

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: P583965

Luminaire Tested: **HCC8W15D010MB-HM80520940-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583965
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: HCC8W15D010MB-HM80520940-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

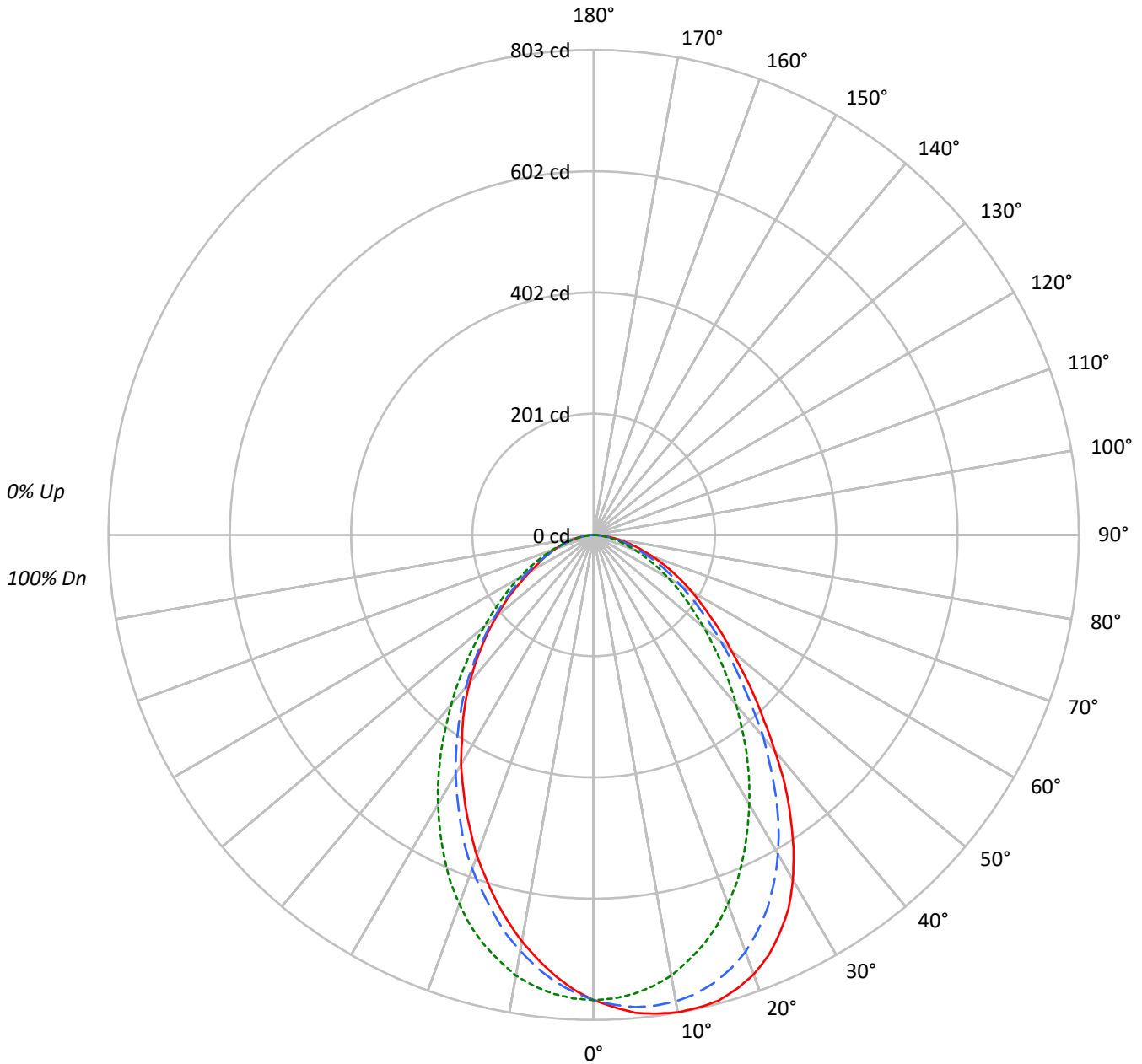
Lumens per Lamp: N/A
Luminaire Lumens: 1421.5 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P583965
CATALOG NUMBER: HCC8W15D010MB-HM80520940-81WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P583965

CATALOG NUMBER: HCC8W15D010MB-HM80520940-81WWW

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								
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°	23750	23750	23750
5°	24587	23615	22677
10°	25134	23202	21402
15°	25488	22420	19984
20°	25415	21333	18554
25°	24783	19952	17032
30°	23483	18348	15631
35°	21367	16601	14203
40°	18762	14765	12829
45°	16362	12991	11439
50°	14238	11384	10074
55°	12698	10005	8763
60°	11539	8770	7475
65°	10376	7625	6786
70°	9232	6500	6131
75°	8102	5481	5230
80°	6872	4457	4635
85°	5166	3326	3715



TEST NUMBER: P583965
 CATALOG NUMBER: HCC8W15D010MB-HM80520940-81WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	5.1
10°-20°	198.8	14.0
20°-30°	275.9	19.4
30°-40°	285.3	20.1
40°-50°	238.9	16.8
50°-60°	173.4	12.2
60°-70°	109.4	7.7
70°-80°	54.2	3.8
80°-90°	13.5	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°	546.9	38.5
0°-40°	832.2	58.5
0°-60°	1244.4	87.5
0°-90°	1421.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1421.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	770	770	770	770	770	
5°	794	785	763	742	733	76
15°	798	768	702	646	626	225
25°	728	681	586	523	501	334
35°	568	526	441	391	377	353
45°	375	348	298	269	262	290
55°	236	215	186	170	163	213
65°	142	124	104	92	93	142
75°	68	56	46	44	44	73
85°	15	11	9	10	10	18
90°	0	0	0	0	0	

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



TEST NUMBER: P583965

CATALOG NUMBER: HCC8W15D010MB-HM80520940-81WWW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2
2.5°	782.8	782.8	783.9	782.8	782.8	782.8	781.8	781.8	780.7	780.7	778.7
5°	794.3	792.2	794.3	792.2	792.2	792.2	791.2	789.0	788.1	785.9	784.9
7.5°	799.5	798.4	798.4	797.5	797.5	796.4	795.3	794.3	790.1	789.0	785.9
10°	802.7	801.6	801.6	800.6	798.4	798.4	796.4	795.3	790.1	788.1	783.9
12.5°	801.6	801.6	801.6	800.6	797.5	796.4	794.3	791.2	787.0	782.8	778.7
15°	798.4	798.4	796.4	795.3	792.2	790.1	789.0	783.9	779.6	774.5	768.2
17.5°	788.1	788.1	787.0	784.9	781.8	779.6	777.6	772.4	768.2	759.8	753.5
20°	774.5	773.4	772.4	769.3	766.0	765.1	761.9	754.6	749.4	743.1	734.7
22.5°	754.6	753.5	752.5	750.4	745.2	743.1	741.0	735.8	726.4	720.1	709.6
25°	728.4	728.4	726.4	723.2	718.1	715.9	712.8	707.6	699.1	689.7	681.4
27.5°	698.2	697.1	694.0	691.9	687.7	684.6	679.4	673.1	664.7	657.3	647.0
30°	659.5	659.5	657.3	654.2	649.0	647.0	642.7	635.4	627.1	617.7	610.3
32.5°	615.6	615.6	612.5	610.3	607.2	602.0	600.9	592.6	585.3	577.9	569.6
35°	567.6	568.5	566.5	562.3	557.1	557.1	555.0	547.7	539.2	532.0	525.7
37.5°	519.5	516.3	515.3	513.2	510.1	505.9	503.8	500.6	493.3	488.0	478.6
40°	466.1	467.2	465.1	463.0	462.0	458.9	457.8	452.6	447.3	441.0	436.8
42.5°	418.0	418.0	418.0	416.0	413.9	410.8	409.7	406.6	400.3	396.1	389.8
45°	375.2	372.1	372.1	371.0	369.9	367.9	364.8	362.7	358.5	355.4	348.0
47.5°	333.4	334.4	333.4	332.3	329.2	328.1	327.2	322.9	318.7	315.6	310.4
50°	296.8	299.0	296.8	296.8	294.7	293.7	291.6	288.5	285.3	280.0	274.9
52.5°	266.5	266.5	265.5	264.4	261.2	259.2	258.1	257.1	251.8	247.7	243.5
55°	236.2	237.3	237.3	234.1	233.0	231.0	229.9	226.8	224.7	218.5	215.3
57.5°	210.0	209.1	210.0	208.0	205.9	203.8	202.8	200.6	197.5	193.4	189.2
60°	187.1	185.0	185.0	183.9	181.8	180.8	178.7	175.6	172.4	168.2	165.1
62.5°	164.1	163.0	162.0	161.0	158.8	157.9	156.8	153.6	150.5	147.4	144.2
65°	142.2	142.2	141.1	139.1	138.0	136.9	135.9	133.8	129.5	127.5	124.4
67.5°	122.3	121.2	121.2	119.2	117.0	116.0	116.0	113.9	110.7	107.6	105.6
70°	102.4	103.5	102.4	101.3	99.3	99.3	97.2	96.2	91.9	91.0	87.8
72.5°	84.7	84.7	83.6	83.6	81.6	80.5	80.5	78.3	76.3	74.2	72.1
75°	68.0	68.0	68.0	66.9	65.8	63.7	63.7	62.7	60.6	58.6	56.4
77.5°	53.3	52.3	52.3	51.2	50.1	49.2	49.2	48.1	46.0	44.9	42.9
80°	38.7	37.6	37.6	37.6	35.5	36.6	35.5	34.5	33.5	32.4	31.3
82.5°	25.1	26.1	26.1	25.1	24.0	24.0	24.0	23.0	23.0	21.9	20.8
85°	14.6	14.6	14.6	14.6	13.6	13.6	13.6	12.5	12.5	12.5	11.4
87.5°	6.3	6.3	6.3	6.3	6.3	6.3	5.2	5.2	5.2	5.2	5.2
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: P583965

CATALOG NUMBER: HCC8W15D010MB-HM80520940-81WWW

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2
2.5°	778.7	776.5	775.5	774.5	774.5	773.4	772.4	770.2	770.2	768.2	767.1
5°	782.8	779.6	777.6	775.5	774.5	772.4	770.2	767.1	766.0	762.9	759.8
7.5°	783.9	778.7	776.5	772.4	770.2	768.2	764.0	760.8	756.6	753.5	749.4
10°	779.6	775.5	770.2	765.1	764.0	760.8	754.6	750.4	745.2	741.0	734.7
12.5°	773.4	767.1	761.9	755.7	752.5	749.4	743.1	736.9	729.5	722.2	715.9
15°	762.9	755.7	748.3	741.0	736.9	733.7	726.4	719.0	711.7	702.3	696.0
17.5°	747.2	738.9	731.6	722.2	718.1	714.9	705.4	697.1	687.7	678.3	672.0
20°	727.5	717.0	708.5	698.2	695.0	689.7	680.3	670.9	660.5	650.1	642.7
22.5°	701.3	690.8	681.4	670.9	665.8	660.5	651.1	639.6	629.1	620.8	613.5
25°	670.9	661.5	650.1	640.7	634.4	628.2	617.7	608.3	598.9	586.4	579.0
27.5°	637.6	626.0	617.7	605.2	598.9	594.7	583.2	570.7	562.3	550.8	542.4
30°	599.8	589.5	580.1	567.6	561.3	557.1	546.6	535.1	526.7	515.3	506.9
32.5°	560.2	548.6	537.2	528.9	521.5	517.3	505.9	498.5	488.0	478.6	469.2
35°	517.3	505.9	497.4	486.0	481.8	477.7	468.3	458.9	449.5	441.0	433.7
37.5°	471.4	463.0	453.6	445.2	442.1	437.9	426.4	418.0	410.8	402.3	396.1
40°	426.4	419.1	412.8	404.5	399.2	396.1	387.8	380.4	372.1	366.8	360.5
42.5°	385.6	377.3	371.0	364.8	359.6	356.4	349.1	343.9	337.5	332.3	325.0
45°	342.8	338.6	331.3	326.1	322.9	318.7	313.5	307.3	302.1	297.9	292.7
47.5°	305.2	301.0	295.8	289.4	287.4	284.3	279.1	274.9	270.6	266.5	261.2
50°	270.6	265.5	261.2	257.1	255.0	251.8	246.7	244.6	241.5	237.3	234.1
52.5°	239.3	235.1	231.0	225.7	224.7	222.6	219.4	215.3	212.2	210.0	208.0
55°	211.1	206.9	203.8	199.7	198.6	196.5	192.3	190.3	188.1	186.1	183.9
57.5°	186.1	181.8	177.6	175.6	173.5	171.4	170.4	167.3	165.1	164.1	162.0
60°	163.0	158.8	155.7	152.6	151.6	150.5	148.5	146.3	144.2	142.2	141.1
62.5°	141.1	136.9	134.8	132.8	130.6	130.6	128.6	126.4	124.4	123.3	121.2
65°	121.2	119.2	116.0	112.9	111.8	111.8	108.7	107.6	106.6	104.5	102.4
67.5°	102.4	100.4	97.2	96.2	95.1	94.1	93.0	91.0	88.8	87.8	85.7
70°	85.7	83.6	81.6	80.5	79.4	78.3	76.3	75.2	73.1	72.1	71.1
72.5°	68.9	68.0	65.8	64.8	63.7	62.7	61.7	60.6	58.6	57.5	56.4
75°	55.4	54.3	52.3	51.2	50.1	50.1	49.2	47.0	46.0	46.0	44.9
77.5°	41.8	40.7	39.8	38.7	37.6	37.6	36.6	35.5	34.5	34.5	33.5
80°	30.4	29.3	28.2	28.2	28.2	27.2	26.1	26.1	25.1	25.1	24.0
82.5°	19.9	19.9	18.8	18.8	18.8	17.7	17.7	16.7	16.7	16.7	16.7
85°	11.4	11.4	11.4	10.5	10.5	10.5	10.5	10.5	10.5	9.4	10.5
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	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

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



TEST NUMBER: P583965

CATALOG NUMBER: HCC8W15D010MB-HM80520940-81WWW

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2
2.5°	766.0	765.1	762.9	762.9	760.8	760.8	759.8	758.8	757.7	756.6	755.7
5°	758.8	754.6	752.5	751.4	749.4	748.3	745.2	743.1	742.0	740.0	737.8
7.5°	745.2	741.0	736.9	735.8	734.7	730.6	727.5	724.3	722.2	720.1	718.1
10°	729.5	725.3	720.1	718.1	715.9	710.7	706.5	703.4	699.1	695.0	694.0
12.5°	710.7	704.4	698.2	696.0	692.9	687.7	683.5	678.3	675.2	670.0	668.9
15°	688.8	681.4	676.2	670.9	668.9	663.7	656.4	652.1	645.9	643.8	638.5
17.5°	662.6	655.3	647.9	645.9	642.7	635.4	628.2	622.9	616.6	613.5	610.3
20°	635.4	626.0	618.8	616.6	612.5	606.1	598.9	593.6	588.4	582.1	579.0
22.5°	604.1	593.6	587.3	582.1	581.1	573.8	565.4	561.3	557.1	551.8	547.7
25°	569.6	560.2	552.9	548.6	546.6	540.3	534.1	528.9	522.6	519.5	514.2
27.5°	534.1	527.8	518.4	514.2	511.0	505.9	498.5	495.4	489.1	484.9	481.8
30°	499.6	490.2	484.9	479.7	476.6	471.4	465.1	462.0	456.7	452.6	449.5
32.5°	462.0	455.7	448.4	446.2	442.1	436.8	432.7	427.4	423.3	419.1	418.0
35°	427.4	419.1	411.7	409.7	406.6	401.4	399.2	396.1	390.9	389.8	385.6
37.5°	389.8	385.6	377.3	374.2	373.1	369.0	364.8	362.7	359.6	356.4	355.4
40°	354.3	349.1	344.9	341.7	339.7	336.6	332.3	331.3	329.2	325.0	324.0
42.5°	320.9	315.6	311.5	310.4	307.3	304.1	302.1	299.0	297.9	296.8	294.7
45°	288.5	285.3	281.1	280.0	279.1	274.9	272.8	270.6	268.6	267.5	265.5
47.5°	259.2	256.1	252.9	251.8	249.8	248.7	245.6	244.6	241.5	240.4	239.3
50°	231.0	228.8	226.8	225.7	223.6	222.6	220.5	218.5	216.3	215.3	214.2
52.5°	205.9	203.8	201.7	200.6	199.7	197.5	195.5	193.4	192.3	191.2	190.3
55°	181.8	179.8	178.7	177.6	176.7	175.6	172.4	171.4	170.4	169.3	167.3
57.5°	159.9	157.9	155.7	155.7	154.7	153.6	151.6	149.4	149.4	147.4	145.3
60°	140.0	138.0	135.9	134.8	133.8	131.7	130.6	129.5	128.6	127.5	125.4
62.5°	119.2	118.1	116.0	116.0	113.9	112.9	111.8	110.7	109.8	107.6	106.6
65°	101.3	100.4	98.2	97.2	97.2	96.2	94.1	93.0	91.9	91.9	91.0
67.5°	84.7	83.6	81.6	80.5	80.5	79.4	78.3	78.3	77.4	76.3	77.4
70°	70.0	68.0	68.0	66.9	66.9	65.8	64.8	64.8	64.8	65.8	65.8
72.5°	55.4	54.3	53.3	53.3	53.3	53.3	52.3	52.3	53.3	54.3	54.3
75°	43.9	42.9	42.9	42.9	41.8	41.8	42.9	42.9	43.9	43.9	43.9
77.5°	32.4	32.4	32.4	32.4	32.4	32.4	33.5	33.5	34.5	34.5	34.5
80°	24.0	24.0	24.0	24.0	24.0	25.1	25.1	25.1	25.1	25.1	26.1
82.5°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	17.7	17.7	17.7	17.7
85°	9.4	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
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

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



TEST NUMBER: P583965

CATALOG NUMBER: HCC8W15D010MB-HM80520940-81WWW

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	770.2	770.2	770.2	770.2	770.2	770.2	770.2	770.2
2.5°	754.6	754.6	754.6	755.7	753.5	753.5	753.5	753.5
5°	736.9	735.8	734.7	735.8	733.7	733.7	732.6	732.6
7.5°	714.9	713.8	712.8	712.8	710.7	710.7	709.6	708.5
10°	690.8	688.8	689.7	687.7	686.6	685.6	684.6	683.5
12.5°	664.7	662.6	661.5	659.5	657.3	656.4	657.3	655.3
15°	636.5	633.3	632.3	630.2	628.2	627.1	627.1	626.0
17.5°	605.2	603.0	602.0	599.8	598.9	596.7	595.8	594.7
20°	575.9	570.7	571.7	569.6	568.5	564.4	564.4	565.4
22.5°	543.5	540.3	538.3	536.1	535.1	533.0	533.0	532.0
25°	511.0	507.9	506.9	504.8	503.8	501.6	500.6	500.6
27.5°	479.7	475.5	475.5	473.4	471.4	470.3	469.2	468.3
30°	446.2	443.1	442.1	442.1	441.0	441.0	437.9	439.0
32.5°	414.9	412.8	411.7	409.7	409.7	408.6	408.6	405.5
35°	383.6	380.4	381.5	379.3	378.4	377.3	378.4	377.3
37.5°	353.3	351.1	351.1	349.1	349.1	348.0	347.0	349.1
40°	322.9	321.9	320.9	319.8	320.9	319.8	317.8	318.7
42.5°	292.7	292.7	291.6	291.6	290.5	290.5	290.5	290.5
45°	265.5	264.4	264.4	263.4	263.4	263.4	263.4	262.3
47.5°	238.3	237.3	237.3	237.3	236.2	236.2	235.1	236.2
50°	212.2	212.2	211.1	211.1	212.2	211.1	210.0	210.0
52.5°	188.1	188.1	187.1	187.1	186.1	185.0	186.1	186.1
55°	166.2	165.1	164.1	164.1	163.0	162.0	162.0	163.0
57.5°	145.3	144.2	143.2	143.2	141.1	140.0	140.0	140.0
60°	125.4	123.3	123.3	122.3	122.3	121.2	121.2	121.2
62.5°	106.6	105.6	105.6	105.6	105.6	104.5	104.5	104.5
65°	91.0	91.0	91.0	91.9	91.9	93.0	93.0	93.0
67.5°	78.3	79.4	79.4	79.4	80.5	80.5	80.5	79.4
70°	66.9	66.9	66.9	68.0	68.0	68.0	68.0	68.0
72.5°	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
75°	43.9	44.9	44.9	44.9	43.9	44.9	44.9	43.9
77.5°	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
80°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
82.5°	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7
85°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
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)