

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: P583957

Luminaire Tested: **HCC8S15D010SL-HM80520940-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S15D010SL-HM80520940-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

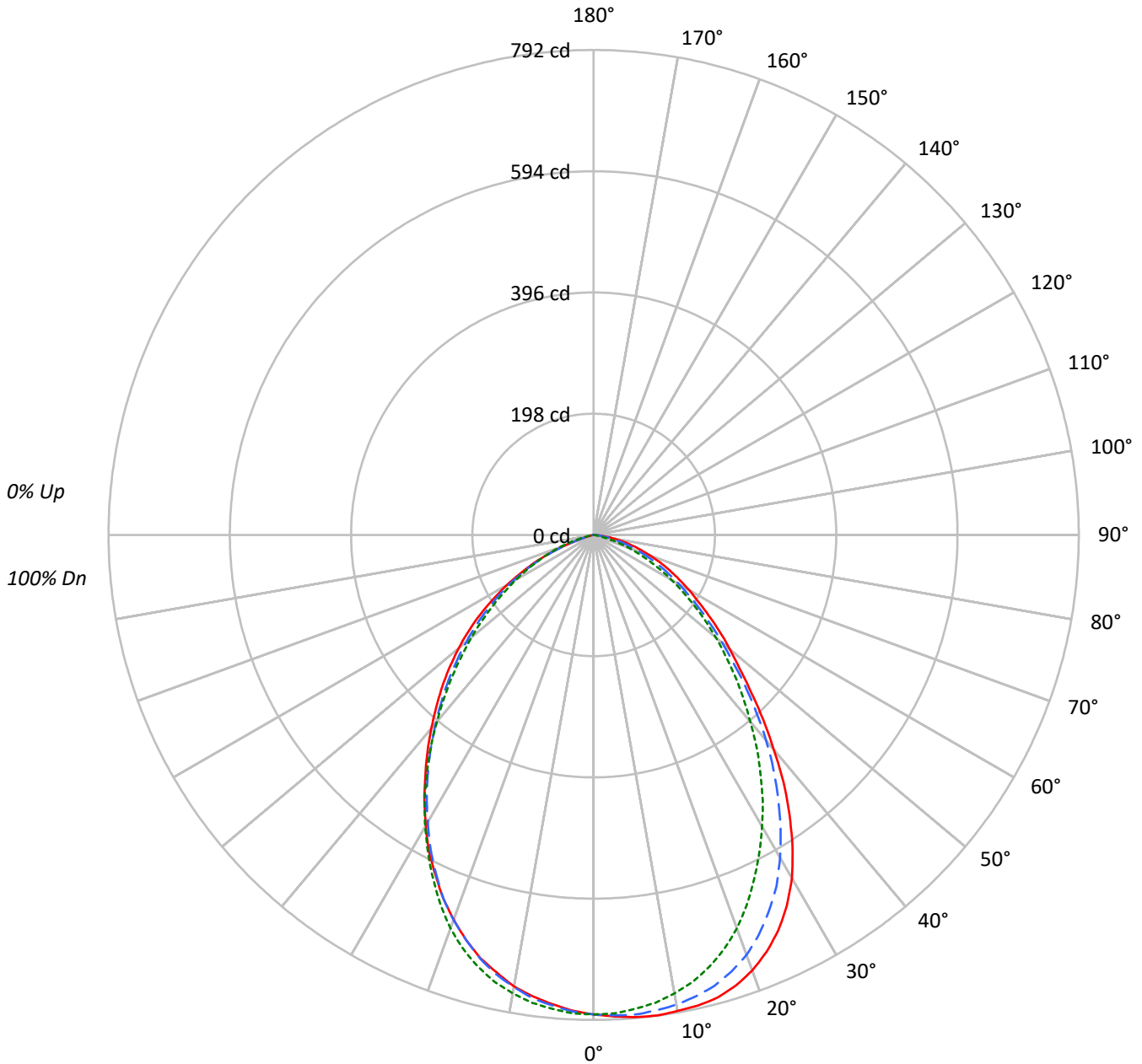
Lumens per Lamp: N/A
Luminaire Lumens: 1488.4 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P583957
CATALOG NUMBER: HCC8S15D010SL-HM80520940-81RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P583957

CATALOG NUMBER: HCC8S15D010SL-HM80520940-81RWWC

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	85	100	94	89	84	91	86	82	87	84	81	84	82	79	77								
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69	67								
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	69	65	61	59								
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	24148	24148	24148
5°	24469	24048	23819
10°	24718	23800	23443
15°	24971	23301	22832
20°	24841	22439	21927
25°	24263	21098	20813
30°	23045	19584	19509
35°	20979	17866	18028
40°	18392	15993	16585
45°	15869	14225	15228
50°	13898	12492	13792
55°	12311	10736	12139
60°	11089	9029	10065
65°	9996	7245	7705
70°	8763	5283	4237
75°	7482	2740	1120
80°	5754	746	195
85°	3715	0	0



TEST NUMBER: P583957
 CATALOG NUMBER: HCC8S15D010SL-HM80520940-81RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	5.0
10°-20°	207.7	14.0
20°-30°	294.8	19.8
30°-40°	310.3	20.9
40°-50°	264.0	17.7
50°-60°	190.8	12.8
60°-70°	108.5	7.3
70°-80°	34.2	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°	576.4	38.7
0°-40°	886.8	59.6
0°-60°	1341.6	90.1
0°-90°	1488.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1488.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	783	783	783	783	783	
5°	790	786	777	772	770	75
15°	782	762	730	716	715	220
25°	713	678	620	610	612	327
35°	557	525	475	472	479	347
45°	364	350	326	335	349	283
55°	229	212	200	211	226	206
65°	137	118	99	98	106	136
75°	63	48	23	10	9	68
85°	10	6	0	0	0	14
90°	0	0	0	0	0	

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



TEST NUMBER: P583957

CATALOG NUMBER: HCC8S15D010SL-HM80520940-81RWWC

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1
2.5°	787.3	788.4	786.3	786.3	788.4	786.3	787.3	787.3	786.3	786.3	785.3
5°	790.5	789.4	789.4	789.4	790.5	788.4	787.3	788.4	786.3	786.3	786.3
7.5°	791.6	791.6	790.5	789.4	789.4	789.4	788.4	787.3	786.3	784.2	783.1
10°	789.4	789.4	790.5	788.4	788.4	786.3	786.3	784.2	784.2	782.2	779.0
12.5°	787.3	786.3	786.3	784.2	784.2	782.2	782.2	779.0	777.9	774.8	771.7
15°	782.2	781.1	779.0	777.9	776.9	775.8	773.7	772.6	769.5	765.4	762.3
17.5°	771.7	770.6	769.5	767.5	765.4	764.3	763.2	760.1	756.0	752.9	747.6
20°	757.0	756.0	756.0	752.9	751.8	748.7	747.6	743.4	740.2	734.0	729.9
22.5°	737.1	738.2	736.1	734.0	731.9	728.8	726.7	722.5	717.3	711.1	705.8
25°	713.1	714.2	712.0	710.0	706.9	704.7	702.6	696.4	691.2	683.8	677.6
27.5°	682.8	682.8	682.8	680.7	675.4	674.4	672.3	666.0	658.8	652.5	646.2
30°	647.2	646.2	646.2	643.0	640.9	636.7	633.6	628.4	623.2	615.9	608.5
32.5°	604.3	605.4	602.3	600.2	597.1	597.1	592.9	588.6	582.4	575.0	567.8
35°	557.3	558.4	556.2	555.3	550.0	549.0	547.9	542.6	538.5	533.2	524.9
37.5°	509.2	508.1	507.1	507.1	503.9	501.9	499.8	496.7	490.4	486.2	482.0
40°	456.9	456.9	456.9	455.9	454.9	452.7	451.8	449.6	445.4	441.3	438.1
42.5°	409.8	409.8	408.9	407.8	405.7	406.7	404.6	402.6	398.4	395.2	393.2
45°	363.9	363.9	363.9	364.9	362.8	359.7	359.7	357.6	355.5	353.4	350.3
47.5°	323.1	326.2	324.1	323.1	324.1	319.9	319.9	317.9	315.8	313.7	309.4
50°	289.7	289.7	289.7	287.5	286.5	286.5	283.4	281.2	280.2	278.1	273.9
52.5°	259.3	257.3	257.3	256.2	255.1	253.0	253.0	251.0	246.8	244.6	241.5
55°	229.0	229.0	228.0	226.9	225.8	224.9	223.8	220.6	218.6	215.5	212.2
57.5°	201.8	203.9	202.8	200.8	198.7	198.7	196.5	194.5	191.4	188.2	185.1
60°	179.8	178.8	178.8	177.7	175.7	174.6	173.5	170.4	167.3	164.1	161.0
62.5°	156.9	156.9	156.9	154.7	152.7	151.6	150.6	148.5	144.2	141.1	139.1
65°	137.0	135.9	134.8	133.9	132.8	130.7	129.7	127.6	124.5	121.3	118.2
67.5°	117.1	116.0	116.0	115.0	111.8	110.9	110.9	107.7	104.6	101.5	98.3
70°	97.2	97.2	97.2	95.2	94.1	93.0	92.1	89.9	86.8	83.6	80.5
72.5°	80.5	79.4	79.4	78.4	75.3	74.2	73.1	71.1	68.0	65.9	63.7
75°	62.8	62.8	61.7	60.6	59.6	58.6	57.5	55.4	52.3	49.2	48.1
77.5°	48.1	47.0	47.0	46.0	43.9	42.9	42.9	40.7	37.6	35.5	33.5
80°	32.4	33.5	32.4	31.3	30.4	29.3	28.2	27.2	25.1	23.0	21.0
82.5°	19.9	21.0	19.9	19.9	18.8	17.8	17.8	15.7	14.6	13.6	12.5
85°	10.5	10.5	10.5	10.5	9.4	9.4	9.4	8.3	7.4	6.3	6.3
87.5°	3.1	4.2	3.1	3.1	3.1	3.1	3.1	3.1	2.0	2.0	2.0
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: P583957

CATALOG NUMBER: HCC8S15D010SL-HM80520940-81RWWC

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1
2.5°	786.3	785.3	784.2	784.2	784.2	784.2	784.2	783.1	782.2	782.2	782.2
5°	784.2	784.2	784.2	783.1	782.2	782.2	780.0	779.0	777.9	776.9	775.8
7.5°	782.2	780.0	779.0	777.9	776.9	776.9	774.8	772.6	772.6	770.6	768.5
10°	775.8	774.8	772.6	770.6	769.5	768.5	766.4	763.2	762.3	760.1	758.1
12.5°	768.5	766.4	764.3	760.1	759.2	758.1	753.8	750.7	748.7	747.6	742.4
15°	759.2	754.9	751.8	746.6	745.5	743.4	740.2	737.1	733.0	729.9	727.7
17.5°	742.4	738.2	733.0	727.7	725.7	725.7	720.5	716.3	711.1	708.9	704.7
20°	722.5	717.3	713.1	706.9	703.7	700.6	697.5	691.2	687.0	683.8	678.7
22.5°	699.5	692.2	687.0	680.7	675.4	672.3	667.1	661.9	656.6	653.5	649.4
25°	670.2	664.0	655.6	649.4	646.2	642.0	635.8	630.5	625.3	620.1	617.9
27.5°	637.8	629.5	622.1	614.8	611.7	608.5	601.2	594.9	590.8	585.5	583.5
30°	602.3	593.9	585.5	579.2	576.1	570.9	566.7	559.4	554.2	550.0	544.8
32.5°	561.5	555.3	547.9	538.5	536.3	532.2	526.0	522.8	516.6	513.5	509.2
35°	517.5	513.5	506.1	498.7	495.6	493.6	488.3	482.0	477.8	474.6	472.6
37.5°	475.7	470.6	463.2	458.0	455.9	452.7	446.5	443.3	439.1	437.1	432.8
40°	430.8	425.6	420.3	417.2	414.0	412.0	407.8	404.6	400.4	397.3	396.3
42.5°	386.9	383.8	379.6	375.4	374.3	371.1	369.1	366.0	362.8	361.7	358.6
45°	347.2	344.0	339.8	335.6	334.6	332.5	331.5	328.4	326.2	326.2	326.2
47.5°	307.4	304.3	300.0	298.0	299.1	294.9	294.9	293.8	291.7	291.7	292.8
50°	271.8	267.6	266.7	264.5	262.4	260.4	261.4	258.2	258.2	260.4	259.3
52.5°	238.3	234.3	233.2	231.1	230.0	230.0	229.0	229.0	228.0	229.0	229.0
55°	208.1	205.0	202.8	200.8	199.7	199.7	199.7	198.7	197.6	199.7	200.8
57.5°	180.9	179.8	177.7	174.6	173.5	172.6	171.5	171.5	171.5	171.5	172.6
60°	156.9	154.7	152.7	149.5	149.5	148.5	147.4	146.4	146.4	146.4	146.4
62.5°	135.9	132.8	129.7	127.6	126.5	125.4	124.5	122.3	122.3	122.3	122.3
65°	115.0	111.8	109.8	107.7	105.6	105.6	103.5	102.4	100.4	99.3	97.2
67.5°	95.2	93.0	91.0	87.8	86.8	85.8	83.6	82.5	79.4	78.4	77.4
70°	77.4	74.2	72.2	70.0	69.0	66.9	64.8	62.8	60.6	58.6	56.5
72.5°	60.6	57.5	55.4	53.4	51.2	51.2	48.1	46.0	42.9	40.7	37.6
75°	44.9	41.8	39.8	36.6	35.5	34.5	31.3	29.3	26.1	23.0	21.0
77.5°	30.4	28.2	26.1	23.0	21.0	21.0	17.8	15.7	13.6	10.5	9.4
80°	18.8	16.7	14.6	12.5	12.5	10.5	9.4	7.4	5.2	4.2	3.1
82.5°	10.5	9.4	8.3	6.3	6.3	5.2	4.2	3.1	2.0	1.1	1.1
85°	5.2	4.2	3.1	3.1	2.0	2.0	2.0	1.1	1.1	0.0	0.0
87.5°	2.0	1.1	1.1	1.1	1.1	1.1	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: P583957

CATALOG NUMBER: HCC8S15D010SL-HM80520940-81RWWC

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1
2.5°	781.1	781.1	780.0	780.0	780.0	779.0	780.0	779.0	779.0	779.0	780.0
5°	776.9	774.8	774.8	773.7	773.7	772.6	773.7	772.6	771.7	770.6	771.7
7.5°	768.5	766.4	765.4	764.3	764.3	764.3	763.2	762.3	763.2	760.1	762.3
10°	757.0	756.0	753.8	752.9	751.8	752.9	751.8	749.8	749.8	749.8	748.7
12.5°	742.4	740.2	739.3	738.2	736.1	736.1	737.1	735.1	735.1	733.0	733.0
15°	724.6	722.5	720.5	720.5	718.3	718.3	717.3	717.3	716.3	715.2	715.2
17.5°	702.6	699.5	697.5	698.4	697.5	696.4	696.4	694.3	693.2	694.3	694.3
20°	676.5	674.4	672.3	673.4	671.3	670.2	671.3	668.2	669.1	669.1	669.1
22.5°	647.2	646.2	643.0	643.0	640.9	639.9	640.9	640.9	642.0	640.9	640.9
25°	614.8	612.7	610.6	610.6	609.6	608.5	609.6	610.6	609.6	610.6	610.6
27.5°	580.3	577.2	577.2	575.0	575.0	576.1	575.0	576.1	577.2	577.2	579.2
30°	542.6	541.6	540.6	539.5	539.5	540.6	540.6	540.6	541.6	543.7	543.7
32.5°	507.1	505.0	503.0	503.0	505.0	503.9	505.0	505.0	507.1	507.1	509.2
35°	468.4	468.4	466.3	467.4	467.4	467.4	467.4	469.5	471.5	472.6	474.6
37.5°	432.8	429.7	430.8	430.8	431.9	430.8	433.9	433.9	436.0	436.0	438.1
40°	394.2	394.2	395.2	394.2	395.2	395.2	397.3	399.5	400.4	402.6	403.6
42.5°	357.6	359.7	357.6	358.6	359.7	360.8	361.7	362.8	367.0	369.1	372.2
45°	324.1	325.2	326.2	327.3	326.2	328.4	329.3	331.5	334.6	335.6	336.7
47.5°	291.7	292.8	293.8	294.9	294.9	296.9	298.0	300.0	302.2	303.2	304.3
50°	260.4	262.4	263.5	263.5	264.5	266.7	268.7	268.7	270.8	273.9	275.0
52.5°	232.1	232.1	234.3	235.2	236.3	236.3	239.4	240.5	241.5	243.7	245.7
55°	200.8	203.9	205.0	205.0	207.0	209.1	210.2	211.2	211.2	215.5	215.5
57.5°	173.5	174.6	176.7	176.7	176.7	179.8	179.8	182.0	183.0	184.0	186.2
60°	146.4	148.5	148.5	149.5	148.5	150.6	151.6	153.8	154.7	155.8	156.9
62.5°	121.3	121.3	122.3	122.3	122.3	122.3	124.5	124.5	126.5	127.6	128.6
65°	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	98.3	98.3	100.4
67.5°	75.3	74.2	72.2	73.1	72.2	72.2	71.1	71.1	72.2	72.2	74.2
70°	54.3	53.4	51.2	51.2	50.2	49.2	48.1	47.0	46.0	46.0	46.0
72.5°	35.5	33.5	30.4	29.3	29.3	27.2	25.1	24.1	24.1	24.1	24.1
75°	17.8	15.7	13.6	12.5	12.5	10.5	11.4	10.5	10.5	10.5	10.5
77.5°	7.4	5.2	4.2	4.2	4.2	3.1	3.1	3.1	3.1	3.1	3.1
80°	2.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	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	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: P583957

CATALOG NUMBER: HCC8S15D010SL-HM80520940-81RWWC

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1
2.5°	779.0	779.0	776.9	777.9	777.9	777.9	777.9	777.9
5°	769.5	770.6	769.5	770.6	770.6	769.5	769.5	769.5
7.5°	760.1	761.2	760.1	761.2	761.2	761.2	760.1	760.1
10°	748.7	748.7	748.7	748.7	748.7	747.6	748.7	748.7
12.5°	733.0	733.0	733.0	734.0	734.0	733.0	733.0	731.9
15°	716.3	714.2	715.2	716.3	715.2	715.2	715.2	715.2
17.5°	693.2	694.3	693.2	693.2	693.2	693.2	694.3	693.2
20°	669.1	669.1	670.2	669.1	669.1	669.1	669.1	668.2
22.5°	642.0	640.9	640.9	642.0	642.0	640.9	642.0	642.0
25°	611.7	612.7	611.7	611.7	612.7	612.7	612.7	611.7
27.5°	579.2	580.3	581.4	580.3	580.3	580.3	581.4	582.4
30°	545.9	547.9	545.9	545.9	547.9	546.8	547.9	547.9
32.5°	510.2	513.5	511.3	513.5	513.5	514.4	513.5	514.4
35°	474.6	477.8	477.8	477.8	478.9	480.0	480.0	478.9
37.5°	441.3	442.2	442.2	444.4	445.4	446.5	446.5	445.4
40°	406.7	408.9	409.8	409.8	409.8	412.0	414.0	412.0
42.5°	373.3	374.3	375.4	375.4	377.4	378.5	379.6	379.6
45°	340.9	342.9	344.0	345.0	346.1	348.2	347.2	349.2
47.5°	307.4	310.5	311.6	312.6	314.7	315.8	316.8	317.9
50°	277.0	279.2	279.2	281.2	284.4	284.4	286.5	287.5
52.5°	246.8	247.7	248.8	249.9	252.0	254.1	254.1	256.2
55°	217.5	218.6	218.6	219.6	220.6	224.9	225.8	225.8
57.5°	187.1	187.1	189.3	190.3	191.4	193.4	193.4	193.4
60°	157.9	158.9	158.9	160.0	161.0	163.2	164.1	163.2
62.5°	128.6	129.7	129.7	130.7	132.8	133.9	132.8	132.8
65°	101.5	102.4	102.4	103.5	105.6	105.6	104.6	105.6
67.5°	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
70°	47.0	46.0	44.9	46.0	46.0	46.0	44.9	47.0
72.5°	23.0	24.1	24.1	24.1	24.1	24.1	24.1	23.0
75°	10.5	10.5	9.4	9.4	9.4	10.5	10.5	9.4
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	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)