

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: P593545

Luminaire Tested: **HCC8S10D010BZ-HM80520950-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593545
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: HCC8S10D010BZ-HM80520950-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

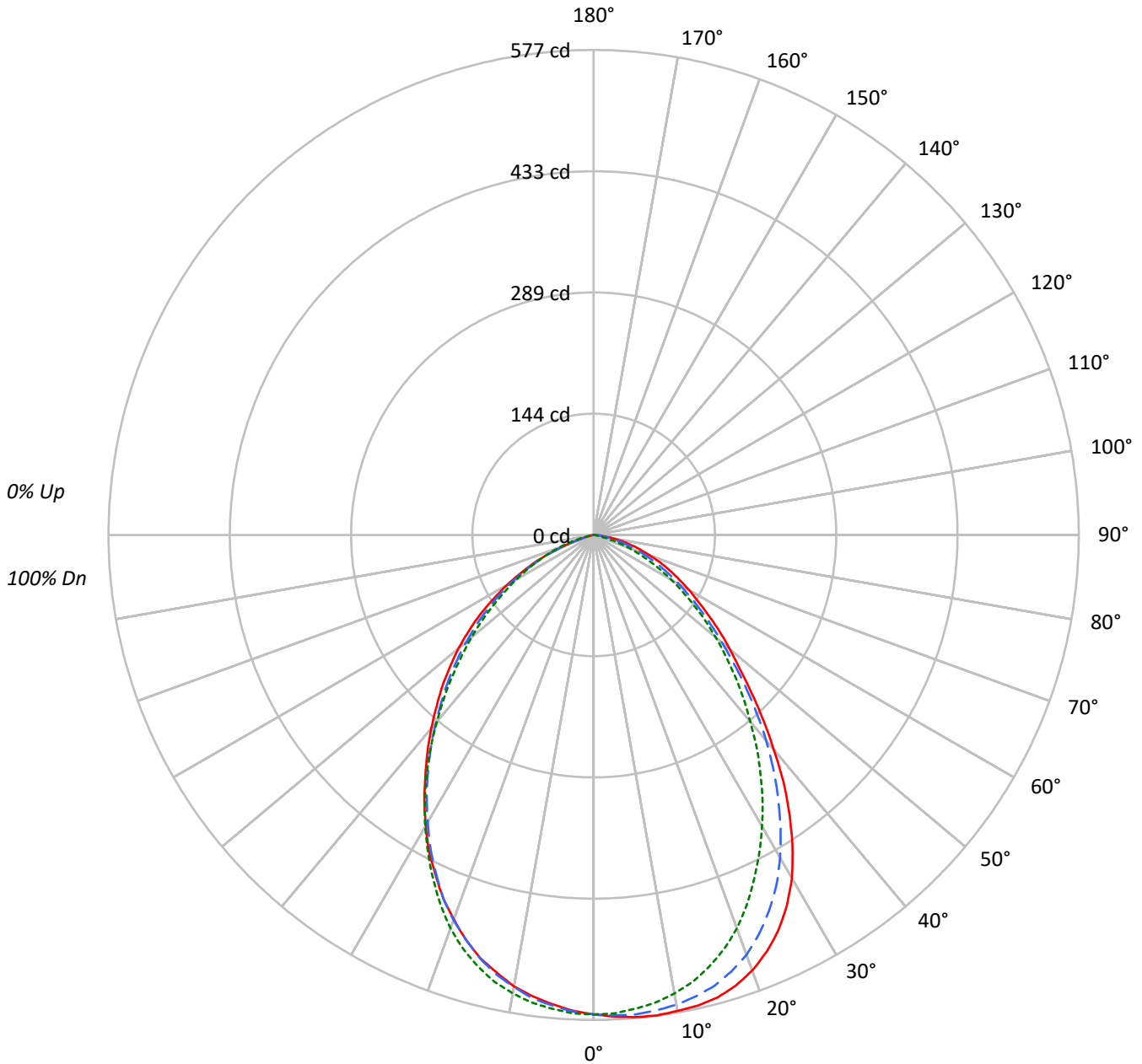
Lumens per Lamp: N/A
Luminaire Lumens: 1084.3 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P593545
CATALOG NUMBER: HCC8S10D010BZ-HM80520950-81RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P593545

CATALOG NUMBER: HCC8S10D010BZ-HM80520950-81RWWC

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°	17592	17592	17592
5°	17826	17517	17353
10°	18004	17341	17074
15°	18187	16971	16636
20°	18098	16345	15971
25°	17676	15369	15161
30°	16789	14264	14214
35°	15284	13017	13130
40°	13397	11649	12080
45°	11556	10362	11099
50°	10122	9100	10050
55°	8967	7817	8849
60°	8079	6574	7333
65°	7282	5283	5611
70°	6383	3850	3092
75°	5445	1990	822
80°	4191	533	124
85°	2689	0	0



TEST NUMBER: P593545
 CATALOG NUMBER: HCC8S10D010BZ-HM80520950-81RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.8	5.0
10°-20°	151.3	14.0
20°-30°	214.8	19.8
30°-40°	226.1	20.9
40°-50°	192.3	17.7
50°-60°	139.0	12.8
60°-70°	79.0	7.3
70°-80°	24.9	2.3
80°-90°	3.0	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°	419.9	38.7
0°-40°	646.0	59.6
0°-60°	977.3	90.1
0°-90°	1084.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1084.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	570	570	570	570	570	
5°	576	573	566	562	561	55
15°	570	555	532	522	521	160
25°	520	494	452	444	446	238
35°	406	382	346	344	349	253
45°	265	255	238	244	254	206
55°	167	155	145	154	165	150
65°	100	86	72	72	77	99
75°	46	35	17	8	7	49
85°	8	5	0	0	0	10
90°	0	0	0	0	0	



TEST NUMBER: P593545

CATALOG NUMBER: HCC8S10D010BZ-HM80520950-81RWWC

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5
2.5°	573.6	574.3	572.8	572.8	574.3	572.8	573.6	573.6	572.8	572.8	572.0
5°	575.9	575.0	575.0	575.0	575.9	574.3	573.6	574.3	572.8	572.8	572.8
7.5°	576.6	576.6	575.9	575.0	575.0	575.0	574.3	573.6	572.8	571.3	570.5
10°	575.0	575.0	575.9	574.3	574.3	572.8	572.8	571.3	571.3	569.7	567.5
12.5°	573.6	572.8	572.8	571.3	571.3	569.7	569.7	567.5	566.7	564.5	562.2
15°	569.7	569.0	567.5	566.7	565.9	565.2	563.6	562.9	560.6	557.6	555.3
17.5°	562.2	561.3	560.6	559.1	557.6	556.8	556.0	553.8	550.8	548.5	544.6
20°	551.5	550.8	550.8	548.5	547.6	545.3	544.6	541.6	539.3	534.8	531.6
22.5°	537.1	537.8	536.2	534.8	533.2	530.9	529.4	526.4	522.5	517.9	514.1
25°	519.5	520.2	518.8	517.2	514.9	513.4	511.8	507.2	503.5	498.1	493.5
27.5°	497.4	497.4	497.4	495.8	492.1	491.3	489.8	485.2	479.8	475.3	470.7
30°	471.5	470.7	470.7	468.4	467.0	463.9	461.6	457.8	454.0	448.7	443.3
32.5°	440.3	441.0	438.7	437.2	434.9	434.9	431.9	428.9	424.3	418.9	413.6
35°	406.0	406.8	405.2	404.5	400.6	399.9	399.2	395.3	392.3	388.5	382.4
37.5°	370.9	370.2	369.4	369.4	367.1	365.6	364.1	361.8	357.2	354.2	351.1
40°	332.8	332.8	332.8	332.1	331.4	329.8	329.1	327.5	324.5	321.4	319.1
42.5°	298.6	298.6	297.9	297.0	295.6	296.3	294.7	293.3	290.2	287.9	286.4
45°	265.0	265.0	265.0	265.9	264.3	262.0	262.0	260.5	259.0	257.5	255.2
47.5°	235.4	237.6	236.1	235.4	236.1	233.1	233.1	231.5	230.1	228.5	225.5
50°	211.0	211.0	211.0	209.5	208.7	208.7	206.4	204.9	204.1	202.7	199.5
52.5°	189.0	187.4	187.4	186.7	185.8	184.4	184.4	182.8	179.8	178.3	176.0
55°	166.8	166.8	166.0	165.3	164.6	163.7	163.0	160.7	159.1	156.9	154.6
57.5°	147.0	148.6	147.7	146.3	144.7	144.7	143.2	141.7	139.4	137.1	134.9
60°	131.0	130.3	130.3	129.5	128.0	127.2	126.5	124.2	121.9	119.6	117.3
62.5°	114.3	114.3	114.3	112.7	111.2	110.5	109.7	108.2	105.2	102.8	101.3
65°	99.8	99.0	98.2	97.5	96.8	95.2	94.5	92.9	90.6	88.3	86.1
67.5°	85.3	84.5	84.5	83.8	81.5	80.8	80.8	78.5	76.2	73.9	71.6
70°	70.8	70.8	70.8	69.4	68.5	67.8	67.1	65.5	63.2	60.9	58.7
72.5°	58.7	57.9	57.9	57.1	54.8	54.1	53.4	51.8	49.5	48.0	46.5
75°	45.7	45.7	45.0	44.2	43.4	42.7	41.9	40.4	38.1	35.8	35.1
77.5°	35.1	34.3	34.3	33.5	32.0	31.3	31.3	29.7	27.4	25.8	24.4
80°	23.6	24.4	23.6	22.8	22.1	21.3	20.6	19.8	18.3	16.7	15.3
82.5°	14.4	15.3	14.4	14.4	13.7	13.0	13.0	11.4	10.7	9.9	9.1
85°	7.6	7.6	7.6	7.6	6.9	6.9	6.9	6.1	5.3	4.6	4.6
87.5°	2.3	3.0	2.3	2.3	2.3	2.3	2.3	2.3	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: P593545

CATALOG NUMBER: HCC8S10D010BZ-HM80520950-81RWWC

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5
2.5°	572.8	572.0	571.3	571.3	571.3	571.3	571.3	570.5	569.7	569.7	569.7
5°	571.3	571.3	571.3	570.5	569.7	569.7	568.2	567.5	566.7	565.9	565.2
7.5°	569.7	568.2	567.5	566.7	565.9	565.9	564.5	562.9	562.9	561.3	559.9
10°	565.2	564.5	562.9	561.3	560.6	559.9	558.3	556.0	555.3	553.8	552.2
12.5°	559.9	558.3	556.8	553.8	553.0	552.2	549.2	546.9	545.3	544.6	540.8
15°	553.0	549.9	547.6	543.9	543.1	541.6	539.3	537.1	533.9	531.6	530.2
17.5°	540.8	537.8	533.9	530.2	528.6	528.6	524.8	521.8	517.9	516.4	513.4
20°	526.4	522.5	519.5	514.9	512.7	510.4	508.1	503.5	500.4	498.1	494.4
22.5°	509.5	504.2	500.4	495.8	492.1	489.8	486.0	482.1	478.4	476.1	473.0
25°	488.3	483.7	477.6	473.0	470.7	467.7	463.1	459.3	455.6	451.7	450.1
27.5°	464.7	458.6	453.3	447.9	445.6	443.3	438.0	433.4	430.3	426.6	425.0
30°	438.7	432.6	426.6	422.0	419.7	415.9	412.9	407.5	403.8	400.6	396.9
32.5°	409.0	404.5	399.2	392.3	390.8	387.8	383.2	380.9	376.2	373.9	370.9
35°	377.1	373.9	368.7	363.4	361.1	359.5	355.7	351.1	348.1	345.8	344.3
37.5°	346.5	342.8	337.4	333.7	332.1	329.8	325.3	323.0	320.0	318.4	315.4
40°	313.8	310.0	306.1	303.9	301.6	300.1	297.0	294.7	291.7	289.4	288.7
42.5°	281.9	279.6	276.5	273.5	272.7	270.4	268.9	266.6	264.3	263.6	261.3
45°	252.9	250.6	247.6	244.5	243.8	242.2	241.5	239.2	237.6	237.6	237.6
47.5°	223.9	221.6	218.6	217.1	217.8	214.8	214.8	214.1	212.5	212.5	213.2
50°	198.1	195.0	194.2	192.7	191.2	189.7	190.4	188.1	188.1	189.7	189.0
52.5°	173.7	170.6	169.8	168.3	167.6	167.6	166.8	166.8	166.0	166.8	166.8
55°	151.6	149.3	147.7	146.3	145.4	145.4	145.4	144.7	144.0	145.4	146.3
57.5°	131.7	131.0	129.5	127.2	126.5	125.7	124.9	124.9	124.9	124.9	125.7
60°	114.3	112.7	111.2	108.9	108.9	108.2	107.5	106.6	106.6	106.6	106.6
62.5°	99.0	96.8	94.5	92.9	92.2	91.4	90.6	89.1	89.1	89.1	89.1
65°	83.8	81.5	79.9	78.5	76.9	76.9	75.4	74.6	73.1	72.4	70.8
67.5°	69.4	67.8	66.2	63.9	63.2	62.5	60.9	60.2	57.9	57.1	56.4
70°	56.4	54.1	52.5	51.1	50.2	48.8	47.2	45.7	44.2	42.7	41.1
72.5°	44.2	41.9	40.4	38.8	37.4	37.4	35.1	33.5	31.3	29.7	27.4
75°	32.7	30.4	29.0	26.7	25.8	25.1	22.8	21.3	19.0	16.7	15.3
77.5°	22.1	20.6	19.0	16.7	15.3	15.3	13.0	11.4	9.9	7.6	6.9
80°	13.7	12.1	10.7	9.1	9.1	7.6	6.9	5.3	3.8	3.0	2.3
82.5°	7.6	6.9	6.1	4.6	4.6	3.8	3.0	2.3	1.6	0.7	0.7
85°	3.8	3.0	2.3	2.3	1.6	1.6	1.6	0.7	0.7	0.0	0.0
87.5°	1.6	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: P593545

CATALOG NUMBER: HCC8S10D010BZ-HM80520950-81RWWC

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5
2.5°	569.0	569.0	568.2	568.2	568.2	567.5	568.2	567.5	567.5	567.5	568.2
5°	565.9	564.5	564.5	563.6	563.6	562.9	563.6	562.9	562.2	561.3	562.2
7.5°	559.9	558.3	557.6	556.8	556.8	556.8	556.0	555.3	556.0	553.8	555.3
10°	551.5	550.8	549.2	548.5	547.6	548.5	547.6	546.2	546.2	546.2	545.3
12.5°	540.8	539.3	538.5	537.8	536.2	536.2	537.1	535.5	535.5	533.9	533.9
15°	527.9	526.4	524.8	524.8	523.4	523.4	522.5	522.5	521.8	521.1	521.1
17.5°	511.8	509.5	508.1	508.8	508.1	507.2	507.2	505.8	505.0	505.8	505.8
20°	492.8	491.3	489.8	490.5	489.0	488.3	489.0	486.7	487.5	487.5	487.5
22.5°	471.5	470.7	468.4	468.4	467.0	466.1	467.0	467.0	467.7	467.0	467.0
25°	447.9	446.3	444.9	444.9	444.0	443.3	444.0	444.9	444.0	444.9	444.9
27.5°	422.7	420.5	420.5	418.9	418.9	419.7	418.9	419.7	420.5	420.5	422.0
30°	395.3	394.6	393.8	393.1	393.1	393.8	393.8	393.8	394.6	396.1	396.1
32.5°	369.4	367.9	366.4	366.4	367.9	367.1	367.9	367.9	369.4	369.4	370.9
35°	341.2	341.2	339.7	340.5	340.5	340.5	340.5	342.0	343.5	344.3	345.8
37.5°	315.4	313.1	313.8	313.8	314.6	313.8	316.1	316.1	317.7	317.7	319.1
40°	287.2	287.2	287.9	287.2	287.9	287.9	289.4	291.0	291.7	293.3	294.0
42.5°	260.5	262.0	260.5	261.3	262.0	262.8	263.6	264.3	267.3	268.9	271.2
45°	236.1	236.9	237.6	238.4	237.6	239.2	239.9	241.5	243.8	244.5	245.3
47.5°	212.5	213.2	214.1	214.8	214.8	216.4	217.1	218.6	220.1	220.9	221.6
50°	189.7	191.2	192.0	192.0	192.7	194.2	195.8	195.8	197.2	199.5	200.4
52.5°	169.1	169.1	170.6	171.4	172.1	172.1	174.4	175.3	176.0	177.5	179.0
55°	146.3	148.6	149.3	149.3	150.9	152.3	153.1	153.9	153.9	156.9	156.9
57.5°	126.5	127.2	128.7	128.7	128.7	131.0	131.0	132.6	133.3	134.0	135.6
60°	106.6	108.2	108.2	108.9	108.2	109.7	110.5	112.0	112.7	113.5	114.3
62.5°	88.3	88.3	89.1	89.1	89.1	89.1	90.6	90.6	92.2	92.9	93.6
65°	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	71.6	71.6	73.1
67.5°	54.8	54.1	52.5	53.4	52.5	52.5	51.8	51.8	52.5	52.5	54.1
70°	39.7	38.8	37.4	37.4	36.5	35.8	35.1	34.3	33.5	33.5	33.5
72.5°	25.8	24.4	22.1	21.3	21.3	19.8	18.3	17.5	17.5	17.5	17.5
75°	13.0	11.4	9.9	9.1	9.1	7.6	8.4	7.6	7.6	7.6	7.6
77.5°	5.3	3.8	3.0	3.0	3.0	2.3	2.3	2.3	2.3	2.3	2.3
80°	1.6	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: P593545

CATALOG NUMBER: HCC8S10D010BZ-HM80520950-81RWWC

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5
2.5°	567.5	567.5	565.9	566.7	566.7	566.7	566.7	566.7
5°	560.6	561.3	560.6	561.3	561.3	560.6	560.6	560.6
7.5°	553.8	554.5	553.8	554.5	554.5	554.5	553.8	553.8
10°	545.3	545.3	545.3	545.3	545.3	544.6	545.3	545.3
12.5°	533.9	533.9	533.9	534.8	534.8	533.9	533.9	533.2
15°	521.8	520.2	521.1	521.8	521.1	521.1	521.1	521.1
17.5°	505.0	505.8	505.0	505.0	505.0	505.0	505.8	505.0
20°	487.5	487.5	488.3	487.5	487.5	487.5	487.5	486.7
22.5°	467.7	467.0	467.0	467.7	467.7	467.0	467.7	467.7
25°	445.6	446.3	445.6	445.6	446.3	446.3	446.3	445.6
27.5°	422.0	422.7	423.5	422.7	422.7	422.7	423.5	424.3
30°	397.6	399.2	397.6	397.6	399.2	398.3	399.2	399.2
32.5°	371.7	373.9	372.5	373.9	373.9	374.8	373.9	374.8
35°	345.8	348.1	348.1	348.1	348.8	349.7	349.7	348.8
37.5°	321.4	322.3	322.3	323.7	324.5	325.3	325.3	324.5
40°	296.3	297.9	298.6	298.6	298.6	300.1	301.6	300.1
42.5°	271.9	272.7	273.5	273.5	275.0	275.7	276.5	276.5
45°	248.3	249.9	250.6	251.3	252.2	253.6	252.9	254.5
47.5°	223.9	226.2	226.9	227.8	229.2	230.1	230.8	231.5
50°	201.8	203.4	203.4	204.9	207.2	207.2	208.7	209.5
52.5°	179.8	180.5	181.3	182.1	183.5	185.1	185.1	186.7
55°	158.4	159.1	159.1	160.0	160.7	163.7	164.6	164.6
57.5°	136.3	136.3	137.9	138.6	139.4	140.9	140.9	140.9
60°	115.0	115.8	115.8	116.6	117.3	118.9	119.6	118.9
62.5°	93.6	94.5	94.5	95.2	96.8	97.5	96.8	96.8
65°	73.9	74.6	74.6	75.4	76.9	76.9	76.2	76.9
67.5°	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
70°	34.3	33.5	32.7	33.5	33.5	33.5	32.7	34.3
72.5°	16.7	17.5	17.5	17.5	17.5	17.5	17.5	16.7
75°	7.6	7.6	6.9	6.9	6.9	7.6	7.6	6.9
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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)