

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: P593549

Luminaire Tested: **HCC8S10D010MW-HM80520950-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593549
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: HCC8S10D010MW-HM80520950-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

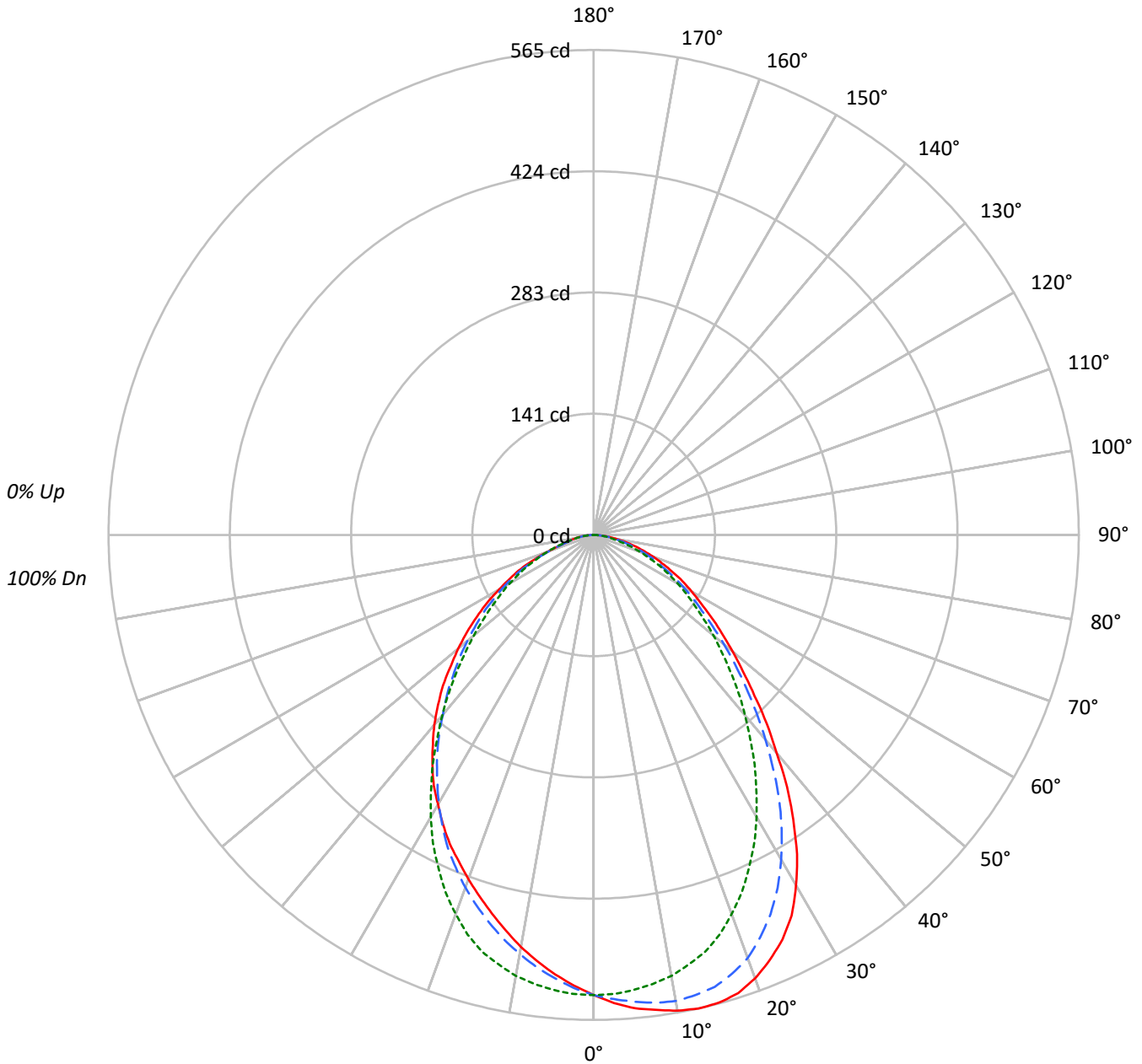
Lumens per Lamp: N/A
Luminaire Lumens: 1078.2 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P593549
CATALOG NUMBER: HCC8S10D010MW-HM80520950-81WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P593549

CATALOG NUMBER: HCC8S10D010MW-HM80520950-81WWWB

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°	16531	16531	16531
5°	17136	16474	15910
10°	17622	16335	15261
15°	18012	16045	14586
20°	18042	15420	13996
25°	17696	14559	13501
30°	16785	13502	12907
35°	15250	12298	12325
40°	13336	11038	11617
45°	11556	9829	10824
50°	10122	8731	9868
55°	9010	7736	8924
60°	8122	6951	7845
65°	7333	6114	6830
70°	6591	5148	5085
75°	5802	4087	3813
80°	4866	3374	3658
85°	3786	2972	3220



TEST NUMBER: P593549
 CATALOG NUMBER: HCC8S10D010MW-HM80520950-81WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.6	4.7
10°-20°	142.4	13.2
20°-30°	203.6	18.9
30°-40°	216.3	20.1
40°-50°	186.2	17.3
50°-60°	139.2	12.9
60°-70°	88.8	8.2
70°-80°	40.4	3.7
80°-90°	10.6	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°	396.6	36.8
0°-40°	612.9	56.8
0°-60°	938.4	87.0
0°-90°	1078.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1078.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	536	536	536	536	536	
5°	554	546	532	518	514	53
15°	564	545	503	468	457	159
25°	520	487	428	402	397	238
35°	405	377	327	318	327	252
45°	265	250	225	232	248	206
55°	168	154	144	156	166	151
65°	100	89	84	88	94	100
75°	49	42	34	31	32	52
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: P593549

CATALOG NUMBER: HCC8S10D010MW-HM80520950-81WWWB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1
2.5°	545.9	544.5	545.2	544.5	545.2	545.2	543.7	543.7	543.7	543.7	541.4
5°	553.6	552.8	552.8	552.1	551.4	552.1	551.4	550.5	549.1	548.2	545.9
7.5°	558.2	558.2	558.2	558.2	557.4	556.6	555.9	554.4	552.8	551.4	549.8
10°	562.8	563.5	562.8	561.9	561.2	559.7	558.9	557.4	555.1	552.8	551.4
12.5°	565.1	565.1	564.2	564.2	562.8	561.9	559.7	557.4	555.1	552.8	549.1
15°	564.2	564.2	563.5	562.8	560.5	559.7	558.2	555.9	552.1	549.1	545.2
17.5°	559.7	558.9	557.4	557.4	554.4	553.6	552.1	549.1	545.2	540.7	536.1
20°	549.8	549.8	549.1	548.2	545.2	542.9	541.4	537.7	534.5	529.2	524.7
22.5°	536.1	537.7	536.1	534.5	530.8	530.0	527.7	523.1	518.5	512.5	507.1
25°	520.1	519.4	518.5	517.1	514.0	512.5	509.4	504.8	500.3	493.4	487.4
27.5°	499.6	496.5	496.5	493.4	491.1	488.9	487.4	482.8	476.7	471.4	463.7
30°	471.4	472.1	468.3	467.6	463.7	462.3	459.2	454.6	449.3	443.2	437.0
32.5°	440.9	438.6	438.6	435.6	432.5	430.2	429.5	424.2	419.6	413.5	407.4
35°	405.1	405.1	402.8	402.1	399.1	397.5	395.2	392.2	386.8	381.5	376.9
37.5°	370.1	368.5	367.8	366.2	364.0	361.7	361.7	356.4	355.7	349.5	343.4
40°	331.3	332.8	331.3	329.0	328.1	326.7	325.9	322.9	320.6	315.3	311.4
42.5°	298.5	297.0	297.0	296.2	293.2	293.2	291.6	290.2	286.3	284.8	280.2
45°	265.0	266.5	264.2	265.0	261.9	261.9	261.9	258.9	255.9	253.6	250.5
47.5°	236.1	236.8	236.8	234.5	233.8	233.8	232.2	230.8	228.5	225.4	223.1
50°	211.0	211.7	210.2	209.4	207.9	207.1	207.1	204.1	202.5	199.5	198.0
52.5°	188.1	188.1	187.3	187.3	185.0	185.0	183.5	181.3	179.7	178.1	174.4
55°	167.6	167.6	166.7	166.0	166.0	163.7	163.0	160.7	159.1	156.1	153.9
57.5°	147.7	148.4	147.7	147.0	146.2	145.4	143.9	141.6	140.2	137.9	136.3
60°	131.7	131.7	131.0	130.2	128.7	127.9	127.2	125.6	123.3	121.9	119.6
62.5°	116.5	115.8	115.0	114.2	112.7	112.7	111.2	109.6	107.3	105.9	104.3
65°	100.5	100.5	99.8	99.8	99.0	97.5	96.8	95.9	92.9	92.2	89.1
67.5°	86.1	86.8	85.3	85.3	83.8	83.8	83.1	80.8	79.9	78.5	76.9
70°	73.1	73.1	73.1	72.4	70.8	70.1	69.4	67.8	67.1	65.5	63.9
72.5°	60.1	60.1	59.4	59.4	58.7	57.8	57.1	55.5	55.5	54.1	52.5
75°	48.7	48.7	48.0	47.2	46.4	46.4	45.7	45.0	43.4	42.7	41.8
77.5°	37.3	37.3	37.3	36.5	35.8	35.8	35.8	34.3	32.7	32.7	32.0
80°	27.4	27.4	26.7	26.7	25.8	25.8	25.8	25.1	24.4	23.6	22.8
82.5°	18.3	18.3	18.3	18.3	17.5	17.5	17.5	16.7	16.0	16.0	16.0
85°	10.7	10.7	10.7	10.7	9.9	9.9	9.9	9.9	9.9	9.1	9.1
87.5°	4.6	3.8	4.6	3.8	4.6	3.8	4.6	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: P593549

CATALOG NUMBER: HCC8S10D010MW-HM80520950-81WWWB

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1
2.5°	542.2	541.4	540.7	539.9	539.9	539.1	537.7	536.8	536.1	535.4	535.4
5°	545.2	544.5	542.9	541.4	540.7	539.1	537.7	536.1	534.5	532.2	531.5
7.5°	547.5	545.2	543.7	540.7	539.9	538.4	536.1	533.8	530.8	527.7	525.4
10°	547.5	544.5	542.2	538.4	536.8	535.4	532.2	528.5	524.7	521.7	517.8
12.5°	545.9	542.2	538.4	534.5	532.2	530.0	525.4	521.7	517.1	512.5	509.4
15°	540.7	536.1	531.5	527.0	524.7	521.7	517.1	511.7	507.1	502.6	497.3
17.5°	530.8	526.2	520.8	515.5	512.5	510.2	503.4	499.6	492.7	488.1	483.6
20°	517.8	512.5	505.7	500.3	496.5	494.3	488.9	482.0	476.7	469.9	465.3
22.5°	501.1	494.3	487.4	482.0	478.3	475.2	468.3	461.4	456.9	450.8	445.5
25°	481.3	474.4	467.6	459.9	456.2	453.0	447.0	440.9	434.8	427.9	423.3
27.5°	457.6	450.0	443.9	437.0	433.3	428.8	421.9	415.8	409.6	405.1	399.1
30°	431.8	423.3	417.3	410.5	406.6	402.8	395.9	389.9	384.5	379.2	376.2
32.5°	400.5	394.5	388.4	381.5	378.5	376.2	369.4	363.2	357.1	352.5	350.3
35°	370.8	364.0	358.7	352.5	348.8	346.5	340.4	335.1	332.0	326.7	323.6
37.5°	339.7	334.3	328.1	322.1	319.9	317.6	313.0	307.6	303.0	299.3	297.7
40°	306.9	302.3	297.0	293.2	290.9	288.6	284.8	281.0	277.9	274.2	272.6
42.5°	275.6	272.6	268.0	263.5	261.2	260.5	255.9	252.8	251.3	249.8	248.2
45°	247.5	242.9	239.9	236.8	234.5	233.1	230.8	228.5	226.9	225.4	223.9
47.5°	220.1	216.2	213.2	211.0	208.7	207.9	206.4	204.1	202.5	202.5	202.5
50°	195.0	191.8	188.8	187.3	186.6	185.0	183.5	182.7	182.0	182.0	182.0
52.5°	172.8	169.8	167.6	166.0	166.0	164.4	163.0	162.1	162.1	162.1	162.1
55°	152.3	150.0	148.4	147.0	145.4	144.7	144.7	144.7	143.9	143.9	144.7
57.5°	134.0	132.5	130.2	128.7	127.9	127.9	127.2	126.5	127.2	127.9	128.7
60°	117.3	115.8	115.0	112.7	112.7	112.7	111.9	111.9	111.9	112.7	113.5
62.5°	102.0	101.3	99.8	99.0	98.2	98.2	97.5	97.5	97.5	97.5	98.2
65°	88.3	86.8	85.3	85.3	85.3	84.5	84.5	83.1	83.8	83.8	83.1
67.5°	75.4	73.9	73.1	72.4	71.6	71.6	70.8	70.1	69.4	69.4	69.4
70°	63.2	61.7	61.7	60.1	60.1	59.4	58.7	58.7	57.8	57.1	56.4
72.5°	51.0	50.2	49.5	48.7	48.7	48.7	48.0	47.2	46.4	45.7	44.1
75°	40.4	40.4	38.8	38.1	38.1	37.3	36.5	35.8	35.0	34.3	33.5
77.5°	31.3	30.4	29.0	28.1	28.1	28.1	27.4	26.7	25.8	25.1	24.4
80°	22.8	22.1	21.3	20.6	20.6	20.6	19.8	19.8	19.0	19.0	19.0
82.5°	15.3	15.3	14.4	14.4	14.4	14.4	13.7	13.7	13.7	13.7	13.7
85°	9.1	9.1	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
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: P593549

CATALOG NUMBER: HCC8S10D010MW-HM80520950-81WWWB

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1
2.5°	533.8	533.8	532.2	531.5	530.8	531.5	530.0	529.2	528.5	528.5	527.7
5°	529.2	528.5	525.4	524.7	524.0	523.1	521.7	520.1	518.5	517.8	517.1
7.5°	523.1	520.8	517.8	517.1	516.3	514.0	511.7	510.2	508.0	507.1	505.7
10°	514.8	511.7	509.4	507.1	505.7	503.4	501.1	498.8	495.7	495.0	492.7
12.5°	504.8	501.1	496.5	495.7	493.4	490.4	487.4	485.1	482.8	481.3	479.0
15°	492.7	488.9	484.3	482.0	479.7	477.4	473.7	470.6	468.3	466.0	463.7
17.5°	478.3	473.7	469.9	467.6	466.0	462.3	459.2	455.3	453.0	450.8	448.5
20°	460.7	456.9	451.6	449.3	448.5	445.5	441.6	440.2	437.0	434.8	433.3
22.5°	440.9	437.0	432.5	431.0	427.9	426.5	422.6	421.1	419.6	417.3	416.5
25°	418.8	415.1	411.2	410.5	408.2	406.6	404.4	402.1	402.1	399.8	399.8
27.5°	395.9	392.2	389.1	387.6	386.8	385.4	383.1	382.2	381.5	380.8	380.8
30°	371.7	367.1	365.5	364.8	364.0	362.5	361.7	360.2	361.0	361.7	361.0
32.5°	345.7	344.3	341.1	339.7	340.4	339.7	338.1	339.7	338.8	340.4	341.1
35°	320.6	319.0	317.6	317.6	316.0	316.0	316.0	316.7	318.3	319.0	320.6
37.5°	296.2	293.9	293.2	292.4	293.2	293.2	293.2	294.7	296.2	297.7	300.0
40°	270.3	268.8	268.8	268.8	268.8	271.1	270.3	271.9	273.3	275.6	277.9
42.5°	245.9	245.9	246.8	246.8	246.8	246.8	248.2	250.5	252.8	255.1	257.3
45°	223.1	223.1	223.1	224.7	224.7	225.4	228.5	229.9	231.5	233.8	236.1
47.5°	201.8	201.8	202.5	203.4	204.1	205.7	207.1	209.4	211.7	213.2	215.5
50°	182.0	182.7	184.3	185.8	185.8	186.6	188.8	190.4	191.8	194.1	195.0
52.5°	163.0	164.4	166.0	166.7	167.6	169.0	169.8	172.1	172.8	175.1	175.9
55°	145.4	146.2	148.4	149.3	149.3	150.7	152.3	153.9	156.1	156.1	157.6
57.5°	129.5	130.2	131.7	132.5	131.7	134.0	134.7	136.3	137.0	138.6	139.3
60°	113.5	115.0	115.8	115.8	116.5	117.3	118.8	118.8	120.3	121.9	121.9
62.5°	98.2	99.0	99.8	100.5	101.3	100.5	102.8	102.8	104.3	105.1	106.6
65°	83.8	84.5	84.5	85.3	85.3	86.1	86.1	86.8	87.6	89.1	89.9
67.5°	69.4	69.4	69.4	70.1	69.4	70.1	70.1	70.8	70.8	72.4	73.1
70°	56.4	55.5	54.8	54.8	54.8	54.8	54.1	54.8	54.8	55.5	55.5
72.5°	43.4	42.7	41.8	41.1	41.1	40.4	39.5	40.4	40.4	41.1	41.1
75°	32.7	31.3	31.3	31.3	30.4	30.4	30.4	31.3	31.3	31.3	32.0
77.5°	24.4	24.4	23.6	23.6	23.6	24.4	24.4	25.1	25.1	25.1	25.1
80°	18.3	19.0	19.0	19.0	19.0	19.8	19.8	19.8	19.8	20.6	20.6
82.5°	13.7	13.7	13.7	13.7	14.4	14.4	14.4	14.4	14.4	14.4	14.4
85°	8.4	9.1	9.1	8.4	9.1	9.1	9.1	9.1	9.1	9.1	9.1
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: P593549

CATALOG NUMBER: HCC8S10D010MW-HM80520950-81WWWB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1
2.5°	527.0	527.0	527.0	527.0	526.2	526.2	526.2	525.4
5°	515.5	515.5	515.5	514.0	514.8	514.8	513.3	514.0
7.5°	504.1	503.4	502.6	502.6	501.8	501.1	500.3	501.1
10°	491.1	488.9	488.9	488.1	488.1	486.6	486.6	487.4
12.5°	476.7	475.2	475.2	474.4	473.7	472.9	472.1	472.1
15°	462.3	460.7	459.9	459.2	458.4	456.9	457.6	456.9
17.5°	447.7	445.5	445.5	444.7	443.9	442.5	442.5	441.6
20°	431.0	430.2	428.8	429.5	428.8	427.2	426.5	426.5
22.5°	414.2	414.2	413.5	413.5	412.8	411.9	411.2	411.2
25°	398.2	397.5	398.2	398.2	395.9	395.9	395.9	396.8
27.5°	380.0	380.8	380.0	380.0	380.0	380.0	380.8	380.0
30°	361.7	361.7	361.7	362.5	364.0	363.2	363.2	362.5
32.5°	342.0	342.7	342.7	343.4	344.3	345.7	345.7	346.5
35°	322.1	323.6	324.4	323.6	325.9	325.9	327.4	327.4
37.5°	301.6	302.3	303.9	304.6	306.1	306.9	307.6	307.6
40°	279.5	282.5	283.3	284.0	286.3	286.3	287.0	288.6
42.5°	258.9	261.9	262.8	263.5	265.0	267.3	266.5	268.0
45°	239.1	241.4	242.2	242.9	245.2	245.9	245.9	248.2
47.5°	217.8	219.4	220.1	221.6	223.1	224.7	226.2	225.4
50°	196.4	198.8	200.3	201.1	203.4	204.1	204.8	205.7
52.5°	177.4	179.0	179.7	180.4	182.7	183.5	184.3	185.8
55°	159.1	159.9	161.4	160.7	163.0	163.7	164.4	166.0
57.5°	140.9	141.6	142.4	142.4	143.9	145.4	146.2	147.0
60°	123.3	124.9	125.6	125.6	125.6	127.2	127.2	127.2
62.5°	107.3	107.3	108.2	108.2	109.6	109.6	109.6	109.6
65°	90.6	91.4	92.2	92.2	93.6	92.9	94.5	93.6
67.5°	73.1	73.1	74.6	74.6	73.9	74.6	74.6	74.6
70°	55.5	55.5	56.4	56.4	56.4	56.4	56.4	56.4
72.5°	41.1	41.1	41.1	41.8	41.1	41.1	41.8	41.1
75°	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
77.5°	25.1	25.1	25.8	25.8	25.8	25.8	25.8	25.8
80°	20.6	20.6	20.6	20.6	21.3	20.6	20.6	20.6
82.5°	15.3	14.4	15.3	14.4	15.3	15.3	15.3	15.3
85°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
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)