

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: P583719

Luminaire Tested: **HCC8S10D010BZ-HM80520830-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583719
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-HM80520830-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

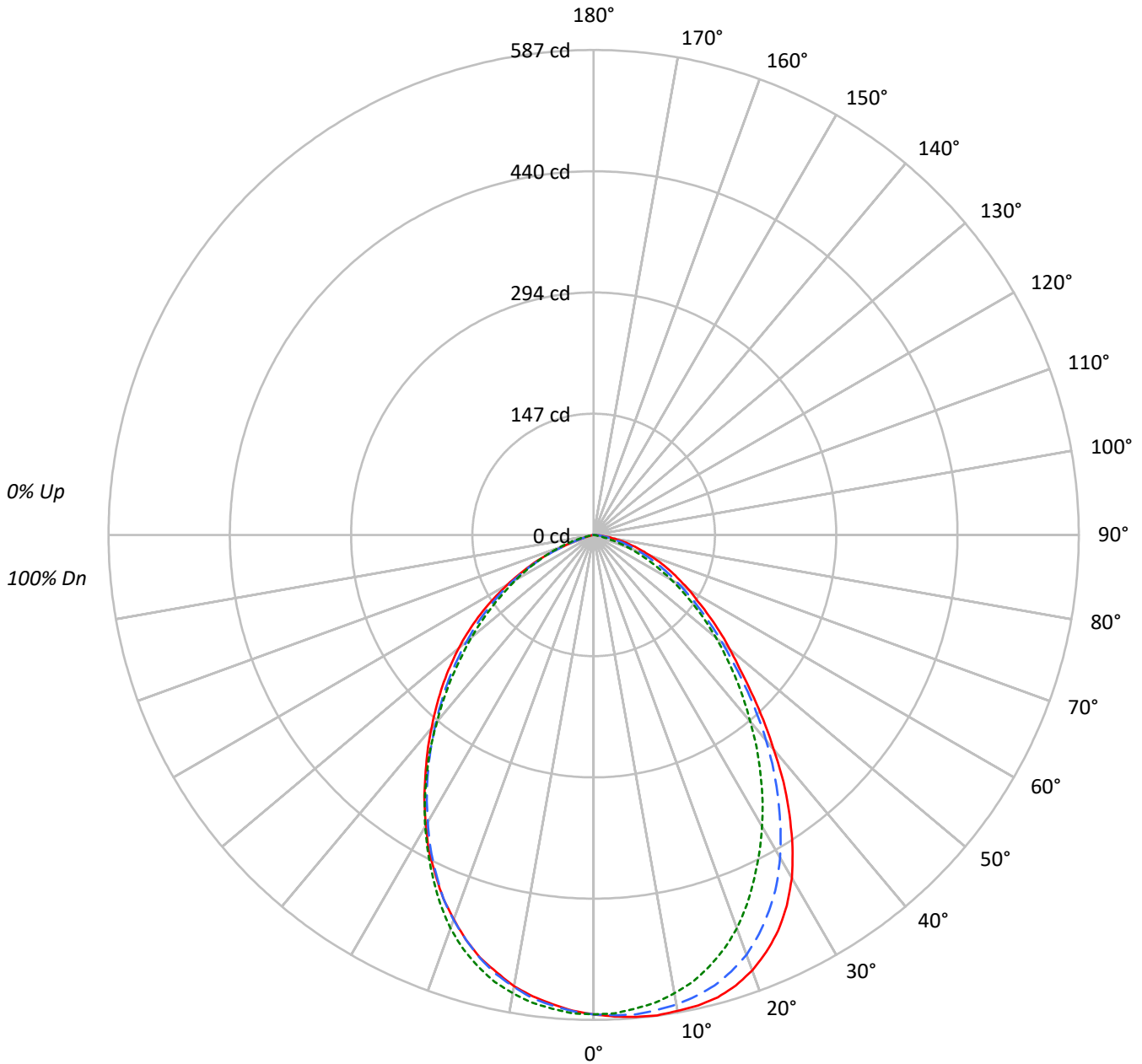
Lumens per Lamp: N/A
Luminaire Lumens: 1102.9 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P583719
CATALOG NUMBER: HCC8S10D010BZ-HM80520830-81RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P583719

CATALOG NUMBER: HCC8S10D010BZ-HM80520830-81RWWC

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°	17894	17894	17894
5°	18130	17817	17650
10°	18318	17638	17369
15°	18503	17265	16920
20°	18409	16631	16247
25°	17978	15631	15423
30°	17077	14513	14456
35°	15547	13239	13356
40°	13630	11851	12290
45°	11757	10540	11286
50°	10300	9254	10223
55°	9123	7957	8994
60°	8221	6685	7456
65°	7399	5370	5713
70°	6491	3913	3147
75°	5540	2037	834
80°	4262	550	124
85°	2724	0	0



TEST NUMBER: P583719

CATALOG NUMBER: HCC8S10D010BZ-HM80520830-81RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	5.0
10°-20°	153.9	14.0
20°-30°	218.5	19.8
30°-40°	230.0	20.9
40°-50°	195.6	17.7
50°-60°	141.4	12.8
60°-70°	80.4	7.3
70°-80°	25.3	2.3
80°-90°	3.1	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°	427.1	38.7
0°-40°	657.1	59.6
0°-60°	994.1	90.1
0°-90°	1102.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1102.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	580	580	580	580	580	
5°	586	583	576	572	570	56
15°	580	565	541	531	530	163
25°	528	502	459	452	453	242
35°	413	389	352	349	355	257
45°	270	260	242	248	259	210
55°	170	157	148	156	167	153
65°	101	88	74	73	78	101
75°	46	36	17	8	7	50
85°	8	5	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: P583719

CATALOG NUMBER: HCC8S10D010BZ-HM80520830-81RWWC

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3
2.5°	583.5	584.2	582.6	582.6	584.2	582.6	583.5	583.5	582.6	582.6	581.9
5°	585.7	585.0	585.0	585.0	585.7	584.2	583.5	584.2	582.6	582.6	582.6
7.5°	586.6	586.6	585.7	585.0	585.0	585.0	584.2	583.5	582.6	581.0	580.3
10°	585.0	585.0	585.7	584.2	584.2	582.6	582.6	581.0	581.0	579.6	577.2
12.5°	583.5	582.6	582.6	581.0	581.0	579.6	579.6	577.2	576.5	574.1	571.8
15°	579.6	578.8	577.2	576.5	575.6	574.9	573.4	572.6	570.2	567.1	564.8
17.5°	571.8	571.1	570.2	568.7	567.1	566.4	565.7	563.3	560.1	557.8	554.0
20°	561.0	560.1	560.1	557.8	557.1	554.7	554.0	550.9	548.6	543.9	540.8
22.5°	546.2	547.0	545.5	543.9	542.3	540.1	538.5	535.4	531.5	526.8	523.0
25°	528.4	529.2	527.7	526.1	523.7	522.3	520.7	516.0	512.2	506.8	502.1
27.5°	505.9	505.9	505.9	504.4	500.5	499.8	498.2	493.5	488.1	483.4	478.9
30°	479.6	478.9	478.9	476.5	474.9	471.9	469.5	465.7	461.8	456.4	451.0
32.5°	447.9	448.6	446.3	444.7	442.5	442.5	439.3	436.2	431.5	426.1	420.7
35°	413.0	413.7	412.2	411.4	407.6	406.8	406.0	402.1	399.1	395.1	389.0
37.5°	377.3	376.6	375.7	375.7	373.5	371.9	370.3	368.1	363.4	360.2	357.2
40°	338.6	338.6	338.6	337.8	337.0	335.5	334.8	333.2	330.1	326.9	324.7
42.5°	303.7	303.7	302.9	302.2	300.6	301.3	299.9	298.3	295.2	292.9	291.4
45°	269.6	269.6	269.6	270.4	268.9	266.5	266.5	265.0	263.5	261.9	259.5
47.5°	239.4	241.7	240.2	239.4	240.2	237.0	237.0	235.6	234.0	232.5	229.3
50°	214.7	214.7	214.7	213.1	212.3	212.3	210.0	208.4	207.7	206.1	203.0
52.5°	192.2	190.6	190.6	189.8	189.1	187.5	187.5	185.9	182.8	181.3	179.0
55°	169.7	169.7	168.9	168.2	167.3	166.6	165.8	163.5	161.9	159.6	157.3
57.5°	149.5	151.1	150.4	148.8	147.2	147.2	145.7	144.1	141.8	139.4	137.1
60°	133.3	132.5	132.5	131.7	130.2	129.3	128.6	126.3	123.9	121.6	119.4
62.5°	116.2	116.2	116.2	114.7	113.1	112.4	111.5	110.0	107.0	104.6	103.0
65°	101.4	100.7	100.0	99.2	98.4	96.9	96.0	94.5	92.2	89.9	87.5
67.5°	86.8	85.9	85.9	85.2	82.9	82.1	82.1	79.8	77.5	75.1	72.8
70°	72.0	72.0	72.0	70.6	69.7	69.0	68.2	66.6	64.3	62.0	59.6
72.5°	59.6	58.9	58.9	58.1	55.8	55.1	54.2	52.6	50.4	48.8	47.2
75°	46.5	46.5	45.7	45.0	44.1	43.4	42.7	41.1	38.7	36.4	35.7
77.5°	35.7	34.9	34.9	34.1	32.6	31.7	31.7	30.2	27.9	26.3	24.8
80°	24.0	24.8	24.0	23.2	22.5	21.6	20.9	20.2	18.6	17.1	15.5
82.5°	14.7	15.5	14.7	14.7	13.9	13.2	13.2	11.7	10.8	10.1	9.3
85°	7.7	7.7	7.7	7.7	7.0	7.0	7.0	6.3	5.4	4.7	4.7
87.5°	2.3	3.1	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: P583719

CATALOG NUMBER: HCC8S10D010BZ-HM80520830-81RWWC

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3
2.5°	582.6	581.9	581.0	581.0	581.0	581.0	581.0	580.3	579.6	579.6	579.6
5°	581.0	581.0	581.0	580.3	579.6	579.6	578.0	577.2	576.5	575.6	574.9
7.5°	579.6	578.0	577.2	576.5	575.6	575.6	574.1	572.6	572.6	571.1	569.5
10°	574.9	574.1	572.6	571.1	570.2	569.5	567.9	565.7	564.8	563.3	561.7
12.5°	569.5	567.9	566.4	563.3	562.5	561.7	558.7	556.3	554.7	554.0	550.2
15°	562.5	559.4	557.1	553.2	552.4	550.9	548.6	546.2	543.2	540.8	539.2
17.5°	550.2	547.0	543.2	539.2	537.7	537.7	533.8	530.7	526.8	525.3	522.3
20°	535.4	531.5	528.4	523.7	521.4	519.1	516.7	512.2	509.0	506.8	502.8
22.5°	518.3	512.9	509.0	504.4	500.5	498.2	494.3	490.4	486.6	484.3	481.2
25°	496.7	492.0	485.8	481.2	478.9	475.8	471.1	467.2	463.4	459.4	458.0
27.5°	472.6	466.4	461.0	455.6	453.3	451.0	445.5	440.9	437.8	433.9	432.4
30°	446.3	440.1	433.9	429.2	427.0	423.0	420.0	414.6	410.6	407.6	403.6
32.5°	416.0	411.4	406.0	399.1	397.5	394.4	389.7	387.4	382.7	380.4	377.3
35°	383.6	380.4	375.0	369.6	367.2	365.6	361.8	357.2	354.1	351.7	350.3
37.5°	352.5	348.7	343.3	339.3	337.8	335.5	330.8	328.5	325.4	323.8	320.8
40°	319.3	315.3	311.4	309.2	306.9	305.3	302.2	299.9	296.8	294.4	293.6
42.5°	286.7	284.4	281.3	278.1	277.4	275.0	273.5	271.2	268.9	268.0	265.8
45°	257.2	254.9	251.8	248.7	248.0	246.4	245.6	243.3	241.7	241.7	241.7
47.5°	227.8	225.5	222.4	220.8	221.6	218.5	218.5	217.7	216.1	216.1	217.0
50°	201.5	198.3	197.6	196.0	194.5	192.9	193.6	191.4	191.4	192.9	192.2
52.5°	176.7	173.6	172.7	171.3	170.4	170.4	169.7	169.7	168.9	169.7	169.7
55°	154.2	151.8	150.4	148.8	148.0	148.0	148.0	147.2	146.4	148.0	148.8
57.5°	134.0	133.3	131.7	129.3	128.6	127.9	127.1	127.1	127.1	127.1	127.9
60°	116.2	114.7	113.1	110.8	110.8	110.0	109.3	108.4	108.4	108.4	108.4
62.5°	100.7	98.4	96.0	94.5	93.8	93.0	92.2	90.6	90.6	90.6	90.6
65°	85.2	82.9	81.4	79.8	78.3	78.3	76.7	76.0	74.4	73.6	72.0
67.5°	70.6	69.0	67.4	65.0	64.3	63.6	62.0	61.2	58.9	58.1	57.3
70°	57.3	55.1	53.5	51.9	51.1	49.6	48.1	46.5	45.0	43.4	41.8
72.5°	45.0	42.7	41.1	39.5	38.0	38.0	35.7	34.1	31.7	30.2	27.9
75°	33.3	31.0	29.4	27.2	26.3	25.6	23.2	21.6	19.4	17.1	15.5
77.5°	22.5	20.9	19.4	17.1	15.5	15.5	13.2	11.7	10.1	7.7	7.0
80°	13.9	12.4	10.8	9.3	9.3	7.7	7.0	5.4	3.8	3.1	2.3
82.5°	7.7	7.0	6.3	4.7	4.7	3.8	3.1	2.3	1.6	0.7	0.7
85°	3.8	3.1	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

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



TEST NUMBER: P583719

CATALOG NUMBER: HCC8S10D010BZ-HM80520830-81RWWC

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3
2.5°	578.8	578.8	578.0	578.0	578.0	577.2	578.0	577.2	577.2	577.2	578.0
5°	575.6	574.1	574.1	573.4	573.4	572.6	573.4	572.6	571.8	571.1	571.8
7.5°	569.5	567.9	567.1	566.4	566.4	566.4	565.7	564.8	565.7	563.3	564.8
10°	561.0	560.1	558.7	557.8	557.1	557.8	557.1	555.6	555.6	555.6	554.7
12.5°	550.2	548.6	547.8	547.0	545.5	545.5	546.2	544.6	544.6	543.2	543.2
15°	536.9	535.4	533.8	533.8	532.2	532.2	531.5	531.5	530.7	530.0	530.0
17.5°	520.7	518.3	516.7	517.6	516.7	516.0	516.0	514.5	513.7	514.5	514.5
20°	501.4	499.8	498.2	499.0	497.4	496.7	497.4	495.1	495.8	495.8	495.8
22.5°	479.6	478.9	476.5	476.5	474.9	474.2	474.9	474.9	475.8	474.9	474.9
25°	455.6	454.0	452.4	452.4	451.7	451.0	451.7	452.4	451.7	452.4	452.4
27.5°	430.0	427.7	427.7	426.1	426.1	427.0	426.1	427.0	427.7	427.7	429.2
30°	402.1	401.3	400.6	399.8	399.8	400.6	400.6	400.6	401.3	402.9	402.9
32.5°	375.7	374.2	372.6	372.6	374.2	373.5	374.2	374.2	375.7	375.7	377.3
35°	347.1	347.1	345.6	346.3	346.3	346.3	346.3	347.9	349.4	350.3	351.7
37.5°	320.8	318.4	319.3	319.3	320.0	319.3	321.5	321.5	323.1	323.1	324.7
40°	292.1	292.1	292.9	292.1	292.9	292.9	294.4	295.9	296.8	298.3	299.1
42.5°	265.0	266.5	265.0	265.8	266.5	267.3	268.0	268.9	272.0	273.5	275.9
45°	240.2	241.0	241.7	242.6	241.7	243.3	244.0	245.6	248.0	248.7	249.5
47.5°	216.1	217.0	217.7	218.5	218.5	220.1	220.8	222.4	223.9	224.7	225.5
50°	192.9	194.5	195.2	195.2	196.0	197.6	199.2	199.2	200.6	203.0	203.7
52.5°	172.0	172.0	173.6	174.3	175.1	175.1	177.4	178.3	179.0	180.5	182.1
55°	148.8	151.1	151.8	151.8	153.4	154.9	155.8	156.5	156.5	159.6	159.6
57.5°	128.6	129.3	130.9	130.9	130.9	133.3	133.3	134.9	135.6	136.3	137.9
60°	108.4	110.0	110.0	110.8	110.0	111.5	112.4	113.9	114.7	115.4	116.2
62.5°	89.9	89.9	90.6	90.6	90.6	90.6	92.2	92.2	93.8	94.5	95.3
65°	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.8	72.8	74.4
67.5°	55.8	55.1	53.5	54.2	53.5	53.5	52.6	52.6	53.5	53.5	55.1
70°	40.3	39.5	38.0	38.0	37.1	36.4	35.7	34.9	34.1	34.1	34.1
72.5°	26.3	24.8	22.5	21.6	21.6	20.2	18.6	17.8	17.8	17.8	17.8
75°	13.2	11.7	10.1	9.3	9.3	7.7	8.5	7.7	7.7	7.7	7.7
77.5°	5.4	3.8	3.1	3.1	3.1	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: P583719

CATALOG NUMBER: HCC8S10D010BZ-HM80520830-81RWWC

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3
2.5°	577.2	577.2	575.6	576.5	576.5	576.5	576.5	576.5
5°	570.2	571.1	570.2	571.1	571.1	570.2	570.2	570.2
7.5°	563.3	564.1	563.3	564.1	564.1	564.1	563.3	563.3
10°	554.7	554.7	554.7	554.7	554.7	554.0	554.7	554.7
12.5°	543.2	543.2	543.2	543.9	543.9	543.2	543.2	542.3
15°	530.7	529.2	530.0	530.7	530.0	530.0	530.0	530.0
17.5°	513.7	514.5	513.7	513.7	513.7	513.7	514.5	513.7
20°	495.8	495.8	496.7	495.8	495.8	495.8	495.8	495.1
22.5°	475.8	474.9	474.9	475.8	475.8	474.9	475.8	475.8
25°	453.3	454.0	453.3	453.3	454.0	454.0	454.0	453.3
27.5°	429.2	430.0	430.8	430.0	430.0	430.0	430.8	431.5
30°	404.5	406.0	404.5	404.5	406.0	405.2	406.0	406.0
32.5°	378.1	380.4	378.9	380.4	380.4	381.2	380.4	381.2
35°	351.7	354.1	354.1	354.1	354.8	355.7	355.7	354.8
37.5°	326.9	327.8	327.8	329.3	330.1	330.8	330.8	330.1
40°	301.3	302.9	303.7	303.7	303.7	305.3	306.9	305.3
42.5°	276.6	277.4	278.1	278.1	279.7	280.4	281.3	281.3
45°	252.5	254.1	254.9	255.7	256.5	257.9	257.2	258.8
47.5°	227.8	230.1	230.9	231.6	233.2	234.0	234.8	235.6
50°	205.3	206.9	206.9	208.4	210.7	210.7	212.3	213.1
52.5°	182.8	183.7	184.4	185.2	186.7	188.2	188.2	189.8
55°	161.2	161.9	161.9	162.8	163.5	166.6	167.3	167.3
57.5°	138.7	138.7	140.3	141.0	141.8	143.3	143.3	143.3
60°	117.0	117.8	117.8	118.5	119.4	120.9	121.6	120.9
62.5°	95.3	96.0	96.0	96.9	98.4	99.2	98.4	98.4
65°	75.1	76.0	76.0	76.7	78.3	78.3	77.5	78.3
67.5°	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
70°	34.9	34.1	33.3	34.1	34.1	34.1	33.3	34.9
72.5°	17.1	17.8	17.8	17.8	17.8	17.8	17.8	17.1
75°	7.7	7.7	7.0	7.0	7.0	7.7	7.7	7.0
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)