

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: P583846

Luminaire Tested: **HCC8W15D010BZ-HM80520827-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583846
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: HCC8W15D010BZ-HM80520827-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

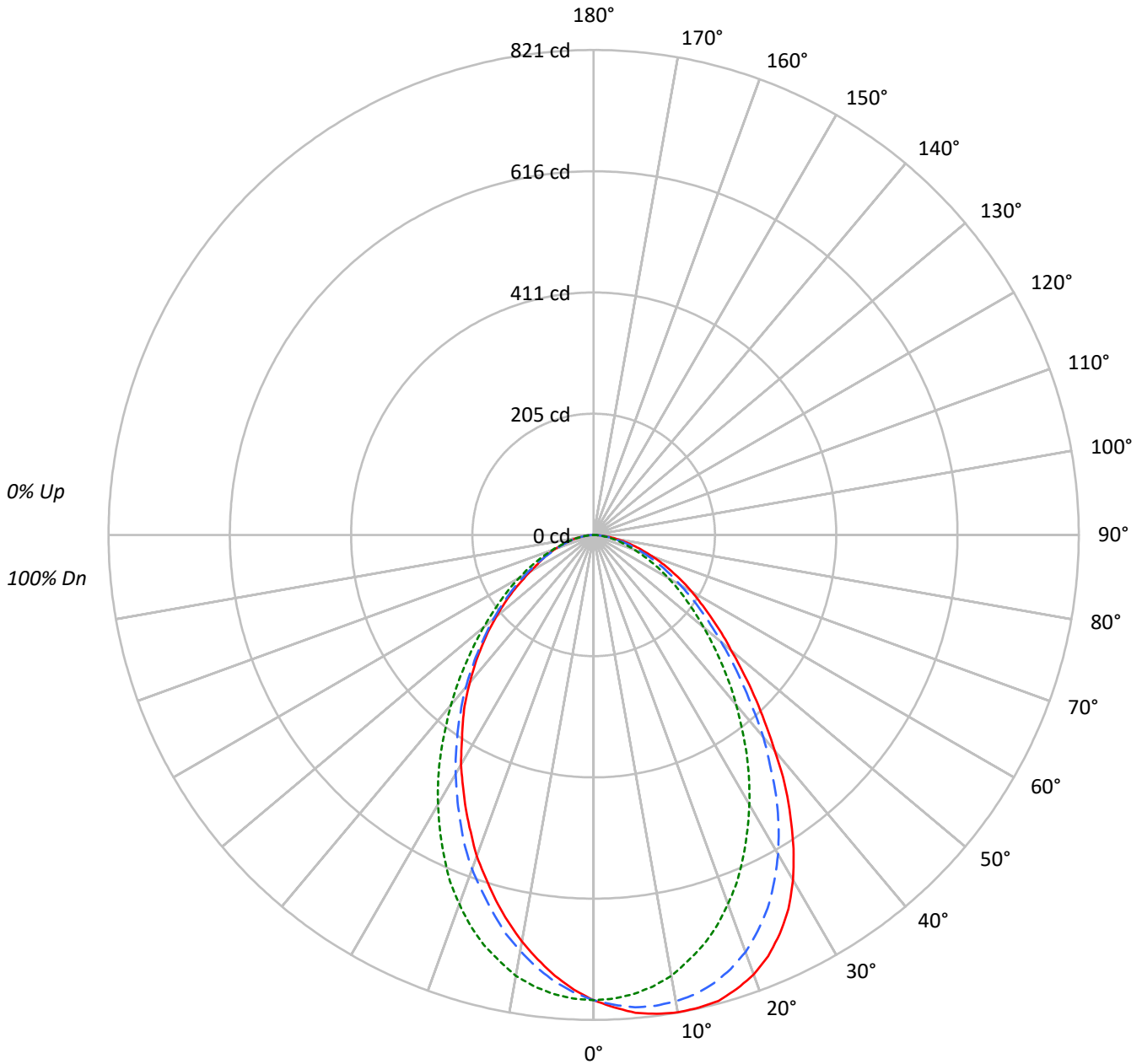
Lumens per Lamp: N/A
Luminaire Lumens: 1453.9 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): NR
Input Current (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: P583846
CATALOG NUMBER: HCC8W15D010BZ-HM80520827-81WWW

Luminous Intensity Polar Plot





TEST NUMBER: P583846

CATALOG NUMBER: HCC8W15D010BZ-HM80520827-81WWW

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	24290	24290	24290
5°	25144	24150	23194
10°	25701	23728	21887
15°	26069	22931	20438
20°	25990	21816	18977
25°	25351	20401	17420
30°	24013	18761	15987
35°	21849	16978	14523
40°	19189	15103	13123
45°	16733	13283	11696
50°	14560	11643	10309
55°	12989	10231	8967
60°	11804	8961	7647
65°	10602	7800	6939
70°	9440	6645	6266
75°	8280	5600	5349
80°	7014	4564	4759
85°	5272	3397	3786



TEST NUMBER: P583846

CATALOG NUMBER: HCC8W15D010BZ-HM80520827-81WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	5.1
10°-20°	203.3	14.0
20°-30°	282.2	19.4
30°-40°	291.8	20.1
40°-50°	244.3	16.8
50°-60°	177.4	12.2
60°-70°	111.9	7.7
70°-80°	55.4	3.8
80°-90°	13.8	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°	559.3	38.5
0°-40°	851.1	58.5
0°-60°	1272.7	87.5
0°-90°	1453.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1453.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	788	788	788	788	788	
5°	812	803	780	759	749	78
15°	817	786	718	661	640	230
25°	745	697	600	534	512	341
35°	580	538	451	400	386	361
45°	384	356	305	275	268	297
55°	242	220	190	174	167	218
65°	145	127	107	94	95	145
75°	70	58	47	45	45	75
85°	15	12	10	11	11	18
90°	0	0	0	0	0	

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



TEST NUMBER: P583846

CATALOG NUMBER: HCC8W15D010BZ-HM80520827-81WWW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7
2.5°	800.6	800.6	801.7	800.6	800.6	800.6	799.5	799.5	798.4	798.4	796.3
5°	812.3	810.2	812.3	810.2	810.2	810.2	809.2	807.0	805.9	803.9	802.8
7.5°	817.7	816.6	816.6	815.5	815.5	814.5	813.4	812.3	808.1	807.0	803.9
10°	820.8	819.9	819.9	818.8	816.6	816.6	814.5	813.4	808.1	805.9	801.7
12.5°	819.9	819.9	819.9	818.8	815.5	814.5	812.3	809.2	804.8	800.6	796.3
15°	816.6	816.6	814.5	813.4	810.2	808.1	807.0	801.7	797.3	792.0	785.7
17.5°	805.9	805.9	804.8	802.8	799.5	797.3	795.3	789.9	785.7	777.1	770.7
20°	792.0	791.0	789.9	786.7	783.5	782.4	779.3	771.7	766.4	760.0	751.4
22.5°	771.7	770.7	769.6	767.5	762.2	760.0	757.8	752.5	742.9	736.5	725.8
25°	745.1	745.1	742.9	739.6	734.3	732.2	729.0	723.6	715.0	705.4	696.9
27.5°	714.0	713.0	709.7	707.6	703.4	700.1	694.8	688.4	679.9	672.3	661.7
30°	674.4	674.4	672.3	669.1	663.8	661.7	657.3	649.9	641.3	631.7	624.2
32.5°	629.6	629.6	626.4	624.2	621.1	615.6	614.6	606.1	598.5	591.1	582.5
35°	580.4	581.4	579.4	575.0	569.7	569.7	567.6	560.1	551.5	544.1	537.7
37.5°	531.3	528.0	526.9	524.8	521.6	517.3	515.3	512.0	504.5	499.1	489.6
40°	476.7	477.8	475.6	473.6	472.5	469.2	468.1	462.8	457.5	451.0	446.8
42.5°	427.5	427.5	427.5	425.4	423.3	420.1	419.0	415.8	409.3	405.1	398.7
45°	383.7	380.5	380.5	379.5	378.4	376.2	373.1	370.9	366.7	363.4	356.0
47.5°	341.0	342.1	341.0	339.9	336.7	335.6	334.5	330.3	326.0	322.8	317.5
50°	303.5	305.7	303.5	303.5	301.4	300.4	298.2	295.0	291.9	286.4	281.1
52.5°	272.6	272.6	271.5	270.4	267.3	265.1	264.0	262.9	257.6	253.3	249.1
55°	241.6	242.7	242.7	239.4	238.3	236.2	235.1	232.0	229.8	223.4	220.2
57.5°	214.9	213.8	214.9	212.7	210.5	208.5	207.4	205.2	202.1	197.7	193.5
60°	191.4	189.2	189.2	188.1	185.9	185.0	182.8	179.5	176.4	172.1	168.9
62.5°	167.9	166.8	165.7	164.6	162.4	161.3	160.4	157.1	153.9	150.7	147.5
65°	145.3	145.3	144.4	142.2	141.1	140.0	138.9	136.8	132.6	130.4	127.2
67.5°	125.1	124.0	124.0	121.8	119.7	118.7	118.7	116.5	113.3	110.1	108.0
70°	104.7	105.8	104.7	103.6	101.6	101.6	99.4	98.3	94.1	93.0	89.8
72.5°	86.6	86.6	85.6	85.6	83.4	82.3	82.3	80.1	78.1	75.9	73.7
75°	69.5	69.5	69.5	68.4	67.4	65.2	65.2	64.1	61.9	59.9	57.7
77.5°	54.5	53.5	53.5	52.4	51.3	50.2	50.2	49.2	47.0	45.9	43.9
80°	39.5	38.4	38.4	38.4	36.4	37.4	36.4	35.3	34.2	33.1	32.1
82.5°	25.7	26.8	26.8	25.7	24.6	24.6	24.6	23.5	23.5	22.4	21.3
85°	14.9	14.9	14.9	14.9	13.9	13.9	13.9	12.8	12.8	12.8	11.8
87.5°	6.4	6.4	6.4	6.4	6.4	6.4	5.3	5.3	5.3	5.3	5.3
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: P583846

CATALOG NUMBER: HCC8W15D010BZ-HM80520827-81WWW

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7
2.5°	796.3	794.2	793.1	792.0	792.0	791.0	789.9	787.7	787.7	785.7	784.6
5°	800.6	797.3	795.3	793.1	792.0	789.9	787.7	784.6	783.5	780.2	777.1
7.5°	801.7	796.3	794.2	789.9	787.7	785.7	781.3	778.2	773.9	770.7	766.4
10°	797.3	793.1	787.7	782.4	781.3	778.2	771.7	767.5	762.2	757.8	751.4
12.5°	791.0	784.6	779.3	772.8	769.6	766.4	760.0	753.6	746.1	738.5	732.2
15°	780.2	772.8	765.3	757.8	753.6	750.4	742.9	735.4	727.9	718.3	711.9
17.5°	764.2	755.7	748.2	738.5	734.3	731.1	721.6	713.0	703.4	693.7	687.3
20°	744.0	733.2	724.7	714.0	710.8	705.4	695.9	686.2	675.5	664.8	657.3
22.5°	717.2	706.5	696.9	686.2	680.8	675.5	665.9	654.2	643.5	634.9	627.4
25°	686.2	676.6	664.8	655.3	648.8	642.4	631.7	622.1	612.5	599.6	592.1
27.5°	652.0	640.2	631.7	618.9	612.5	608.2	596.5	583.6	575.0	563.3	554.8
30°	613.6	602.9	593.2	580.4	573.9	569.7	559.0	547.3	538.8	526.9	518.4
32.5°	573.0	561.2	549.4	540.8	533.3	529.1	517.3	509.8	499.1	489.6	480.0
35°	529.1	517.3	508.8	497.1	492.7	488.5	478.9	469.2	459.6	451.0	443.6
37.5°	482.1	473.6	463.9	455.4	452.1	447.9	436.1	427.5	420.1	411.5	405.1
40°	436.1	428.6	422.2	413.7	408.3	405.1	396.6	389.1	380.5	375.2	368.7
42.5°	394.4	385.8	379.5	373.1	367.6	364.5	357.0	351.6	345.2	339.9	332.5
45°	350.5	346.3	338.8	333.5	330.3	326.0	320.7	314.3	309.0	304.6	299.3
47.5°	312.1	307.9	302.5	296.1	293.9	290.8	285.3	281.1	276.8	272.6	267.3
50°	276.8	271.5	267.3	262.9	260.8	257.6	252.2	250.2	246.9	242.7	239.4
52.5°	244.7	240.5	236.2	230.9	229.8	227.6	224.5	220.2	217.0	214.9	212.7
55°	215.9	211.6	208.5	204.1	203.0	201.0	196.7	194.5	192.4	190.3	188.1
57.5°	190.3	185.9	181.7	179.5	177.4	175.3	174.2	171.0	168.9	167.9	165.7
60°	166.8	162.4	159.3	156.0	155.0	153.9	151.8	149.7	147.5	145.3	144.4
62.5°	144.4	140.0	137.9	135.8	133.6	133.6	131.5	129.3	127.2	126.2	124.0
65°	124.0	121.8	118.7	115.4	114.4	114.4	111.2	110.1	109.1	106.9	104.7
67.5°	104.7	102.7	99.4	98.3	97.2	96.2	95.1	93.0	90.9	89.8	87.6
70°	87.6	85.6	83.4	82.3	81.2	80.1	78.1	77.0	74.8	73.7	72.7
72.5°	70.5	69.5	67.4	66.3	65.2	64.1	63.0	61.9	59.9	58.8	57.7
75°	56.6	55.6	53.5	52.4	51.3	51.3	50.2	48.1	47.0	47.0	45.9
77.5°	42.8	41.7	40.6	39.5	38.4	38.4	37.4	36.4	35.3	35.3	34.2
80°	31.0	29.9	28.9	28.9	28.9	27.8	26.8	26.8	25.7	25.7	24.6
82.5°	20.4	20.4	19.3	19.3	19.3	18.2	18.2	17.1	17.1	17.1	17.1
85°	11.8	11.8	11.8	10.7	10.7	10.7	10.7	10.7	10.7	9.6	10.7
87.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	4.2	4.2	4.2
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: P583846

CATALOG NUMBER: HCC8W15D010BZ-HM80520827-81WWW

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7
2.5°	783.5	782.4	780.2	780.2	778.2	778.2	777.1	776.0	774.9	773.9	772.8
5°	776.0	771.7	769.6	768.5	766.4	765.3	762.2	760.0	758.9	756.7	754.6
7.5°	762.2	757.8	753.6	752.5	751.4	747.1	744.0	740.7	738.5	736.5	734.3
10°	746.1	741.8	736.5	734.3	732.2	726.9	722.5	719.4	715.0	710.8	709.7
12.5°	726.9	720.5	714.0	711.9	708.7	703.4	699.0	693.7	690.5	685.2	684.1
15°	704.4	696.9	691.5	686.2	684.1	678.8	671.3	667.0	660.6	658.4	653.1
17.5°	677.7	670.2	662.8	660.6	657.3	649.9	642.4	637.1	630.7	627.4	624.2
20°	649.9	640.2	632.7	630.7	626.4	620.0	612.5	607.1	601.8	595.4	592.1
22.5°	617.8	607.1	600.7	595.4	594.3	586.8	578.3	573.9	569.7	564.4	560.1
25°	582.5	573.0	565.4	561.2	559.0	552.6	546.2	540.8	534.4	531.3	525.9
27.5°	546.2	539.8	530.2	525.9	522.7	517.3	509.8	506.7	500.2	496.0	492.7
30°	510.9	501.3	496.0	490.7	487.4	482.1	475.6	472.5	467.1	462.8	459.6
32.5°	472.5	466.0	458.5	456.5	452.1	446.8	442.5	437.2	433.0	428.6	427.5
35°	437.2	428.6	421.1	419.0	415.8	410.4	408.3	405.1	399.8	398.7	394.4
37.5°	398.7	394.4	385.8	382.7	381.6	377.3	373.1	370.9	367.6	364.5	363.4
40°	362.3	357.0	352.7	349.6	347.4	344.1	339.9	338.8	336.7	332.5	331.4
42.5°	328.1	322.8	318.5	317.5	314.3	311.0	309.0	305.7	304.6	303.5	301.4
45°	295.0	291.9	287.5	286.4	285.3	281.1	279.0	276.8	274.7	273.7	271.5
47.5°	265.1	261.8	258.7	257.6	255.5	254.4	251.2	250.2	246.9	245.8	244.7
50°	236.2	234.1	232.0	230.9	228.7	227.6	225.6	223.4	221.2	220.2	219.1
52.5°	210.5	208.5	206.3	205.2	204.1	202.1	199.9	197.7	196.7	195.6	194.5
55°	185.9	183.9	182.8	181.7	180.6	179.5	176.4	175.3	174.2	173.2	171.0
57.5°	163.5	161.3	159.3	159.3	158.2	157.1	155.0	152.8	152.8	150.7	148.6
60°	143.3	141.1	138.9	137.9	136.8	134.7	133.6	132.6	131.5	130.4	128.2
62.5°	121.8	120.7	118.7	118.7	116.5	115.4	114.4	113.3	112.2	110.1	109.1
65°	103.6	102.7	100.5	99.4	99.4	98.3	96.2	95.1	94.1	94.1	93.0
67.5°	86.6	85.6	83.4	82.3	82.3	81.2	80.1	80.1	79.0	78.1	79.0
70°	71.6	69.5	69.5	68.4	68.4	67.4	66.3	66.3	66.3	67.4	67.4
72.5°	56.6	55.6	54.5	54.5	54.5	54.5	53.5	53.5	54.5	55.6	55.6
75°	44.9	43.9	43.9	43.9	42.8	42.8	43.9	43.9	44.9	44.9	44.9
77.5°	33.1	33.1	33.1	33.1	33.1	33.1	34.2	34.2	35.3	35.3	35.3
80°	24.6	24.6	24.6	24.6	24.6	25.7	25.7	25.7	25.7	25.7	26.8
82.5°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	18.2	18.2	18.2	18.2
85°	9.6	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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: P583846

CATALOG NUMBER: HCC8W15D010BZ-HM80520827-81WWW

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7
2.5°	771.7	771.7	771.7	772.8	770.7	770.7	770.7	770.7
5°	753.6	752.5	751.4	752.5	750.4	750.4	749.3	749.3
7.5°	731.1	730.0	729.0	729.0	726.9	726.9	725.8	724.7
10°	706.5	704.4	705.4	703.4	702.3	701.2	700.1	699.0
12.5°	679.9	677.7	676.6	674.4	672.3	671.3	672.3	670.2
15°	650.9	647.7	646.7	644.6	642.4	641.3	641.3	640.2
17.5°	618.9	616.7	615.6	613.6	612.5	610.3	609.2	608.2
20°	589.0	583.6	584.7	582.5	581.4	577.2	577.2	578.3
22.5°	555.9	552.6	550.4	548.4	547.3	545.1	545.1	544.1
25°	522.7	519.5	518.4	516.2	515.3	513.1	512.0	512.0
27.5°	490.7	486.3	486.3	484.2	482.1	481.0	480.0	478.9
30°	456.5	453.2	452.1	452.1	451.0	451.0	447.9	449.0
32.5°	424.4	422.2	421.1	419.0	419.0	417.9	417.9	414.8
35°	392.2	389.1	390.2	388.0	386.9	385.8	386.9	385.8
37.5°	361.3	359.1	359.1	357.0	357.0	356.0	354.9	357.0
40°	330.3	329.2	328.1	327.0	328.1	327.0	325.0	326.0
42.5°	299.3	299.3	298.2	298.2	297.2	297.2	297.2	297.2
45°	271.5	270.4	270.4	269.3	269.3	269.3	269.3	268.2
47.5°	243.7	242.7	242.7	242.7	241.6	241.6	240.5	241.6
50°	217.0	217.0	215.9	215.9	217.0	215.9	214.9	214.9
52.5°	192.4	192.4	191.4	191.4	190.3	189.2	190.3	190.3
55°	169.9	168.9	167.9	167.9	166.8	165.7	165.7	166.8
57.5°	148.6	147.5	146.4	146.4	144.4	143.3	143.3	143.3
60°	128.2	126.2	126.2	125.1	125.1	124.0	124.0	124.0
62.5°	109.1	108.0	108.0	108.0	108.0	106.9	106.9	106.9
65°	93.0	93.0	93.0	94.1	94.1	95.1	95.1	95.1
67.5°	80.1	81.2	81.2	81.2	82.3	82.3	82.3	81.2
70°	68.4	68.4	68.4	69.5	69.5	69.5	69.5	69.5
72.5°	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
75°	44.9	45.9	45.9	45.9	44.9	45.9	45.9	44.9
77.5°	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
80°	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8
82.5°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
85°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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)