

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: P583931

Luminaire Tested: **HCC8S15D010MB-HM80520930-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583931
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-HM80520930-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

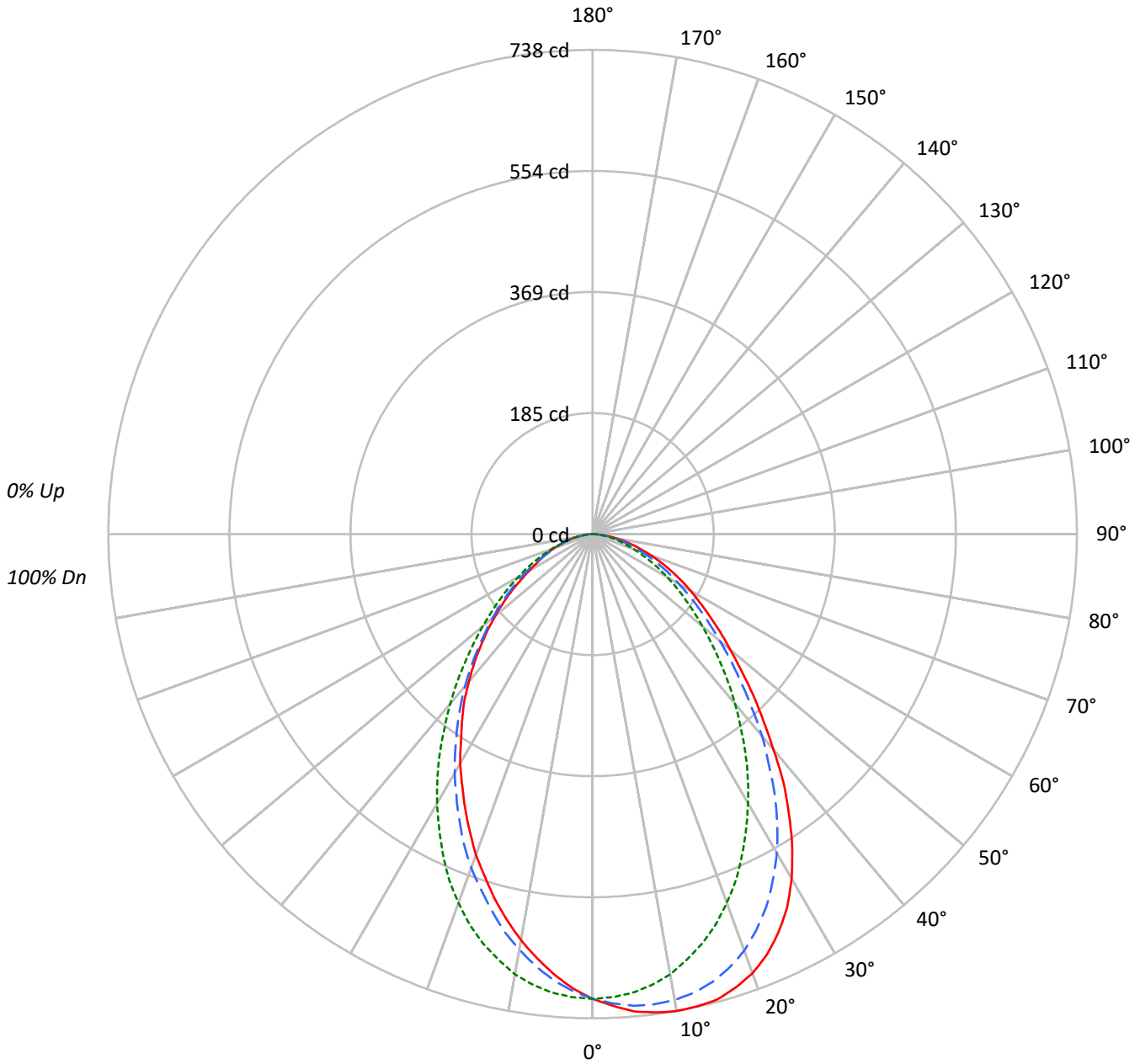
Lumens per Lamp: N/A
Luminaire Lumens: 1307.3 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): NR
Input Current (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: P583931
CATALOG NUMBER: HCC8S15D010MB-HM80520930-81WWW

Luminous Intensity Polar Plot





TEST NUMBER: P583931

CATALOG NUMBER: HCC8S15D010MB-HM80520930-81WWW

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	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°	21841	21841	21841
5°	22612	21720	20854
10°	23115	21336	19680
15°	23442	20620	18379
20°	23371	19617	17064
25°	22793	18346	15665
30°	21595	16870	14374
35°	19647	15268	13059
40°	17253	13582	11802
45°	15045	11945	10519
50°	13092	10468	9268
55°	11682	9199	8059
60°	10614	8061	6876
65°	9537	7019	6246
70°	8493	5978	5626
75°	7434	5040	4813
80°	6304	4084	4262
85°	4776	3078	3397



TEST NUMBER: P583931
 CATALOG NUMBER: HCC8S15D010MB-HM80520930-81WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	5.1
10°-20°	182.8	14.0
20°-30°	253.8	19.4
30°-40°	262.4	20.1
40°-50°	219.7	16.8
50°-60°	159.5	12.2
60°-70°	100.6	7.7
70°-80°	49.8	3.8
80°-90°	12.4	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°	502.9	38.5
0°-40°	765.3	58.5
0°-60°	1144.4	87.5
0°-90°	1307.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1307.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	708	708	708	708	708	
5°	730	722	702	682	674	70
15°	734	706	646	594	576	207
25°	670	627	539	481	460	307
35°	522	483	406	360	347	325
45°	345	320	274	247	241	267
55°	217	198	171	157	150	196
65°	131	114	96	85	86	130
75°	62	52	42	40	40	67
85°	14	11	9	10	10	16
90°	0	0	0	0	0	

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



TEST NUMBER: P583931

CATALOG NUMBER: HCC8S15D010MB-HM80520930-81WWW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3
2.5°	719.9	719.9	720.8	719.9	719.9	719.9	718.9	718.9	717.9	717.9	716.0
5°	730.5	728.5	730.5	728.5	728.5	728.5	727.6	725.7	724.7	722.8	721.8
7.5°	735.3	734.3	734.3	733.4	733.4	732.4	731.4	730.5	726.6	725.7	722.8
10°	738.2	737.2	737.2	736.3	734.3	734.3	732.4	731.4	726.6	724.7	720.8
12.5°	737.2	737.2	737.2	736.3	733.4	732.4	730.5	727.6	723.7	719.9	716.0
15°	734.3	734.3	732.4	731.4	728.5	726.6	725.7	720.8	717.0	712.2	706.4
17.5°	724.7	724.7	723.7	721.8	718.9	717.0	715.0	710.2	706.4	698.8	693.0
20°	712.2	711.2	710.2	707.3	704.6	703.6	700.7	694.0	689.1	683.4	675.6
22.5°	694.0	693.0	692.0	690.1	685.3	683.4	681.4	676.6	667.9	662.3	652.6
25°	669.9	669.9	667.9	665.0	660.3	658.4	655.5	650.7	643.0	634.3	626.6
27.5°	642.0	641.1	638.2	636.2	632.4	629.5	624.7	619.0	611.3	604.5	594.9
30°	606.5	606.5	604.5	601.7	596.8	594.9	591.1	584.3	576.7	568.0	561.3
32.5°	566.1	566.1	563.2	561.3	558.4	553.6	552.6	544.9	538.3	531.5	523.8
35°	521.9	522.8	520.9	517.1	512.2	512.2	510.3	503.6	496.0	489.2	483.4
37.5°	477.7	474.8	473.8	471.9	469.0	465.1	463.2	460.4	453.7	448.9	440.2
40°	428.6	429.6	427.7	425.7	424.8	422.0	421.0	416.2	411.4	405.6	401.7
42.5°	384.4	384.4	384.4	382.5	380.7	377.8	376.8	373.9	368.1	364.3	358.5
45°	345.0	342.2	342.2	341.3	340.3	338.4	335.5	333.5	329.7	326.8	320.0
47.5°	306.6	307.5	306.6	305.6	302.7	301.9	300.9	297.0	293.2	290.3	285.5
50°	272.9	274.9	272.9	272.9	271.0	270.0	268.1	265.2	262.3	257.6	252.8
52.5°	245.1	245.1	244.1	243.2	240.3	238.3	237.4	236.4	231.6	227.7	223.9
55°	217.3	218.2	218.2	215.3	214.4	212.4	211.5	208.6	206.7	200.9	198.0
57.5°	193.2	192.2	193.2	191.2	189.3	187.4	186.4	184.5	181.6	177.9	174.0
60°	172.1	170.1	170.1	169.2	167.3	166.3	164.4	161.5	158.6	154.7	151.8
62.5°	150.9	149.9	148.9	148.0	146.0	145.1	144.1	141.2	138.5	135.6	132.7
65°	130.7	130.7	129.8	127.9	126.9	125.9	125.0	123.0	119.2	117.2	114.4
67.5°	112.4	111.5	111.5	109.5	107.6	106.6	106.6	104.7	101.8	99.1	97.1
70°	94.2	95.2	94.2	93.3	91.3	91.3	89.4	88.4	84.6	83.6	80.7
72.5°	77.8	77.8	76.9	76.9	75.0	74.0	74.0	72.1	70.1	68.2	66.3
75°	62.4	62.4	62.4	61.5	60.5	58.7	58.7	57.7	55.8	53.9	51.9
77.5°	49.0	48.1	48.1	47.1	46.2	45.2	45.2	44.2	42.3	41.3	39.4
80°	35.5	34.6	34.6	34.6	32.7	33.6	32.7	31.7	30.7	29.8	28.8
82.5°	23.0	24.0	24.0	23.0	22.1	22.1	22.1	21.1	21.1	20.1	19.3
85°	13.5	13.5	13.5	13.5	12.5	12.5	12.5	11.6	11.6	11.6	10.6
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	4.8	4.8	4.8	4.8	4.8
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: P583931

CATALOG NUMBER: HCC8S15D010MB-HM80520930-81WWW

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3
2.5°	716.0	714.1	713.1	712.2	712.2	711.2	710.2	708.3	708.3	706.4	705.4
5°	719.9	717.0	715.0	713.1	712.2	710.2	708.3	705.4	704.6	701.7	698.8
7.5°	720.8	716.0	714.1	710.2	708.3	706.4	702.6	699.7	695.9	693.0	689.1
10°	717.0	713.1	708.3	703.6	702.6	699.7	694.0	690.1	685.3	681.4	675.6
12.5°	711.2	705.4	700.7	694.9	692.0	689.1	683.4	677.6	670.8	664.2	658.4
15°	701.7	694.9	688.2	681.4	677.6	674.7	667.9	661.3	654.6	645.9	640.1
17.5°	687.2	679.5	672.8	664.2	660.3	657.4	648.8	641.1	632.4	623.8	618.0
20°	668.9	659.4	651.7	642.0	639.1	634.3	625.6	617.1	607.4	597.8	591.1
22.5°	644.9	635.3	626.6	617.1	612.3	607.4	598.8	588.2	578.6	570.9	564.2
25°	617.1	608.4	597.8	589.1	583.5	577.7	568.0	559.4	550.7	539.2	532.5
27.5°	586.2	575.7	568.0	556.5	550.7	546.8	536.3	524.8	517.1	506.5	498.9
30°	551.6	542.1	533.5	521.9	516.1	512.2	502.7	492.1	484.4	473.8	466.1
32.5°	515.1	504.5	494.0	486.3	479.6	475.7	465.1	458.5	448.9	440.2	431.5
35°	475.7	465.1	457.5	446.9	443.1	439.2	430.5	422.0	413.3	405.6	398.9
37.5°	433.4	425.7	417.2	409.5	406.6	402.7	392.1	384.4	377.8	370.1	364.3
40°	392.1	385.4	379.7	372.0	367.2	364.3	356.6	349.8	342.2	337.4	331.6
42.5°	354.6	346.9	341.3	335.5	330.7	327.8	321.0	316.2	310.4	305.6	299.0
45°	315.2	311.4	304.6	299.9	297.0	293.2	288.4	282.6	277.8	273.9	269.1
47.5°	280.6	276.8	272.0	266.2	264.3	261.5	256.7	252.8	249.0	245.1	240.3
50°	249.0	244.1	240.3	236.4	234.5	231.6	226.8	224.9	222.0	218.2	215.3
52.5°	220.2	216.3	212.4	207.6	206.7	204.7	201.8	198.0	195.1	193.2	191.2
55°	194.1	190.3	187.4	183.5	182.6	180.8	176.9	175.0	173.0	171.1	169.2
57.5°	171.1	167.3	163.4	161.5	159.5	157.6	156.6	153.8	151.8	150.9	148.9
60°	149.9	146.0	143.2	140.4	139.4	138.5	136.5	134.6	132.7	130.7	129.8
62.5°	129.8	125.9	124.0	122.1	120.1	120.1	118.2	116.3	114.4	113.4	111.5
65°	111.5	109.5	106.6	103.8	102.8	102.8	100.0	99.1	98.1	96.2	94.2
67.5°	94.2	92.3	89.4	88.4	87.5	86.5	85.6	83.6	81.7	80.7	78.8
70°	78.8	76.9	75.0	74.0	73.0	72.1	70.1	69.2	67.2	66.3	65.3
72.5°	63.4	62.4	60.5	59.6	58.7	57.7	56.8	55.8	53.9	52.9	51.9
75°	51.0	50.0	48.1	47.1	46.2	46.2	45.2	43.3	42.3	42.3	41.3
77.5°	38.4	37.5	36.5	35.5	34.6	34.6	33.6	32.7	31.7	31.7	30.7
80°	27.8	26.9	25.9	25.9	25.9	24.9	24.0	24.0	23.0	23.0	22.1
82.5°	18.3	18.3	17.4	17.4	17.4	16.4	16.4	15.4	15.4	15.4	15.4
85°	10.6	10.6	10.6	9.6	9.6	9.6	9.6	9.6	9.6	8.7	9.6
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	3.9	3.9	3.9
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: P583931

CATALOG NUMBER: HCC8S15D010MB-HM80520930-81WWW

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3
2.5°	704.6	703.6	701.7	701.7	699.7	699.7	698.8	697.8	696.9	695.9	694.9
5°	697.8	694.0	692.0	691.1	689.1	688.2	685.3	683.4	682.4	680.5	678.5
7.5°	685.3	681.4	677.6	676.6	675.6	671.8	668.9	666.0	664.2	662.3	660.3
10°	670.8	667.0	662.3	660.3	658.4	653.6	649.7	646.8	643.0	639.1	638.2
12.5°	653.6	647.8	642.0	640.1	637.2	632.4	628.5	623.8	620.9	616.1	615.2
15°	633.3	626.6	621.9	617.1	615.2	610.3	603.6	599.7	593.9	592.0	587.2
17.5°	609.4	602.6	595.9	593.9	591.1	584.3	577.7	572.9	567.1	564.2	561.3
20°	584.3	575.7	569.0	567.1	563.2	557.4	550.7	545.9	541.2	535.4	532.5
22.5°	555.5	545.9	540.2	535.4	534.4	527.7	520.0	516.1	512.2	507.4	503.6
25°	523.8	515.1	508.4	504.5	502.7	496.9	491.2	486.3	480.6	477.7	472.8
27.5°	491.2	485.4	476.7	472.8	470.0	465.1	458.5	455.6	449.8	446.0	443.1
30°	459.5	450.8	446.0	441.2	438.3	433.4	427.7	424.8	420.1	416.2	413.3
32.5°	424.8	419.1	412.4	410.4	406.6	401.7	397.9	393.1	389.2	385.4	384.4
35°	393.1	385.4	378.7	376.8	373.9	369.1	367.2	364.3	359.5	358.5	354.6
37.5°	358.5	354.6	346.9	344.0	343.1	339.3	335.5	333.5	330.7	327.8	326.8
40°	325.8	321.0	317.2	314.3	312.3	309.4	305.6	304.6	302.7	299.0	298.0
42.5°	295.1	290.3	286.4	285.5	282.6	279.7	277.8	274.9	273.9	272.9	271.0
45°	265.2	262.3	258.6	257.6	256.7	252.8	250.9	249.0	247.0	246.1	244.1
47.5°	238.3	235.5	232.6	231.6	229.7	228.7	225.8	224.9	222.0	221.1	220.2
50°	212.4	210.5	208.6	207.6	205.7	204.7	202.8	200.9	198.9	198.0	197.0
52.5°	189.3	187.4	185.4	184.5	183.5	181.6	179.8	177.9	176.9	175.9	175.0
55°	167.3	165.3	164.4	163.4	162.4	161.5	158.6	157.6	156.6	155.7	153.8
57.5°	147.0	145.1	143.2	143.2	142.2	141.2	139.4	137.5	137.5	135.6	133.6
60°	128.8	126.9	125.0	124.0	123.0	121.1	120.1	119.2	118.2	117.2	115.3
62.5°	109.5	108.6	106.6	106.6	104.7	103.8	102.8	101.8	100.9	99.1	98.1
65°	93.3	92.3	90.4	89.4	89.4	88.4	86.5	85.6	84.6	84.6	83.6
67.5°	77.8	76.9	75.0	74.0	74.0	73.0	72.1	72.1	71.1	70.1	71.1
70°	64.3	62.4	62.4	61.5	61.5	60.5	59.6	59.6	59.6	60.5	60.5
72.5°	51.0	50.0	49.0	49.0	49.0	49.0	48.1	48.1	49.0	50.0	50.0
75°	40.4	39.4	39.4	39.4	38.4	38.4	39.4	39.4	40.4	40.4	40.4
77.5°	29.8	29.8	29.8	29.8	29.8	29.8	30.7	30.7	31.7	31.7	31.7
80°	22.1	22.1	22.1	22.1	22.1	23.0	23.0	23.0	23.0	23.0	24.0
82.5°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	16.4	16.4	16.4	16.4
85°	8.7	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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: P583931

CATALOG NUMBER: HCC8S15D010MB-HM80520930-81WWW

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3
2.5°	694.0	694.0	694.0	694.9	693.0	693.0	693.0	693.0
5°	677.6	676.6	675.6	676.6	674.7	674.7	673.7	673.7
7.5°	657.4	656.5	655.5	655.5	653.6	653.6	652.6	651.7
10°	635.3	633.3	634.3	632.4	631.4	630.5	629.5	628.5
12.5°	611.3	609.4	608.4	606.5	604.5	603.6	604.5	602.6
15°	585.3	582.5	581.5	579.6	577.7	576.7	576.7	575.7
17.5°	556.5	554.5	553.6	551.6	550.7	548.8	547.8	546.8
20°	529.6	524.8	525.7	523.8	522.8	519.0	519.0	520.0
22.5°	499.8	496.9	495.0	493.1	492.1	490.2	490.2	489.2
25°	470.0	467.1	466.1	464.2	463.2	461.4	460.4	460.4
27.5°	441.2	437.3	437.3	435.4	433.4	432.5	431.5	430.5
30°	410.4	407.5	406.6	406.6	405.6	405.6	402.7	403.7
32.5°	381.6	379.7	378.7	376.8	376.8	375.8	375.8	372.9
35°	352.7	349.8	350.8	348.8	347.9	346.9	347.9	346.9
37.5°	324.9	322.9	322.9	321.0	321.0	320.0	319.1	321.0
40°	297.0	296.1	295.1	294.1	295.1	294.1	292.2	293.2
42.5°	269.1	269.1	268.1	268.1	267.1	267.1	267.1	267.1
45°	244.1	243.2	243.2	242.2	242.2	242.2	242.2	241.2
47.5°	219.2	218.2	218.2	218.2	217.3	217.3	216.3	217.3
50°	195.1	195.1	194.1	194.1	195.1	194.1	193.2	193.2
52.5°	173.0	173.0	172.1	172.1	171.1	170.1	171.1	171.1
55°	152.8	151.8	150.9	150.9	149.9	148.9	148.9	149.9
57.5°	133.6	132.7	131.7	131.7	129.8	128.8	128.8	128.8
60°	115.3	113.4	113.4	112.4	112.4	111.5	111.5	111.5
62.5°	98.1	97.1	97.1	97.1	97.1	96.2	96.2	96.2
65°	83.6	83.6	83.6	84.6	84.6	85.6	85.6	85.6
67.5°	72.1	73.0	73.0	73.0	74.0	74.0	74.0	73.0
70°	61.5	61.5	61.5	62.4	62.4	62.4	62.4	62.4
72.5°	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
75°	40.4	41.3	41.3	41.3	40.4	41.3	41.3	40.4
77.5°	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
80°	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
82.5°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
85°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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)