

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: P583845

Luminaire Tested: **HCC8W15D010SL-HM80520827-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W15D010SL-HM80520827-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

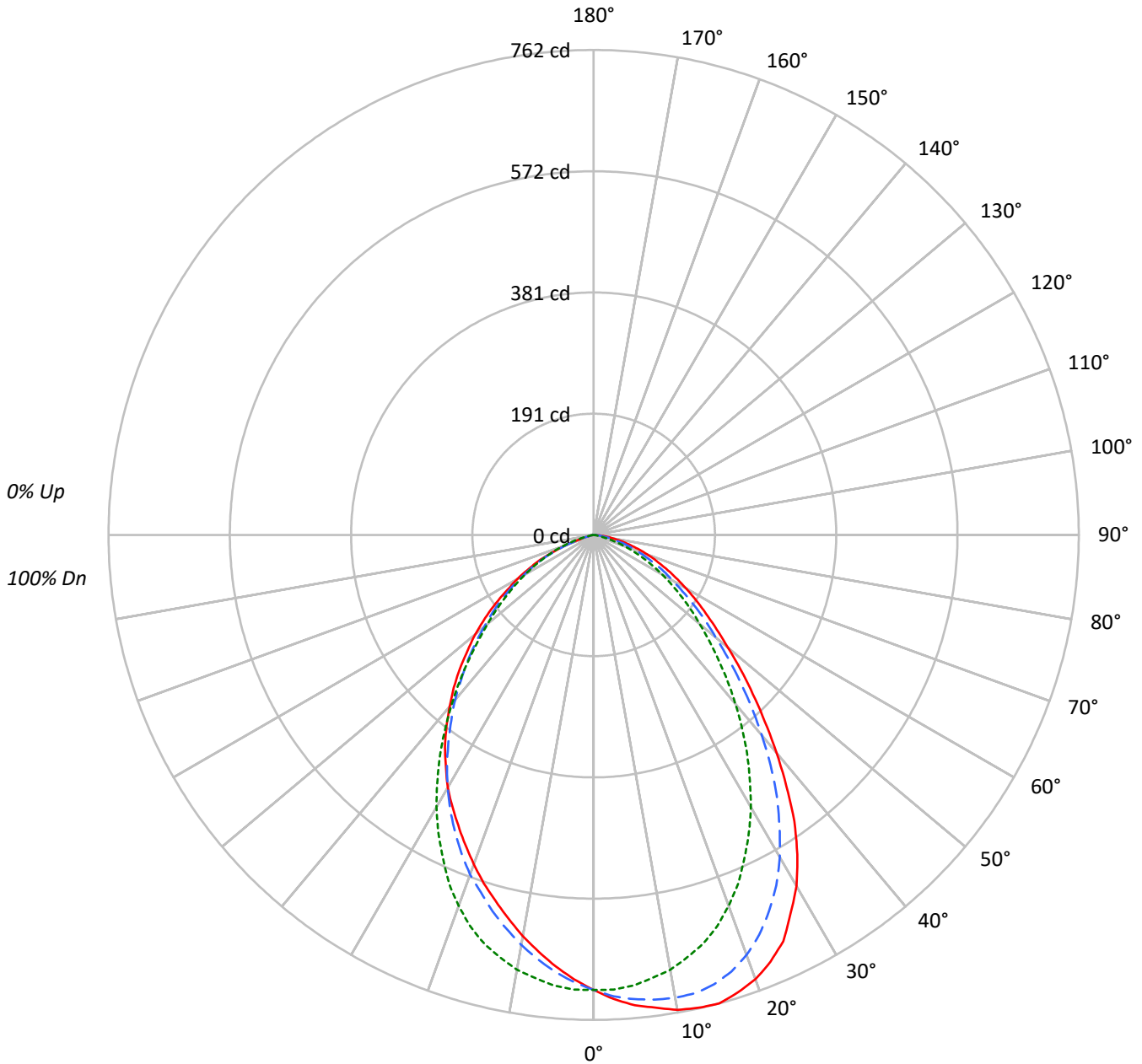
Lumens per Lamp: N/A
Luminaire Lumens: 1332.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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: P583845
CATALOG NUMBER: HCC8W15D010SL-HM80520827-81WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P583845

CATALOG NUMBER: HCC8W15D010SL-HM80520827-81WWBB

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	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			
5	82	70	63	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	58	53	49	47			
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43			
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39			
9	62	50	43	37	61	50	42	37	48	42	37	47	41	37	46	41	37	35			
10	59	47	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22048	22048	22048
5°	22962	22002	21074
10°	23728	21721	20046
15°	24333	21223	19008
20°	24379	20345	18062
25°	23967	19057	17128
30°	22685	17583	16326
35°	20682	15814	15332
40°	17985	13940	14153
45°	15429	12071	12961
50°	13178	10410	11643
55°	11553	8967	10113
60°	10287	7647	8505
65°	9128	6246	6786
70°	8096	4625	3859
75°	6743	2431	1144
80°	5310	746	195
85°	3786	389	0



TEST NUMBER: P583845
 CATALOG NUMBER: HCC8W15D010SL-HM80520827-81WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	5.1
10°-20°	188.9	14.2
20°-30°	267.3	20.1
30°-40°	279.7	21.0
40°-50°	233.2	17.5
50°-60°	165.4	12.4
60°-70°	95.3	7.2
70°-80°	30.7	2.3
80°-90°	4.2	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°	523.5	39.3
0°-40°	803.2	60.3
0°-60°	1201.8	90.2
0°-90°	1332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1332.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	715	715	715	715	715	
5°	742	732	711	689	681	71
15°	762	731	665	612	595	214
25°	704	652	560	515	503	321
35°	549	501	420	398	407	341
45°	354	325	277	280	297	274
55°	215	192	167	175	188	194
65°	125	105	86	86	93	125
75°	57	42	20	10	10	61
85°	11	5	1	0	0	13
90°	0	0	0	0	0	

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



TEST NUMBER: P583845

CATALOG NUMBER: HCC8W15D010SL-HM80520827-81WWBB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0
2.5°	730.1	729.0	727.9	729.0	727.9	729.0	727.9	727.9	726.9	725.8	725.8
5°	741.8	740.7	740.7	740.7	739.6	738.5	738.5	737.6	735.4	734.3	732.2
7.5°	749.3	750.4	750.4	750.4	748.2	748.2	746.1	744.0	741.8	739.6	736.5
10°	757.8	757.8	756.7	755.7	753.6	752.5	751.4	749.3	746.1	741.8	738.5
12.5°	761.1	761.1	760.0	757.8	756.7	755.7	754.7	751.4	747.1	741.8	737.6
15°	762.2	760.0	758.9	757.8	755.7	752.5	752.5	748.2	742.9	736.5	731.1
17.5°	753.6	754.7	752.5	750.4	747.1	745.1	741.8	738.5	732.2	724.7	719.4
20°	742.9	741.8	740.7	737.6	733.2	732.2	729.0	723.6	718.3	709.7	702.3
22.5°	725.8	724.7	722.5	720.5	716.1	714.0	710.8	704.4	697.0	688.4	679.9
25°	704.4	702.3	699.0	694.8	691.5	689.4	685.2	678.8	670.2	660.6	652.0
27.5°	670.2	673.4	671.3	664.8	661.7	657.3	656.2	647.7	640.2	630.7	621.1
30°	637.1	637.1	633.8	630.7	625.3	622.1	617.8	611.4	603.9	592.1	584.7
32.5°	595.4	594.3	590.0	589.0	584.7	578.3	577.2	568.6	561.2	552.6	543.0
35°	549.4	547.3	543.0	539.8	537.7	534.4	531.3	523.8	516.2	507.7	501.3
37.5°	497.1	497.1	496.0	490.7	488.5	486.3	483.1	475.6	471.4	462.8	456.5
40°	446.8	445.7	442.5	441.4	439.3	436.1	433.9	429.7	423.3	416.8	410.4
42.5°	397.7	398.7	394.4	395.5	391.3	389.1	388.0	381.6	378.4	372.0	366.7
45°	353.8	352.7	350.7	349.6	347.4	345.2	343.1	339.9	334.5	328.1	325.0
47.5°	313.2	309.9	309.9	309.0	307.9	303.5	302.5	299.3	296.1	289.7	285.3
50°	274.7	274.7	274.7	273.7	270.4	269.3	267.3	264.0	260.8	256.5	250.2
52.5°	243.7	243.7	243.7	242.7	238.3	237.3	236.2	232.0	227.6	224.5	220.2
55°	214.9	215.9	214.9	212.7	209.5	209.5	206.3	204.1	199.9	196.7	192.4
57.5°	190.3	190.3	188.1	187.0	185.0	183.9	181.7	179.5	174.2	171.0	165.7
60°	166.8	165.7	165.7	163.5	161.3	159.3	158.2	155.0	152.8	147.5	143.3
62.5°	145.3	145.3	143.3	143.3	138.9	138.9	137.9	134.7	131.5	126.2	124.0
65°	125.1	125.1	124.0	122.9	119.7	118.7	117.6	114.4	111.2	108.0	104.7
67.5°	106.9	106.9	104.7	103.6	101.6	100.5	98.3	96.2	93.0	89.8	86.6
70°	89.8	88.7	87.6	86.6	84.5	83.4	81.2	79.0	75.9	73.7	70.5
72.5°	72.7	72.7	71.6	69.5	68.4	67.4	66.3	64.1	61.0	57.7	55.6
75°	56.6	56.6	56.6	54.5	52.4	51.3	51.3	49.2	47.0	43.9	41.7
77.5°	43.9	42.8	41.7	41.7	39.5	38.4	37.4	36.4	33.1	32.1	29.9
80°	29.9	31.0	29.9	28.9	27.8	26.8	26.8	24.6	23.5	21.3	19.3
82.5°	20.4	19.3	19.3	18.2	18.2	17.1	17.1	14.9	13.9	12.8	11.8
85°	10.7	10.7	9.6	9.6	9.6	8.6	8.6	7.5	7.5	6.4	5.3
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.2	2.2	2.2
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: P583845

CATALOG NUMBER: HCC8W15D010SL-HM80520827-81WWBB

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0
2.5°	724.7	722.5	721.6	721.6	720.5	719.4	718.3	717.2	715.0	715.0	713.0
5°	730.1	727.9	726.9	723.6	721.6	721.6	717.2	716.1	713.0	710.8	708.7
7.5°	734.3	730.1	726.9	723.6	721.6	719.4	715.0	710.8	706.5	702.3	700.1
10°	734.3	730.1	724.7	719.4	717.2	715.0	709.7	703.4	697.9	693.7	688.4
12.5°	732.2	725.8	719.4	715.0	710.8	707.6	701.2	694.8	688.4	679.9	675.5
15°	725.8	717.2	710.8	703.4	700.1	694.8	689.4	679.9	672.4	664.8	659.5
17.5°	713.0	702.3	694.8	687.3	681.9	678.8	670.2	661.7	653.1	644.6	638.2
20°	693.7	684.1	675.5	665.9	661.7	657.3	646.7	638.2	629.6	620.0	613.6
22.5°	670.2	660.6	648.8	641.3	634.9	629.6	620.0	610.3	601.8	593.2	584.7
25°	641.3	631.7	621.1	609.2	605.0	599.6	589.0	579.4	569.7	560.1	552.6
27.5°	610.3	597.6	589.0	576.1	571.9	566.5	554.8	544.1	535.5	528.0	519.5
30°	573.0	563.3	551.5	539.8	535.5	530.2	520.6	510.9	502.4	493.8	485.3
32.5°	532.2	522.7	510.9	502.4	496.0	491.6	482.1	473.6	465.0	456.5	449.0
35°	489.6	478.9	470.3	461.8	456.5	451.0	441.4	433.9	427.5	420.1	412.6
37.5°	445.7	438.3	429.7	420.1	414.8	410.4	403.0	394.4	389.1	382.7	377.3
40°	403.0	394.4	386.9	378.4	374.2	370.9	363.4	357.0	351.6	346.3	343.1
42.5°	359.1	351.6	344.1	338.8	335.6	332.5	327.0	319.6	316.4	311.0	307.9
45°	318.5	312.1	306.8	299.3	297.2	295.0	288.6	283.3	280.0	276.8	274.7
47.5°	280.0	275.8	269.3	265.1	261.8	259.8	255.5	251.2	248.0	245.8	243.7
50°	246.9	241.6	237.3	233.0	230.9	227.6	223.4	221.2	219.1	217.0	217.0
52.5°	215.9	210.5	206.3	203.0	201.0	198.8	195.6	194.5	192.4	192.4	191.4
55°	187.0	183.9	179.5	175.3	174.2	173.2	171.0	168.9	167.9	166.8	167.9
57.5°	162.4	159.3	155.0	151.8	150.7	149.7	148.6	146.4	145.3	145.3	145.3
60°	140.0	136.8	133.6	130.4	130.4	128.2	127.2	126.2	125.1	124.0	124.0
62.5°	119.7	116.5	113.3	111.2	110.1	109.1	106.9	105.8	104.7	104.7	103.6
65°	101.6	97.2	96.2	93.0	91.9	90.9	89.8	87.6	86.6	85.6	84.5
67.5°	83.4	81.2	78.1	75.9	74.8	73.7	72.7	70.5	69.5	68.4	66.3
70°	67.4	65.2	63.0	61.0	59.9	58.8	56.6	54.5	53.5	51.3	48.1
72.5°	52.4	50.2	48.1	45.9	44.9	43.9	41.7	39.5	37.4	35.3	33.1
75°	39.5	37.4	34.2	32.1	31.0	31.0	27.8	25.7	23.5	20.4	18.2
77.5°	27.8	24.6	23.5	21.3	20.4	18.2	16.0	13.9	11.8	10.7	8.6
80°	18.2	16.0	13.9	12.8	11.8	10.7	9.6	7.5	5.3	4.2	3.3
82.5°	10.7	9.6	8.6	7.5	6.4	5.3	4.2	4.2	3.3	2.2	1.1
85°	5.3	4.2	3.3	3.3	2.2	2.2	2.2	1.1	1.1	1.1	1.1
87.5°	2.2	1.1	1.1	1.1	1.1	1.1	1.1	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: P583845

CATALOG NUMBER: HCC8W15D010SL-HM80520827-81WWBB

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0
2.5°	711.9	710.8	709.7	708.7	708.7	706.5	706.5	705.4	703.4	702.3	702.3
5°	705.4	702.3	700.1	699.0	697.9	694.8	693.7	691.5	689.4	687.3	686.2
7.5°	695.9	690.5	688.4	687.3	684.1	680.8	678.8	675.5	672.4	669.1	668.1
10°	684.1	678.8	673.4	671.3	668.1	665.9	661.7	657.3	654.2	650.9	647.7
12.5°	669.1	662.8	657.3	655.3	652.0	647.7	641.3	639.3	633.8	631.7	627.4
15°	652.0	644.6	639.3	636.0	632.7	626.4	622.1	617.8	612.5	610.3	606.1
17.5°	630.7	622.1	616.7	613.6	611.4	606.1	599.6	594.3	589.0	586.8	583.6
20°	605.0	599.6	592.1	589.0	586.8	580.4	573.9	571.9	567.6	563.3	560.1
22.5°	576.1	570.8	563.3	560.1	559.0	553.7	548.4	545.1	541.9	538.8	535.5
25°	546.2	539.8	533.3	531.3	529.1	524.8	520.6	518.4	515.3	513.1	510.9
27.5°	514.2	507.7	502.4	499.1	497.1	493.8	491.6	489.6	487.4	485.3	484.2
30°	480.0	473.6	469.2	467.1	465.0	463.9	460.7	459.6	458.5	456.5	457.5
32.5°	445.7	440.4	436.1	433.0	433.0	430.8	429.7	429.7	428.6	428.6	428.6
35°	408.4	405.1	401.9	400.8	399.8	398.7	397.7	398.7	397.7	398.7	399.8
37.5°	374.2	370.9	368.7	367.6	366.7	367.6	366.7	366.7	367.6	369.8	370.9
40°	338.8	336.7	334.5	335.6	334.5	334.5	334.5	337.8	338.8	339.9	341.0
42.5°	305.7	303.5	302.5	302.5	303.5	302.5	304.6	305.7	307.9	311.0	313.2
45°	273.7	272.6	272.6	273.7	272.6	274.7	274.7	276.8	280.0	282.2	284.4
47.5°	243.7	243.7	243.7	244.7	244.7	245.8	248.0	249.1	251.2	253.3	255.5
50°	215.9	217.0	218.1	218.1	218.1	220.2	222.3	223.4	224.5	225.6	228.7
52.5°	191.4	192.4	192.4	193.5	194.5	195.6	196.7	198.8	199.9	202.1	203.0
55°	167.9	167.9	169.9	171.0	171.0	171.0	173.2	173.2	175.3	176.4	178.5
57.5°	145.3	146.4	146.4	147.5	147.5	148.6	149.7	150.7	151.8	152.8	153.9
60°	124.0	124.0	124.0	125.1	126.2	127.2	126.2	128.2	128.2	130.4	131.5
62.5°	103.6	104.7	104.7	104.7	104.7	104.7	104.7	105.8	106.9	108.0	109.1
65°	84.5	84.5	84.5	83.4	84.5	83.4	84.5	85.6	85.6	86.6	87.6
67.5°	65.2	65.2	63.0	63.0	64.1	64.1	64.1	64.1	63.0	65.2	65.2
70°	47.0	45.9	44.9	43.9	43.9	42.8	42.8	41.7	41.7	41.7	41.7
72.5°	31.0	28.9	26.8	25.7	24.6	24.6	22.4	21.3	22.4	22.4	22.4
75°	16.0	13.9	12.8	11.8	10.7	10.7	9.6	9.6	9.6	9.6	9.6
77.5°	6.4	5.3	4.2	4.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3
80°	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	0.0	0.0	1.1	0.0	1.1	1.1	1.1	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: P583845

CATALOG NUMBER: HCC8W15D010SL-HM80520827-81WWBB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0
2.5°	701.2	701.2	700.1	701.2	699.0	700.1	699.0	699.0
5°	685.2	683.0	683.0	683.0	681.9	681.9	680.8	680.8
7.5°	665.9	664.8	663.8	662.8	661.7	660.6	660.6	660.6
10°	646.7	644.6	644.6	643.5	641.3	640.2	640.2	640.2
12.5°	624.2	623.1	622.1	622.1	617.8	618.9	617.8	617.8
15°	602.9	601.8	601.8	598.5	596.5	596.5	596.5	595.4
17.5°	580.4	579.4	578.3	576.1	573.9	573.9	573.0	573.9
20°	557.0	555.9	553.7	553.7	552.6	551.5	549.4	550.4
22.5°	533.3	531.3	530.2	530.2	529.1	529.1	526.9	526.9
25°	508.8	507.7	506.7	507.7	505.6	505.6	503.4	503.4
27.5°	483.1	482.1	482.1	482.1	481.0	482.1	481.0	481.0
30°	457.5	457.5	456.5	456.5	457.5	456.5	457.5	458.5
32.5°	429.7	429.7	430.8	430.8	431.9	431.9	431.9	431.9
35°	400.8	403.0	403.0	404.0	405.1	406.2	406.2	407.3
37.5°	374.2	375.2	376.2	377.3	379.5	379.5	379.5	379.5
40°	345.2	346.3	348.5	347.4	351.6	352.7	351.6	351.6
42.5°	315.3	317.5	318.5	320.7	321.7	323.9	325.0	325.0
45°	287.5	288.6	290.8	292.9	293.9	297.2	297.2	297.2
47.5°	258.7	260.8	261.8	264.0	265.1	268.2	269.3	268.2
50°	230.9	233.0	235.1	235.1	238.3	239.4	241.6	242.7
52.5°	204.1	205.2	207.4	208.5	210.5	212.7	213.8	214.9
55°	178.5	179.5	181.7	181.7	185.0	185.9	188.1	188.1
57.5°	155.0	156.0	158.2	157.1	159.3	161.3	161.3	160.4
60°	132.6	132.6	132.6	134.7	135.8	136.8	137.9	137.9
62.5°	109.1	111.2	112.2	112.2	113.3	114.4	114.4	113.3
65°	87.6	89.8	90.9	90.9	91.9	91.9	91.9	93.0
67.5°	66.3	66.3	66.3	67.4	66.3	66.3	66.3	66.3
70°	41.7	41.7	41.7	41.7	40.6	41.7	41.7	42.8
72.5°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
75°	9.6	9.6	9.6	10.7	9.6	9.6	9.6	9.6
77.5°	4.2	3.3	4.2	4.2	3.3	3.3	3.3	3.3
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	0.0	1.1	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)