213.6	214.3	215.2	216.0	217.6	219.1	221.6	224.1	225.6	228.0
50°	192.6	193.4	195.0	196.6	196.6	197.4	199.9	201.5	203.0	205.5	206.3
52.5°	172.5	174.0	175.6	176.5	177.3	178.9	179.7	182.1	182.9	185.3	186.2
55°	153.9	154.7	157.1	157.9	157.9	159.5	161.2	162.8	165.2	165.2	166.8
57.5°	137.0	137.7	139.4	140.2	139.4	141.8	142.7	144.2	145.1	146.6	147.5
60°	120.1	121.6	122.5	122.5	123.3	124.0	125.7	125.7	127.3	129.0	129.0
62.5°	104.0	104.8	105.5	106.4	107.2	106.4	108.8	108.8	110.3	111.2	112.9
65°	88.6	89.4	89.4	90.3	90.3	91.1	91.1	91.8	92.7	94.2	95.1
67.5°	73.3	73.3	73.3	74.2	73.3	74.2	74.2	74.9	74.9	76.6	77.4
70°	59.6	58.8	58.1	58.1	58.1	58.1	57.2	58.1	58.1	58.8	58.8
72.5°	45.9	45.1	44.4	43.5	43.5	42.7	41.9	42.7	42.7	43.5	43.5
75°	34.6	33.1	33.1	33.1	32.2	32.2	32.2	33.1	33.1	33.1	33.9
77.5°	25.8	25.8	25.0	25.0	25.0	25.8	25.8	26.6	26.6	26.6	26.6
80°	19.4	20.2	20.2	20.2	20.2	20.9	20.9	20.9	20.9	21.8	21.8
82.5°	14.5	14.5	14.5	14.5	15.3	15.3	15.3	15.3	15.3	15.3	15.3
85°	8.9	9.6	9.6	8.9	9.6	9.6	9.6	9.6	9.6	9.6	9.6
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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: P583745

CATALOG NUMBER: HCC8W10D010BZ-HM80520835-81WWWB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3
2.5°	557.6	557.6	557.6	557.6	556.8	556.8	556.8	556.0
5°	545.6	545.6	545.6	543.9	544.7	544.7	543.1	543.9
7.5°	533.4	532.6	531.9	531.9	531.0	530.2	529.5	530.2
10°	519.7	517.3	517.3	516.5	516.5	514.9	514.9	515.8
12.5°	504.5	502.8	502.8	502.1	501.2	500.4	499.6	499.6
15°	489.1	487.5	486.7	486.0	485.1	483.4	484.3	483.4
17.5°	473.8	471.4	471.4	470.6	469.7	468.2	468.2	467.3
20°	456.0	455.3	453.6	454.5	453.6	452.1	451.2	451.2
22.5°	438.4	438.4	437.5	437.5	436.8	436.0	435.1	435.1
25°	421.4	420.6	421.4	421.4	419.0	419.0	419.0	419.9
27.5°	402.1	402.9	402.1	402.1	402.1	402.1	402.9	402.1
30°	382.7	382.7	382.7	383.6	385.2	384.4	384.4	383.6
32.5°	361.8	362.6	362.6	363.5	364.2	365.9	365.9	366.6
35°	340.9	342.4	343.3	342.4	344.9	344.9	346.5	346.5
37.5°	319.1	319.9	321.5	322.4	323.9	324.8	325.5	325.5
40°	295.7	298.9	299.8	300.6	303.0	303.0	303.7	305.4
42.5°	273.9	277.2	278.0	278.9	280.4	282.8	282.0	283.7
45°	253.0	255.4	256.3	257.1	259.5	260.2	260.2	262.8
47.5°	230.4	232.1	232.8	234.5	236.1	237.8	239.3	238.5
50°	207.9	210.4	211.9	212.8	215.2	216.0	216.7	217.6
52.5°	187.8	189.3	190.2	191.0	193.4	194.2	195.0	196.6
55°	168.4	169.2	170.8	170.1	172.5	173.2	174.0	175.6
57.5°	149.0	149.9	150.7	150.7	152.3	153.9	154.7	155.5
60°	130.5	132.1	132.9	132.9	132.9	134.6	134.6	134.6
62.5°	113.6	113.6	114.4	114.4	116.0	116.0	116.0	116.0
65°	95.9	96.6	97.5	97.5	99.2	98.3	99.9	99.2
67.5°	77.4	77.4	79.0	79.0	78.1	79.0	79.0	79.0
70°	58.8	58.8	59.6	59.6	59.6	59.6	59.6	59.6
72.5°	43.5	43.5	43.5	44.4	43.5	43.5	44.4	43.5
75°	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
77.5°	26.6	26.6	27.4	27.4	27.4	27.4	27.4	27.4
80°	21.8	21.8	21.8	21.8	22.6	21.8	21.8	21.8
82.5°	16.1	15.3	16.1	15.3	16.1	16.1	16.1	16.1
85°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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)