

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: P583880

Luminaire Tested: **HCC8S15D010MB-HM80520835-81WWW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583880  
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: HCC8S15D010MB-HM80520835-81WWW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

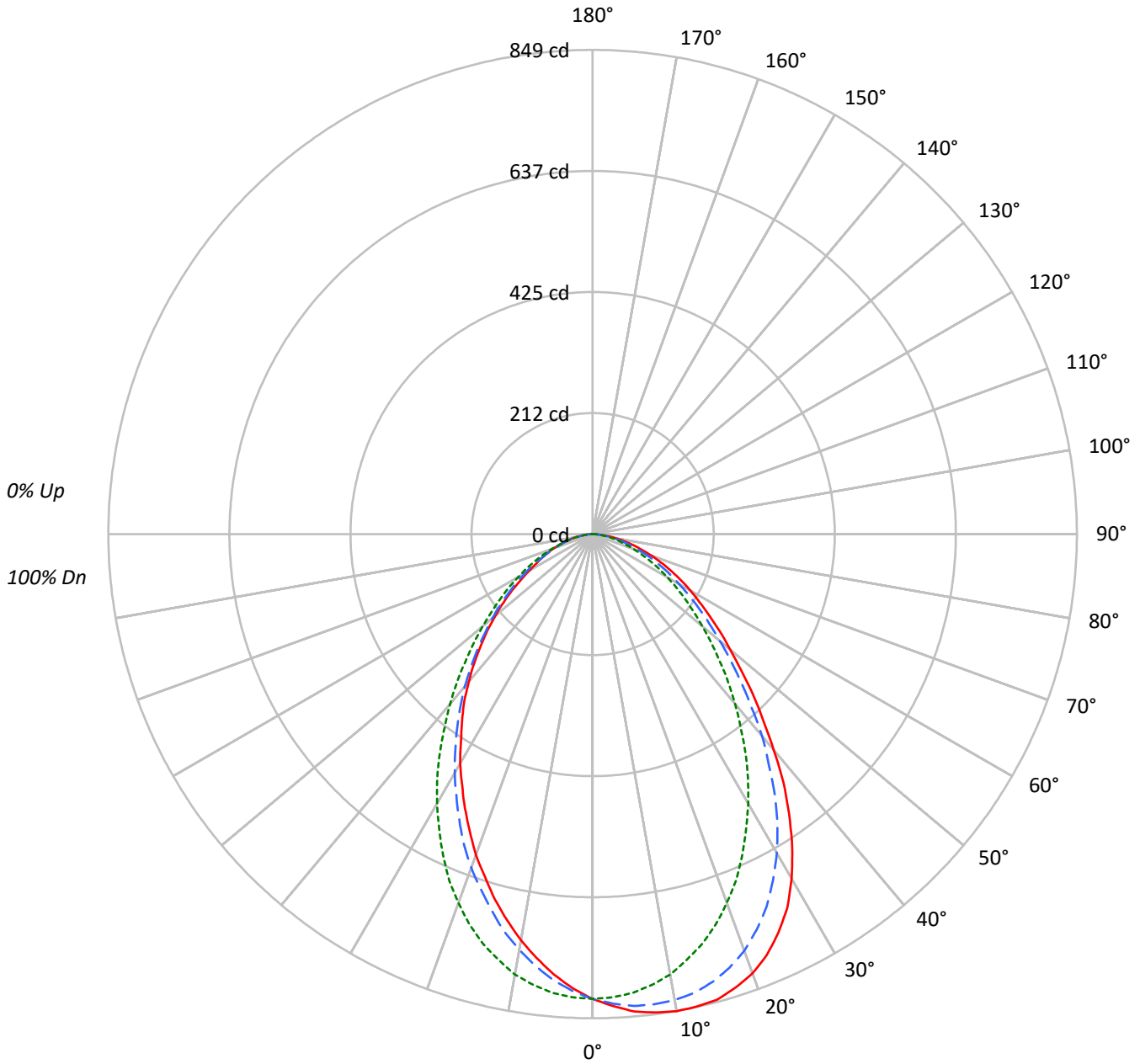
Lumens per Lamp: N/A  
Luminaire Lumens: 1504.3 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): 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: P583880  
CATALOG NUMBER: HCC8S15D010MB-HM80520835-81WWW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P583880

CATALOG NUMBER: HCC8S15D010MB-HM80520835-81WWW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	25135	25135	25135
5°	26017	24992	23999
10°	26596	24552	22645
15°	26973	23726	21150
20°	26892	22574	19633
25°	26226	21112	18023
30°	24846	19416	16539
35°	22609	17569	15028
40°	19853	15631	13578
45°	17313	13746	12106
50°	15068	12041	10664
55°	13435	10586	9279
60°	12211	9276	7913
65°	10974	8070	7180
70°	9764	6879	6482
75°	8566	5802	5528
80°	7281	4706	4901
85°	5449	3538	3927



TEST NUMBER: P583880  
 CATALOG NUMBER: HCC8S15D010MB-HM80520835-81WWW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.3	5.1
10°-20°	210.4	14.0
20°-30°	292.0	19.4
30°-40°	301.9	20.1
40°-50°	252.8	16.8
50°-60°	183.5	12.2
60°-70°	115.8	7.7
70°-80°	57.4	3.8
80°-90°	14.3	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°	578.7	38.5
0°-40°	880.6	58.5
0°-60°	1316.9	87.5
0°-90°	1504.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1504.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	815	815	815	815	815	
5°	840	831	807	785	775	80
15°	845	813	743	684	662	238
25°	771	721	620	553	530	353
35°	601	556	467	414	399	374
45°	397	368	315	284	278	307
55°	250	228	197	180	173	226
65°	150	132	111	97	98	150
75°	72	60	49	46	46	77
85°	15	12	10	11	11	19
90°	0	0	0	0	0	

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



TEST NUMBER: P583880

CATALOG NUMBER: HCC8S15D010MB-HM80520835-81WWW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1
2.5°	828.3	828.3	829.5	828.3	828.3	828.3	827.2	827.2	826.1	826.1	824.0
5°	840.5	838.3	840.5	838.3	838.3	838.3	837.2	834.9	833.9	831.7	830.6
7.5°	846.0	844.9	844.9	843.9	843.9	842.8	841.7	840.5	836.1	834.9	831.7
10°	849.4	848.3	848.3	847.1	844.9	844.9	842.8	841.7	836.1	833.9	829.5
12.5°	848.3	848.3	848.3	847.1	843.9	842.8	840.5	837.2	832.8	828.3	824.0
15°	844.9	844.9	842.8	841.7	838.3	836.1	834.9	829.5	825.1	819.5	812.9
17.5°	833.9	833.9	832.8	830.6	827.2	825.1	822.8	817.4	812.9	804.0	797.3
20°	819.5	818.4	817.4	814.0	810.7	809.5	806.3	798.6	793.0	786.4	777.5
22.5°	798.6	797.3	796.3	794.1	788.6	786.4	784.1	778.6	768.7	762.0	751.0
25°	770.8	770.8	768.7	765.3	759.8	757.6	754.2	748.8	739.9	730.0	721.1
27.5°	738.8	737.7	734.3	732.2	727.7	724.4	718.9	712.3	703.4	695.6	684.6
30°	697.8	697.8	695.6	692.3	686.8	684.6	680.2	672.4	663.6	653.6	645.9
32.5°	651.4	651.4	648.0	645.9	642.5	637.1	635.9	627.1	619.4	611.5	602.7
35°	600.6	601.7	599.5	595.0	589.5	589.5	587.3	579.5	570.7	563.0	556.3
37.5°	549.7	546.3	545.3	543.0	539.7	535.3	533.1	529.7	522.0	516.5	506.6
40°	493.2	494.4	492.1	490.0	488.9	485.5	484.4	478.9	473.3	466.7	462.2
42.5°	442.4	442.4	442.4	440.2	438.0	434.6	433.6	430.2	423.6	419.1	412.5
45°	397.0	393.7	393.7	392.6	391.5	389.3	386.0	383.8	379.3	376.1	368.2
47.5°	352.8	353.9	352.8	351.7	348.4	347.3	346.2	341.7	337.3	334.0	328.5
50°	314.1	316.3	314.1	314.1	311.9	310.8	308.6	305.2	302.0	296.4	290.9
52.5°	282.0	282.0	280.9	279.8	276.5	274.3	273.2	272.1	266.5	262.1	257.6
55°	249.9	251.0	251.0	247.7	246.7	244.4	243.3	240.0	237.7	231.1	227.9
57.5°	222.3	221.2	222.3	220.0	217.9	215.7	214.6	212.3	209.1	204.6	200.2
60°	198.0	195.8	195.8	194.6	192.4	191.4	189.1	185.8	182.4	178.1	174.7
62.5°	173.6	172.6	171.5	170.3	168.1	167.0	165.9	162.6	159.3	155.9	152.7
65°	150.4	150.4	149.3	147.1	146.0	144.8	143.8	141.6	137.1	135.0	131.6
67.5°	129.4	128.3	128.3	126.0	123.9	122.8	122.8	120.5	117.2	113.9	111.7
70°	108.3	109.5	108.3	107.2	105.1	105.1	102.9	101.7	97.4	96.2	92.9
72.5°	89.5	89.5	88.4	88.4	86.3	85.2	85.2	82.9	80.7	78.6	76.3
75°	71.9	71.9	71.9	70.7	69.6	67.5	67.5	66.4	64.1	61.9	59.8
77.5°	56.4	55.3	55.3	54.2	53.1	51.9	51.9	50.9	48.7	47.6	45.3
80°	41.0	39.8	39.8	39.8	37.6	38.7	37.6	36.5	35.4	34.3	33.1
82.5°	26.5	27.6	27.6	26.5	25.4	25.4	25.4	24.3	24.3	23.3	22.2
85°	15.4	15.4	15.4	15.4	14.3	14.3	14.3	13.3	13.3	13.3	12.2
87.5°	6.6	6.6	6.6	6.6	6.6	6.6	5.5	5.5	5.5	5.5	5.5
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: P583880

CATALOG NUMBER: HCC8S15D010MB-HM80520835-81WWW

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1
2.5°	824.0	821.7	820.6	819.5	819.5	818.4	817.4	815.1	815.1	812.9	811.8
5°	828.3	825.1	822.8	820.6	819.5	817.4	815.1	811.8	810.7	807.4	804.0
7.5°	829.5	824.0	821.7	817.4	815.1	812.9	808.4	805.2	800.7	797.3	793.0
10°	825.1	820.6	815.1	809.5	808.4	805.2	798.6	794.1	788.6	784.1	777.5
12.5°	818.4	811.8	806.3	799.6	796.3	793.0	786.4	779.8	771.9	764.2	757.6
15°	807.4	799.6	791.9	784.1	779.8	776.4	768.7	761.0	753.1	743.2	736.6
17.5°	790.7	781.9	774.2	764.2	759.8	756.5	746.5	737.7	727.7	717.8	711.2
20°	769.8	758.7	749.9	738.8	735.4	730.0	720.0	710.0	699.0	687.9	680.2
22.5°	742.0	731.1	721.1	710.0	704.4	699.0	689.0	676.8	665.8	657.0	649.3
25°	710.0	700.1	687.9	677.9	671.3	664.7	653.6	643.7	633.7	620.5	612.7
27.5°	674.7	662.5	653.6	640.3	633.7	629.3	617.1	603.8	595.0	582.9	573.9
30°	634.8	623.7	613.8	600.6	593.9	589.5	578.4	566.2	557.4	545.3	536.3
32.5°	592.7	580.6	568.5	559.6	551.9	547.4	535.3	527.5	516.5	506.6	496.6
35°	547.4	535.3	526.5	514.3	509.8	505.4	495.5	485.5	475.6	466.7	459.0
37.5°	498.7	490.0	480.0	471.2	467.8	463.4	451.3	442.4	434.6	425.8	419.1
40°	451.3	443.4	436.8	428.0	422.5	419.1	410.3	402.6	393.7	388.3	381.5
42.5°	408.1	399.2	392.6	386.0	380.4	377.2	369.3	363.9	357.3	351.7	343.9
45°	362.7	358.4	350.5	345.1	341.7	337.3	331.7	325.1	319.6	315.2	309.7
47.5°	322.9	318.5	312.9	306.3	304.1	300.8	295.3	290.9	286.4	282.0	276.5
50°	286.4	280.9	276.5	272.1	269.8	266.5	261.0	258.8	255.5	251.0	247.7
52.5°	253.3	248.8	244.4	238.8	237.7	235.6	232.2	227.9	224.5	222.3	220.0
55°	223.4	218.9	215.7	211.2	210.2	207.9	203.5	201.2	199.1	196.9	194.6
57.5°	196.9	192.4	188.0	185.8	183.6	181.4	180.3	176.9	174.7	173.6	171.5
60°	172.6	168.1	164.8	161.5	160.4	159.3	157.0	154.8	152.7	150.4	149.3
62.5°	149.3	144.8	142.7	140.5	138.2	138.2	136.0	133.9	131.6	130.5	128.3
65°	128.3	126.0	122.8	119.4	118.3	118.3	115.1	113.9	112.8	110.6	108.3
67.5°	108.3	106.2	102.9	101.7	100.6	99.5	98.4	96.2	94.0	92.9	90.7
70°	90.7	88.4	86.3	85.2	84.1	82.9	80.7	79.7	77.4	76.3	75.2
72.5°	73.0	71.9	69.6	68.6	67.5	66.4	65.3	64.1	61.9	60.9	59.8
75°	58.6	57.5	55.3	54.2	53.1	53.1	51.9	49.8	48.7	48.7	47.6
77.5°	44.2	43.1	42.1	41.0	39.8	39.8	38.7	37.6	36.5	36.5	35.4
80°	32.1	31.0	29.9	29.9	29.9	28.8	27.6	27.6	26.5	26.5	25.4
82.5°	21.0	21.0	19.9	19.9	19.9	18.8	18.8	17.7	17.7	17.7	17.7
85°	12.2	12.2	12.2	11.1	11.1	11.1	11.1	11.1	11.1	10.0	11.1
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.5	4.5	4.5
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: P583880

CATALOG NUMBER: HCC8S15D010MB-HM80520835-81WWW

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1
2.5°	810.7	809.5	807.4	807.4	805.2	805.2	804.0	802.9	801.8	800.7	799.6
5°	802.9	798.6	796.3	795.2	793.0	791.9	788.6	786.4	785.2	783.0	780.8
7.5°	788.6	784.1	779.8	778.6	777.5	773.0	769.8	766.4	764.2	762.0	759.8
10°	771.9	767.6	762.0	759.8	757.6	752.0	747.6	744.3	739.9	735.4	734.3
12.5°	752.0	745.4	738.8	736.6	733.2	727.7	723.2	717.8	714.4	708.9	707.8
15°	728.8	721.1	715.5	710.0	707.8	702.3	694.6	690.1	683.5	681.3	675.8
17.5°	701.2	693.5	685.6	683.5	680.2	672.4	664.7	659.1	652.5	649.3	645.9
20°	672.4	662.5	654.7	652.5	648.0	641.4	633.7	628.2	622.6	616.0	612.7
22.5°	639.3	628.2	621.5	616.0	614.9	607.2	598.3	593.9	589.5	583.9	579.5
25°	602.7	592.7	585.0	580.6	578.4	571.8	565.1	559.6	553.0	549.7	544.2
27.5°	565.1	558.5	548.5	544.2	540.8	535.3	527.5	524.2	517.5	513.2	509.8
30°	528.6	518.8	513.2	507.7	504.3	498.7	492.1	488.9	483.3	478.9	475.6
32.5°	488.9	482.2	474.4	472.2	467.8	462.2	457.9	452.4	447.9	443.4	442.4
35°	452.4	443.4	435.7	433.6	430.2	424.6	422.5	419.1	413.7	412.5	408.1
37.5°	412.5	408.1	399.2	396.0	394.9	390.4	386.0	383.8	380.4	377.2	376.1
40°	374.9	369.3	365.0	361.6	359.5	356.1	351.7	350.5	348.4	343.9	342.8
42.5°	339.6	334.0	329.6	328.5	325.1	321.9	319.6	316.3	315.2	314.1	311.9
45°	305.2	302.0	297.5	296.4	295.3	290.9	288.6	286.4	284.3	283.2	280.9
47.5°	274.3	271.0	267.6	266.5	264.4	263.2	259.9	258.8	255.5	254.4	253.3
50°	244.4	242.2	240.0	238.8	236.7	235.6	233.4	231.1	229.0	227.9	226.8
52.5°	217.9	215.7	213.4	212.3	211.2	209.1	206.8	204.6	203.5	202.4	201.2
55°	192.4	190.3	189.1	188.0	186.9	185.8	182.4	181.4	180.3	179.2	176.9
57.5°	169.2	167.0	164.8	164.8	163.6	162.6	160.4	158.1	158.1	155.9	153.8
60°	148.2	146.0	143.8	142.7	141.6	139.3	138.2	137.1	136.0	135.0	132.7
62.5°	126.0	125.0	122.8	122.8	120.5	119.4	118.3	117.2	116.2	113.9	112.8
65°	107.2	106.2	104.0	102.9	102.9	101.7	99.5	98.4	97.4	97.4	96.2
67.5°	89.5	88.4	86.3	85.2	85.2	84.1	82.9	82.9	81.8	80.7	81.8
70°	74.1	71.9	71.9	70.7	70.7	69.6	68.6	68.6	68.6	69.6	69.6
72.5°	58.6	57.5	56.4	56.4	56.4	56.4	55.3	55.3	56.4	57.5	57.5
75°	46.4	45.3	45.3	45.3	44.2	44.2	45.3	45.3	46.4	46.4	46.4
77.5°	34.3	34.3	34.3	34.3	34.3	34.3	35.4	35.4	36.5	36.5	36.5
80°	25.4	25.4	25.4	25.4	25.4	26.5	26.5	26.5	26.5	26.5	27.6
82.5°	17.7	17.7	17.7	17.7	17.7	17.7	17.7	18.8	18.8	18.8	18.8
85°	10.0	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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: P583880

CATALOG NUMBER: HCC8S15D010MB-HM80520835-81WWW

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1
2.5°	798.6	798.6	798.6	799.6	797.3	797.3	797.3	797.3
5°	779.8	778.6	777.5	778.6	776.4	776.4	775.3	775.3
7.5°	756.5	755.4	754.2	754.2	752.0	752.0	751.0	749.9
10°	731.1	728.8	730.0	727.7	726.6	725.5	724.4	723.2
12.5°	703.4	701.2	700.1	697.8	695.6	694.6	695.6	693.5
15°	673.5	670.2	669.1	666.8	664.7	663.6	663.6	662.5
17.5°	640.3	638.2	637.1	634.8	633.7	631.5	630.5	629.3
20°	609.4	603.8	604.9	602.7	601.7	597.2	597.2	598.3
22.5°	575.1	571.8	569.6	567.3	566.2	564.1	564.1	563.0
25°	540.8	537.6	536.3	534.2	533.1	530.8	529.7	529.7
27.5°	507.7	503.2	503.2	501.0	498.7	497.7	496.6	495.5
30°	472.2	469.0	467.8	467.8	466.7	466.7	463.4	464.5
32.5°	439.1	436.8	435.7	433.6	433.6	432.5	432.5	429.1
35°	405.8	402.6	403.7	401.5	400.3	399.2	400.3	399.2
37.5°	373.8	371.6	371.6	369.3	369.3	368.2	367.2	369.3
40°	341.7	340.7	339.6	338.4	339.6	338.4	336.2	337.3
42.5°	309.7	309.7	308.6	308.6	307.5	307.5	307.5	307.5
45°	280.9	279.8	279.8	278.7	278.7	278.7	278.7	277.6
47.5°	252.2	251.0	251.0	251.0	249.9	249.9	248.8	249.9
50°	224.5	224.5	223.4	223.4	224.5	223.4	222.3	222.3
52.5°	199.1	199.1	198.0	198.0	196.9	195.8	196.9	196.9
55°	175.8	174.7	173.6	173.6	172.6	171.5	171.5	172.6
57.5°	153.8	152.7	151.5	151.5	149.3	148.2	148.2	148.2
60°	132.7	130.5	130.5	129.4	129.4	128.3	128.3	128.3
62.5°	112.8	111.7	111.7	111.7	111.7	110.6	110.6	110.6
65°	96.2	96.2	96.2	97.4	97.4	98.4	98.4	98.4
67.5°	82.9	84.1	84.1	84.1	85.2	85.2	85.2	84.1
70°	70.7	70.7	70.7	71.9	71.9	71.9	71.9	71.9
72.5°	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
75°	46.4	47.6	47.6	47.6	46.4	47.6	47.6	46.4
77.5°	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
80°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
82.5°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
85°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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)