

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: P593532

Luminaire Tested: **HCC8S10D010MB-HM80520850-81WWWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593532  
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: HCC8S10D010MB-HM80520850-81WWWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

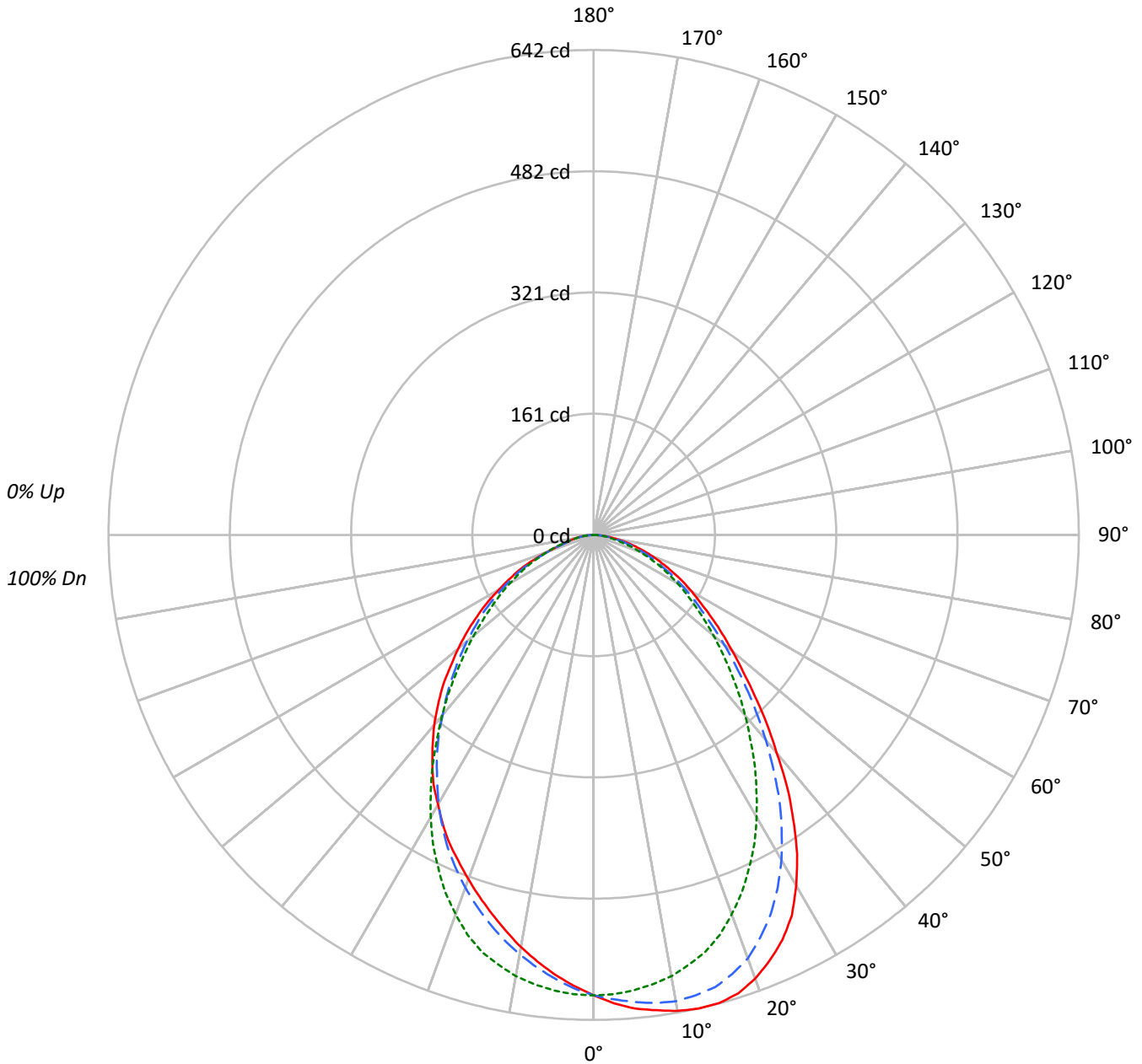
Lumens per Lamp: N/A  
Luminaire Lumens: 1225.8 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P593532  
CATALOG NUMBER: HCC8S10D010MB-HM80520850-81WWWB

### Luminous Intensity Polar Plot





TEST NUMBER: P593532

CATALOG NUMBER: HCC8S10D010MB-HM80520850-81WWWB

**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°	18795	18795	18795
5°	19483	18733	18090
10°	20033	18571	17350
15°	20479	18241	16585
20°	20510	17530	15909
25°	20118	16556	15348
30°	19082	15354	14670
35°	17339	13981	14015
40°	15160	12547	13207
45°	13139	11177	12306
50°	11504	9926	11216
55°	10242	8795	10145
60°	9239	7900	8918
65°	8340	6946	7771
70°	7492	5851	5779
75°	6600	4635	4337
80°	5523	3836	4138
85°	4281	3361	3644



TEST NUMBER: P593532  
 CATALOG NUMBER: HCC8S10D010MB-HM80520850-81WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.5	4.7
10°-20°	161.9	13.2
20°-30°	231.4	18.9
30°-40°	245.9	20.1
40°-50°	211.7	17.3
50°-60°	158.3	12.9
60°-70°	101.0	8.2
70°-80°	45.9	3.7
80°-90°	12.0	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°	450.9	36.8
0°-40°	696.8	56.8
0°-60°	1066.9	87.0
0°-90°	1225.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1225.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	610	610	610	610	610	
5°	629	621	605	590	584	60
15°	642	620	571	532	520	181
25°	591	554	487	457	451	271
35°	461	428	371	362	372	287
45°	301	285	256	263	282	234
55°	190	175	164	178	189	171
65°	114	101	95	100	106	114
75°	55	48	39	36	36	59
85°	12	10	10	10	10	15
90°	0	0	0	0	0	

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



TEST NUMBER: P593532

CATALOG NUMBER: HCC8S10D010MB-HM80520850-81WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5
2.5°	620.7	619.0	619.9	619.0	619.9	619.9	618.2	618.2	618.2	618.2	615.5
5°	629.4	628.5	628.5	627.7	626.8	627.7	626.8	626.0	624.2	623.4	620.7
7.5°	634.7	634.7	634.7	634.7	633.7	632.9	632.0	630.3	628.5	626.8	625.0
10°	639.8	640.7	639.8	639.0	638.0	636.3	635.5	633.7	631.2	628.5	626.8
12.5°	642.3	642.3	641.5	641.5	639.8	639.0	636.3	633.7	631.2	628.5	624.2
15°	641.5	641.5	640.7	639.8	637.2	636.3	634.7	632.0	627.7	624.2	619.9
17.5°	636.3	635.5	633.7	633.7	630.3	629.4	627.7	624.2	619.9	614.7	609.5
20°	625.0	625.0	624.2	623.4	619.9	617.3	615.5	611.2	607.7	601.7	596.6
22.5°	609.5	611.2	609.5	607.7	603.4	602.6	599.9	594.7	589.6	582.6	576.6
25°	591.3	590.4	589.6	587.9	584.4	582.6	579.2	574.0	568.8	561.0	554.1
27.5°	567.9	564.5	564.5	561.0	558.4	555.8	554.1	548.8	542.0	535.9	527.2
30°	535.9	536.8	532.5	531.5	527.2	525.5	522.0	516.9	510.8	503.9	496.9
32.5°	501.2	498.7	498.7	495.2	491.7	489.2	488.3	482.2	477.1	470.1	463.1
35°	460.6	460.6	458.0	457.1	453.6	452.0	449.3	445.8	439.8	433.8	428.5
37.5°	420.7	419.0	418.2	416.4	413.8	411.2	411.2	405.2	404.4	397.4	390.4
40°	376.6	378.4	376.6	374.1	373.1	371.4	370.6	367.1	364.4	358.4	354.1
42.5°	339.3	337.6	337.6	336.8	333.3	333.3	331.6	329.8	325.5	323.8	318.7
45°	301.3	303.0	300.4	301.3	297.9	297.9	297.9	294.4	290.9	288.2	284.9
47.5°	268.4	269.2	269.2	266.6	265.8	265.8	264.1	262.3	259.8	256.3	253.6
50°	239.8	240.6	239.0	238.1	236.3	235.5	235.5	232.0	230.3	226.8	225.1
52.5°	213.8	213.8	213.0	213.0	210.4	210.4	208.7	206.0	204.3	202.5	198.2
55°	190.5	190.5	189.6	188.7	188.7	186.2	185.2	182.7	180.9	177.5	174.9
57.5°	167.9	168.9	167.9	167.1	166.2	165.4	163.6	161.1	159.3	156.7	154.9
60°	149.8	149.8	148.9	148.1	146.3	145.4	144.6	142.8	140.3	138.5	135.9
62.5°	132.5	131.6	130.8	129.8	128.1	128.1	126.5	124.6	122.1	120.3	118.6
65°	114.3	114.3	113.5	113.5	112.5	110.8	110.0	109.1	105.7	104.8	101.3
67.5°	97.8	98.7	97.0	97.0	95.2	95.2	94.4	91.7	90.9	89.2	87.4
70°	83.1	83.1	83.1	82.2	80.5	79.7	78.7	77.0	76.2	74.4	72.7
72.5°	68.4	68.4	67.6	67.6	66.7	65.7	64.9	63.2	63.2	61.4	59.7
75°	55.4	55.4	54.6	53.7	52.8	52.8	51.9	51.1	49.4	48.4	47.6
77.5°	42.4	42.4	42.4	41.6	40.7	40.7	40.7	38.9	37.3	37.3	36.4
80°	31.1	31.1	30.3	30.3	29.4	29.4	29.4	28.6	27.6	26.8	26.0
82.5°	20.8	20.8	20.8	20.8	20.0	20.0	20.0	19.0	18.2	18.2	18.2
85°	12.1	12.1	12.1	12.1	11.3	11.3	11.3	11.3	11.3	10.3	10.3
87.5°	5.2	4.3	5.2	4.3	5.2	4.3	5.2	4.3	4.3	4.3	4.3
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: P593532

CATALOG NUMBER: HCC8S10D010MB-HM80520850-81WWWB

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5
2.5°	616.4	615.5	614.7	613.9	613.9	612.9	611.2	610.4	609.5	608.6	608.6
5°	619.9	619.0	617.3	615.5	614.7	612.9	611.2	609.5	607.7	605.2	604.2
7.5°	622.5	619.9	618.2	614.7	613.9	612.1	609.5	606.9	603.4	599.9	597.4
10°	622.5	619.0	616.4	612.1	610.4	608.6	605.2	600.9	596.6	593.1	588.7
12.5°	620.7	616.4	612.1	607.7	605.2	602.6	597.4	593.1	587.9	582.6	579.2
15°	614.7	609.5	604.2	599.1	596.6	593.1	587.9	581.8	576.6	571.4	565.3
17.5°	603.4	598.2	592.2	586.1	582.6	580.1	572.3	567.9	560.1	555.0	549.8
20°	588.7	582.6	574.9	568.8	564.5	561.9	555.8	548.0	542.0	534.2	529.0
22.5°	569.6	561.9	554.1	548.0	543.7	540.2	532.5	524.7	519.5	512.5	506.5
25°	547.2	539.3	531.5	522.9	518.5	515.2	508.2	501.2	494.4	486.6	481.4
27.5°	520.3	511.7	504.7	496.9	492.6	487.4	479.6	472.7	465.8	460.6	453.6
30°	490.9	481.4	474.4	466.6	462.3	458.0	450.1	443.3	437.2	431.2	427.7
32.5°	455.4	448.5	441.5	433.8	430.3	427.7	419.9	413.0	406.0	400.9	398.2
35°	421.7	413.8	407.7	400.9	396.5	393.9	387.0	380.9	377.4	371.4	367.9
37.5°	386.1	380.1	373.1	366.2	363.6	361.1	355.8	349.8	344.6	340.3	338.5
40°	348.9	343.7	337.6	333.3	330.7	328.1	323.8	319.5	316.0	311.7	310.0
42.5°	313.4	310.0	304.7	299.5	297.0	296.1	290.9	287.4	285.7	283.9	282.2
45°	281.4	276.2	272.7	269.2	266.6	264.9	262.3	259.8	257.9	256.3	254.6
47.5°	250.3	245.9	242.4	239.8	237.3	236.3	234.6	232.0	230.3	230.3	230.3
50°	221.6	218.2	214.7	213.0	212.2	210.4	208.7	207.8	206.9	206.9	206.9
52.5°	196.5	193.0	190.5	188.7	188.7	187.0	185.2	184.4	184.4	184.4	184.4
55°	173.2	170.6	168.9	167.1	165.4	164.6	164.6	164.6	163.6	163.6	164.6
57.5°	152.4	150.6	148.1	146.3	145.4	145.4	144.6	143.8	144.6	145.4	146.3
60°	133.3	131.6	130.8	128.1	128.1	128.1	127.3	127.3	127.3	128.1	129.0
62.5°	116.0	115.2	113.5	112.5	111.7	111.7	110.8	110.8	110.8	110.8	111.7
65°	100.5	98.7	97.0	97.0	97.0	96.0	96.0	94.4	95.2	95.2	94.4
67.5°	85.7	84.0	83.1	82.2	81.4	81.4	80.5	79.7	78.7	78.7	78.7
70°	71.9	70.1	70.1	68.4	68.4	67.6	66.7	66.7	65.7	64.9	64.1
72.5°	58.1	57.1	56.3	55.4	55.4	55.4	54.6	53.7	52.8	51.9	50.2
75°	45.9	45.9	44.1	43.3	43.3	42.4	41.6	40.7	39.8	38.9	38.1
77.5°	35.5	34.6	32.9	32.0	32.0	32.0	31.1	30.3	29.4	28.6	27.6
80°	26.0	25.1	24.3	23.3	23.3	23.3	22.5	22.5	21.6	21.6	21.6
82.5°	17.3	17.3	16.5	16.5	16.5	16.5	15.6	15.6	15.6	15.6	15.6
85°	10.3	10.3	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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: P593532

CATALOG NUMBER: HCC8S10D010MB-HM80520850-81WWWB

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5
2.5°	606.9	606.9	605.2	604.2	603.4	604.2	602.6	601.7	600.9	600.9	599.9
5°	601.7	600.9	597.4	596.6	595.6	594.7	593.1	591.3	589.6	588.7	587.9
7.5°	594.7	592.2	588.7	587.9	586.9	584.4	581.8	580.1	577.4	576.6	574.9
10°	585.3	581.8	579.2	576.6	574.9	572.3	569.6	567.1	563.6	562.8	560.1
12.5°	574.0	569.6	564.5	563.6	561.0	557.6	554.1	551.5	548.8	547.2	544.5
15°	560.1	555.8	550.6	548.0	545.5	542.8	538.5	535.0	532.5	529.8	527.2
17.5°	543.7	538.5	534.2	531.5	529.8	525.5	522.0	517.7	515.2	512.5	509.9
20°	523.8	519.5	513.4	510.8	509.9	506.5	502.2	500.4	496.9	494.4	492.6
22.5°	501.2	496.9	491.7	490.1	486.6	484.8	480.4	478.8	477.1	474.4	473.6
25°	476.1	471.8	467.5	466.6	464.1	462.3	459.8	457.1	457.1	454.5	454.5
27.5°	450.1	445.8	442.5	440.7	439.8	438.1	435.5	434.6	433.8	432.8	432.8
30°	422.5	417.3	415.5	414.7	413.8	412.0	411.2	409.5	410.4	411.2	410.4
32.5°	393.1	391.4	387.9	386.1	387.0	386.1	384.4	386.1	385.2	387.0	387.9
35°	364.4	362.8	361.1	361.1	359.3	359.3	359.3	360.1	361.9	362.8	364.4
37.5°	336.8	334.2	333.3	332.5	333.3	333.3	333.3	335.0	336.8	338.5	341.1
40°	307.4	305.7	305.7	305.7	305.7	308.2	307.4	309.0	310.8	313.4	316.0
42.5°	279.6	279.6	280.5	280.5	280.5	280.5	282.2	284.9	287.4	290.0	292.7
45°	253.6	253.6	253.6	255.4	255.4	256.3	259.8	261.4	263.2	265.8	268.4
47.5°	229.5	229.5	230.3	231.1	232.0	233.8	235.5	238.1	240.6	242.4	245.0
50°	206.9	207.8	209.5	211.2	211.2	212.2	214.7	216.5	218.2	220.8	221.6
52.5°	185.2	187.0	188.7	189.6	190.5	192.2	193.0	195.7	196.5	199.2	200.0
55°	165.4	166.2	168.9	169.7	169.7	171.4	173.2	174.9	177.5	177.5	179.2
57.5°	147.1	148.1	149.8	150.6	149.8	152.4	153.3	154.9	155.8	157.6	158.4
60°	129.0	130.8	131.6	131.6	132.5	133.3	135.1	135.1	136.8	138.5	138.5
62.5°	111.7	112.5	113.5	114.3	115.2	114.3	116.8	116.8	118.6	119.5	121.2
65°	95.2	96.0	96.0	97.0	97.0	97.8	97.8	98.7	99.5	101.3	102.2
67.5°	78.7	78.7	78.7	79.7	78.7	79.7	79.7	80.5	80.5	82.2	83.1
70°	64.1	63.2	62.4	62.4	62.4	62.4	61.4	62.4	62.4	63.2	63.2
72.5°	49.4	48.4	47.6	46.8	46.8	45.9	45.1	45.9	45.9	46.8	46.8
75°	37.3	35.5	35.5	35.5	34.6	34.6	34.6	35.5	35.5	35.5	36.4
77.5°	27.6	27.6	26.8	26.8	26.8	27.6	27.6	28.6	28.6	28.6	28.6
80°	20.8	21.6	21.6	21.6	21.6	22.5	22.5	22.5	22.5	23.3	23.3
82.5°	15.6	15.6	15.6	15.6	16.5	16.5	16.5	16.5	16.5	16.5	16.5
85°	9.5	10.3	10.3	9.5	10.3	10.3	10.3	10.3	10.3	10.3	10.3
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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: P593532

CATALOG NUMBER: HCC8S10D010MB-HM80520850-81WWWB

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5
2.5°	599.1	599.1	599.1	599.1	598.2	598.2	598.2	597.4
5°	586.1	586.1	586.1	584.4	585.3	585.3	583.6	584.4
7.5°	573.1	572.3	571.4	571.4	570.6	569.6	568.8	569.6
10°	558.4	555.8	555.8	555.0	555.0	553.3	553.3	554.1
12.5°	542.0	540.2	540.2	539.3	538.5	537.7	536.8	536.8
15°	525.5	523.8	522.9	522.0	521.2	519.5	520.3	519.5
17.5°	509.0	506.5	506.5	505.6	504.7	503.0	503.0	502.2
20°	490.1	489.2	487.4	488.3	487.4	485.7	484.8	484.8
22.5°	470.9	470.9	470.1	470.1	469.3	468.4	467.5	467.5
25°	452.8	452.0	452.8	452.8	450.1	450.1	450.1	451.1
27.5°	432.0	432.8	432.0	432.0	432.0	432.0	432.8	432.0
30°	411.2	411.2	411.2	412.0	413.8	413.0	413.0	412.0
32.5°	388.7	389.6	389.6	390.4	391.4	393.1	393.1	393.9
35°	366.2	367.9	368.8	367.9	370.6	370.6	372.3	372.3
37.5°	342.8	343.7	345.5	346.3	348.0	348.9	349.8	349.8
40°	317.7	321.2	322.0	323.0	325.5	325.5	326.3	328.1
42.5°	294.4	297.9	298.7	299.5	301.3	303.9	303.0	304.7
45°	271.9	274.4	275.3	276.2	278.7	279.6	279.6	282.2
47.5°	247.6	249.3	250.3	251.9	253.6	255.4	257.1	256.3
50°	223.3	226.0	227.7	228.6	231.1	232.0	232.9	233.8
52.5°	201.7	203.5	204.3	205.2	207.8	208.7	209.5	211.2
55°	180.9	181.9	183.5	182.7	185.2	186.2	187.0	188.7
57.5°	160.1	161.1	161.9	161.9	163.6	165.4	166.2	167.1
60°	140.3	142.0	142.8	142.8	142.8	144.6	144.6	144.6
62.5°	122.1	122.1	123.0	123.0	124.6	124.6	124.6	124.6
65°	103.0	103.9	104.8	104.8	106.5	105.7	107.3	106.5
67.5°	83.1	83.1	84.9	84.9	84.0	84.9	84.9	84.9
70°	63.2	63.2	64.1	64.1	64.1	64.1	64.1	64.1
72.5°	46.8	46.8	46.8	47.6	46.8	46.8	47.6	46.8
75°	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
77.5°	28.6	28.6	29.4	29.4	29.4	29.4	29.4	29.4
80°	23.3	23.3	23.3	23.3	24.3	23.3	23.3	23.3
82.5°	17.3	16.5	17.3	16.5	17.3	17.3	17.3	17.3
85°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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)