

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: P583710

Luminaire Tested: **HCC8S10D010SL-HM80520827-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S10D010SL-HM80520827-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

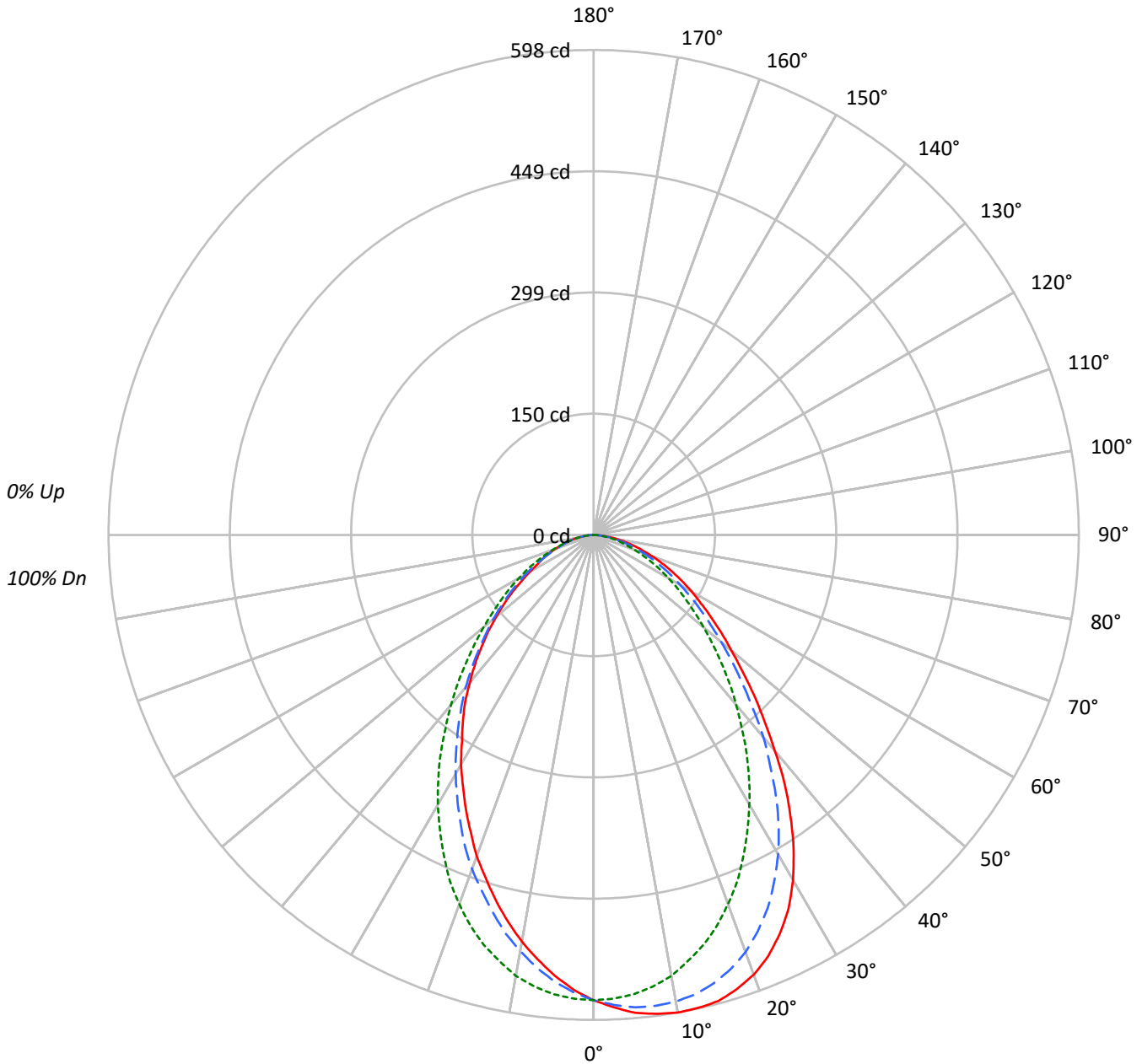
Lumens per Lamp: N/A
Luminaire Lumens: 1059.1 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P583710
CATALOG NUMBER: HCC8S10D010SL-HM80520827-81WWW

Luminous Intensity Polar Plot





TEST NUMBER: P583710

CATALOG NUMBER: HCC8S10D010SL-HM80520827-81WWW

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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76					76			
3	94	85	78	72	92	83	77	71	81	75	70	78	73	69	75	71	68	66					66			
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	68	64	60	58					58			
5	81	69	61	55	79	68	61	55	66	60	54	64	59	54	63	57	53	51					51			
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46					46			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	41					41			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38					38			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34					34			
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32					32			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	17694	17694	17694
5°	18316	17594	16895
10°	18725	17287	15947
15°	18992	16703	14889
20°	18934	15892	13825
25°	18465	14862	12691
30°	17497	13669	11647
35°	15920	12370	10582
40°	13980	11001	9560
45°	12193	9677	8521
50°	10612	8482	7508
55°	9462	7451	6532
60°	8597	6531	5569
65°	7727	5684	5064
70°	6879	4842	4562
75°	6029	4087	3896
80°	5114	3303	3463
85°	3856	2477	2760



TEST NUMBER: P583710
 CATALOG NUMBER: HCC8S10D010SL-HM80520827-81WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.8	5.1
10°-20°	148.1	14.0
20°-30°	205.6	19.4
30°-40°	212.6	20.1
40°-50°	178.0	16.8
50°-60°	129.2	12.2
60°-70°	81.5	7.7
70°-80°	40.4	3.8
80°-90°	10.0	0.9
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°	407.4	38.5
0°-40°	620.0	58.5
0°-60°	927.2	87.5
0°-90°	1059.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1059.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	574	574	574	574	574	
5°	592	585	568	553	546	57
15°	595	572	523	481	466	167
25°	543	508	437	389	373	249
35°	423	392	329	291	281	263
45°	280	259	222	200	195	216
55°	176	160	139	127	122	159
65°	106	93	78	68	69	106
75°	51	42	34	33	33	54
85°	11	8	7	8	8	13
90°	0	0	0	0	0	

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



TEST NUMBER: P583710

CATALOG NUMBER: HCC8S10D010SL-HM80520827-81WWW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	573.8	573.8	573.8	573.8	573.8	573.8	573.8	573.8	573.8	573.8	573.8
2.5°	583.2	583.2	584.1	583.2	583.2	583.2	582.5	582.5	581.6	581.6	580.1
5°	591.7	590.2	591.7	590.2	590.2	590.2	589.5	587.9	587.1	585.6	584.8
7.5°	595.7	594.9	594.9	594.1	594.1	593.3	592.6	591.7	588.6	587.9	585.6
10°	598.0	597.3	597.3	596.4	594.9	594.9	593.3	592.6	588.6	587.1	584.1
12.5°	597.3	597.3	597.3	596.4	594.1	593.3	591.7	589.5	586.3	583.2	580.1
15°	594.9	594.9	593.3	592.6	590.2	588.6	587.9	584.1	580.9	577.0	572.3
17.5°	587.1	587.1	586.3	584.8	582.5	580.9	579.4	575.4	572.3	566.1	561.5
20°	577.0	576.2	575.4	573.1	570.7	570.0	567.7	562.2	558.3	553.6	547.4
22.5°	562.2	561.5	560.6	559.1	555.2	553.6	552.1	548.2	541.1	536.5	528.8
25°	542.7	542.7	541.1	538.9	534.9	533.3	531.0	527.2	520.9	514.0	507.7
27.5°	520.1	519.4	517.0	515.4	512.4	510.0	506.2	501.5	495.2	489.8	482.0
30°	491.4	491.4	489.8	487.4	483.6	482.0	478.9	473.5	467.2	460.2	454.7
32.5°	458.7	458.7	456.3	454.7	452.4	448.5	447.7	441.5	436.1	430.6	424.4
35°	422.9	423.6	422.0	418.9	415.1	415.1	413.5	408.1	401.8	396.3	391.6
37.5°	387.0	384.6	383.9	382.4	380.0	376.8	375.3	373.0	367.6	363.6	356.6
40°	347.3	348.1	346.5	345.0	344.1	341.8	341.0	337.2	333.3	328.6	325.5
42.5°	311.4	311.4	311.4	309.9	308.3	306.0	305.2	302.9	298.2	295.1	290.4
45°	279.6	277.2	277.2	276.5	275.6	274.1	271.8	270.2	267.1	264.8	259.3
47.5°	248.5	249.2	248.5	247.6	245.3	244.5	243.8	240.6	237.5	235.1	231.3
50°	221.2	222.7	221.2	221.2	219.6	218.8	217.2	214.9	212.6	208.7	204.8
52.5°	198.6	198.6	197.7	197.0	194.7	193.2	192.3	191.6	187.6	184.5	181.4
55°	176.0	176.8	176.8	174.4	173.7	172.1	171.3	169.0	167.4	162.8	160.3
57.5°	156.5	155.8	156.5	154.9	153.4	151.8	151.1	149.5	147.1	144.0	141.0
60°	139.4	137.9	137.9	137.0	135.5	134.7	133.2	130.8	128.5	125.4	123.1
62.5°	122.2	121.5	120.7	120.0	118.4	117.6	116.8	114.4	112.1	109.7	107.5
65°	105.9	105.9	105.2	103.6	102.8	102.0	101.2	99.6	96.5	95.0	92.7
67.5°	91.1	90.3	90.3	88.8	87.3	86.4	86.4	84.9	82.6	80.2	78.6
70°	76.3	77.0	76.3	75.5	73.9	73.9	72.4	71.6	68.5	67.8	65.4
72.5°	63.1	63.1	62.3	62.3	60.7	60.0	60.0	58.4	56.9	55.3	53.7
75°	50.6	50.6	50.6	49.9	49.0	47.5	47.5	46.8	45.2	43.6	42.1
77.5°	39.7	38.9	38.9	38.1	37.4	36.5	36.5	35.8	34.3	33.5	32.0
80°	28.8	28.0	28.0	28.0	26.4	27.3	26.4	25.7	24.9	24.2	23.3
82.5°	18.6	19.5	19.5	18.6	17.9	17.9	17.9	17.2	17.2	16.3	15.6
85°	10.9	10.9	10.9	10.9	10.1	10.1	10.1	9.4	9.4	9.4	8.5
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	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: P583710

CATALOG NUMBER: HCC8S10D010SL-HM80520827-81WWW

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	573.8	573.8	573.8	573.8	573.8	573.8	573.8	573.8	573.8	573.8	573.8
2.5°	580.1	578.5	577.8	577.0	577.0	576.2	575.4	573.8	573.8	572.3	571.6
5°	583.2	580.9	579.4	577.8	577.0	575.4	573.8	571.6	570.7	568.4	566.1
7.5°	584.1	580.1	578.5	575.4	573.8	572.3	569.1	566.9	563.7	561.5	558.3
10°	580.9	577.8	573.8	570.0	569.1	566.9	562.2	559.1	555.2	552.1	547.4
12.5°	576.2	571.6	567.7	563.0	560.6	558.3	553.6	549.0	543.5	538.0	533.3
15°	568.4	563.0	557.5	552.1	549.0	546.7	541.1	535.7	530.3	523.2	518.5
17.5°	556.8	550.5	545.1	538.0	534.9	532.6	525.6	519.4	512.4	505.3	500.6
20°	542.0	534.2	527.9	520.1	517.8	514.0	506.9	499.9	492.1	484.3	478.9
22.5°	522.5	514.7	507.7	499.9	496.1	492.1	485.1	476.6	468.8	462.5	457.1
25°	499.9	492.9	484.3	477.3	472.6	467.9	460.2	453.2	446.2	436.8	431.4
27.5°	475.0	466.4	460.2	450.9	446.2	443.1	434.5	425.1	418.9	410.4	404.1
30°	446.9	439.2	432.1	422.9	418.2	415.1	407.2	398.7	392.5	383.9	377.7
32.5°	417.3	408.8	400.3	394.0	388.6	385.5	376.8	371.4	363.6	356.6	349.7
35°	385.5	376.8	370.7	362.0	358.9	355.8	348.8	341.8	334.9	328.6	323.1
37.5°	351.2	345.0	337.9	331.8	329.3	326.2	317.7	311.4	306.0	299.8	295.1
40°	317.7	312.3	307.6	301.3	297.5	295.1	288.8	283.4	277.2	273.3	268.6
42.5°	287.3	281.1	276.5	271.8	267.8	265.5	260.1	256.1	251.5	247.6	242.2
45°	255.4	252.3	246.9	242.9	240.6	237.5	233.5	229.0	225.0	221.9	218.0
47.5°	227.4	224.3	220.3	215.6	214.1	211.8	207.9	204.8	201.7	198.6	194.7
50°	201.7	197.7	194.7	191.6	190.0	187.6	183.8	182.2	179.8	176.8	174.4
52.5°	178.3	175.3	172.1	168.2	167.4	165.9	163.5	160.3	158.1	156.5	154.9
55°	157.3	154.2	151.8	148.7	148.0	146.4	143.3	141.7	140.2	138.6	137.0
57.5°	138.6	135.5	132.3	130.8	129.2	127.7	126.9	124.5	123.1	122.2	120.7
60°	121.5	118.4	116.0	113.7	112.9	112.1	110.6	109.0	107.5	105.9	105.2
62.5°	105.2	102.0	100.5	98.9	97.4	97.4	95.8	94.2	92.7	91.8	90.3
65°	90.3	88.8	86.4	84.1	83.3	83.3	81.0	80.2	79.5	77.9	76.3
67.5°	76.3	74.8	72.4	71.6	70.9	70.1	69.4	67.8	66.2	65.4	63.8
70°	63.8	62.3	60.7	60.0	59.1	58.4	56.9	56.0	54.5	53.7	53.0
72.5°	51.4	50.6	49.0	48.3	47.5	46.8	45.9	45.2	43.6	42.8	42.1
75°	41.2	40.5	38.9	38.1	37.4	37.4	36.5	35.1	34.3	34.3	33.5
77.5°	31.1	30.4	29.6	28.8	28.0	28.0	27.3	26.4	25.7	25.7	24.9
80°	22.6	21.8	21.0	21.0	21.0	20.2	19.5	19.5	18.6	18.6	17.9
82.5°	14.8	14.8	14.1	14.1	14.1	13.2	13.2	12.5	12.5	12.5	12.5
85°	8.5	8.5	8.5	7.8	7.8	7.8	7.8	7.8	7.8	7.0	7.8
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.1	3.1	3.1
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: P583710

CATALOG NUMBER: HCC8S10D010SL-HM80520827-81WWW

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	573.8	573.8	573.8	573.8	573.8	573.8	573.8	573.8	573.8	573.8	573.8
2.5°	570.7	570.0	568.4	568.4	566.9	566.9	566.1	565.3	564.6	563.7	563.0
5°	565.3	562.2	560.6	559.9	558.3	557.5	555.2	553.6	552.8	551.2	549.8
7.5°	555.2	552.1	549.0	548.2	547.4	544.3	542.0	539.6	538.0	536.5	534.9
10°	543.5	540.4	536.5	534.9	533.3	529.5	526.4	524.1	520.9	517.8	517.0
12.5°	529.5	524.8	520.1	518.5	516.3	512.4	509.3	505.3	503.0	499.1	498.3
15°	513.1	507.7	503.8	499.9	498.3	494.5	489.0	485.8	481.2	479.7	475.8
17.5°	493.7	488.3	482.7	481.2	478.9	473.5	467.9	464.1	459.4	457.1	454.7
20°	473.5	466.4	461.0	459.4	456.3	451.6	446.2	442.3	438.4	433.7	431.4
22.5°	450.0	442.3	437.6	433.7	433.0	427.4	421.3	418.2	415.1	411.1	408.1
25°	424.4	417.3	411.9	408.8	407.2	402.5	397.9	394.0	389.3	387.0	383.1
27.5°	397.9	393.2	386.2	383.1	380.8	376.8	371.4	369.1	364.4	361.3	358.9
30°	372.3	365.2	361.3	357.4	355.1	351.2	346.5	344.1	340.3	337.2	334.9
32.5°	344.1	339.4	334.0	332.5	329.3	325.5	322.4	318.5	315.4	312.3	311.4
35°	318.5	312.3	306.8	305.2	302.9	299.1	297.5	295.1	291.2	290.4	287.3
37.5°	290.4	287.3	281.1	278.7	278.0	274.9	271.8	270.2	267.8	265.5	264.8
40°	264.0	260.1	257.0	254.6	253.0	250.7	247.6	246.9	245.3	242.2	241.4
42.5°	239.1	235.1	232.0	231.3	229.0	226.6	225.0	222.7	221.9	221.2	219.6
45°	214.9	212.6	209.5	208.7	207.9	204.8	203.3	201.7	200.1	199.3	197.7
47.5°	193.2	190.8	188.5	187.6	186.1	185.3	182.9	182.2	179.8	179.1	178.3
50°	172.1	170.6	169.0	168.2	166.6	165.9	164.3	162.8	161.2	160.3	159.6
52.5°	153.4	151.8	150.2	149.5	148.7	147.1	145.6	144.0	143.3	142.4	141.7
55°	135.5	133.9	133.2	132.3	131.6	130.8	128.5	127.7	126.9	126.1	124.5
57.5°	119.1	117.6	116.0	116.0	115.3	114.4	112.9	111.3	111.3	109.7	108.2
60°	104.3	102.8	101.2	100.5	99.6	98.1	97.4	96.5	95.8	95.0	93.4
62.5°	88.8	88.0	86.4	86.4	84.9	84.1	83.3	82.6	81.7	80.2	79.5
65°	75.5	74.8	73.2	72.4	72.4	71.6	70.1	69.4	68.5	68.5	67.8
67.5°	63.1	62.3	60.7	60.0	60.0	59.1	58.4	58.4	57.6	56.9	57.6
70°	52.2	50.6	50.6	49.9	49.9	49.0	48.3	48.3	48.3	49.0	49.0
72.5°	41.2	40.5	39.7	39.7	39.7	39.7	38.9	38.9	39.7	40.5	40.5
75°	32.7	32.0	32.0	32.0	31.1	31.1	32.0	32.0	32.7	32.7	32.7
77.5°	24.2	24.2	24.2	24.2	24.2	24.2	24.9	24.9	25.7	25.7	25.7
80°	17.9	17.9	17.9	17.9	17.9	18.6	18.6	18.6	18.6	18.6	19.5
82.5°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	13.2	13.2	13.2	13.2
85°	7.0	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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: P583710

CATALOG NUMBER: HCC8S10D010SL-HM80520827-81WWW

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	573.8	573.8	573.8	573.8	573.8	573.8	573.8	573.8
2.5°	562.2	562.2	562.2	563.0	561.5	561.5	561.5	561.5
5°	549.0	548.2	547.4	548.2	546.7	546.7	545.8	545.8
7.5°	532.6	531.9	531.0	531.0	529.5	529.5	528.8	527.9
10°	514.7	513.1	514.0	512.4	511.6	510.8	510.0	509.3
12.5°	495.2	493.7	492.9	491.4	489.8	489.0	489.8	488.3
15°	474.2	471.9	471.1	469.5	467.9	467.2	467.2	466.4
17.5°	450.9	449.3	448.5	446.9	446.2	444.6	443.9	443.1
20°	429.0	425.1	426.0	424.4	423.6	420.5	420.5	421.3
22.5°	405.0	402.5	401.0	399.4	398.7	397.1	397.1	396.3
25°	380.8	378.4	377.7	376.1	375.3	373.7	373.0	373.0
27.5°	357.4	354.3	354.3	352.8	351.2	350.4	349.7	348.8
30°	332.5	330.2	329.3	329.3	328.6	328.6	326.2	327.1
32.5°	309.2	307.6	306.8	305.2	305.2	304.5	304.5	302.1
35°	285.7	283.4	284.3	282.7	281.9	281.1	281.9	281.1
37.5°	263.2	261.7	261.7	260.1	260.1	259.3	258.6	260.1
40°	240.6	239.8	239.1	238.2	239.1	238.2	236.7	237.5
42.5°	218.0	218.0	217.2	217.2	216.5	216.5	216.5	216.5
45°	197.7	197.0	197.0	196.2	196.2	196.2	196.2	195.4
47.5°	177.5	176.8	176.8	176.8	176.0	176.0	175.3	176.0
50°	158.1	158.1	157.3	157.3	158.1	157.3	156.5	156.5
52.5°	140.2	140.2	139.4	139.4	138.6	137.9	138.6	138.6
55°	123.8	123.1	122.2	122.2	121.5	120.7	120.7	121.5
57.5°	108.2	107.5	106.6	106.6	105.2	104.3	104.3	104.3
60°	93.4	91.8	91.8	91.1	91.1	90.3	90.3	90.3
62.5°	79.5	78.6	78.6	78.6	78.6	77.9	77.9	77.9
65°	67.8	67.8	67.8	68.5	68.5	69.4	69.4	69.4
67.5°	58.4	59.1	59.1	59.1	60.0	60.0	60.0	59.1
70°	49.9	49.9	49.9	50.6	50.6	50.6	50.6	50.6
72.5°	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
75°	32.7	33.5	33.5	33.5	32.7	33.5	33.5	32.7
77.5°	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
80°	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
82.5°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
85°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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)