

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: P583879

Luminaire Tested: **HCC8S15D010SL-HM80520835-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583879
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: HCC8S15D010SL-HM80520835-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

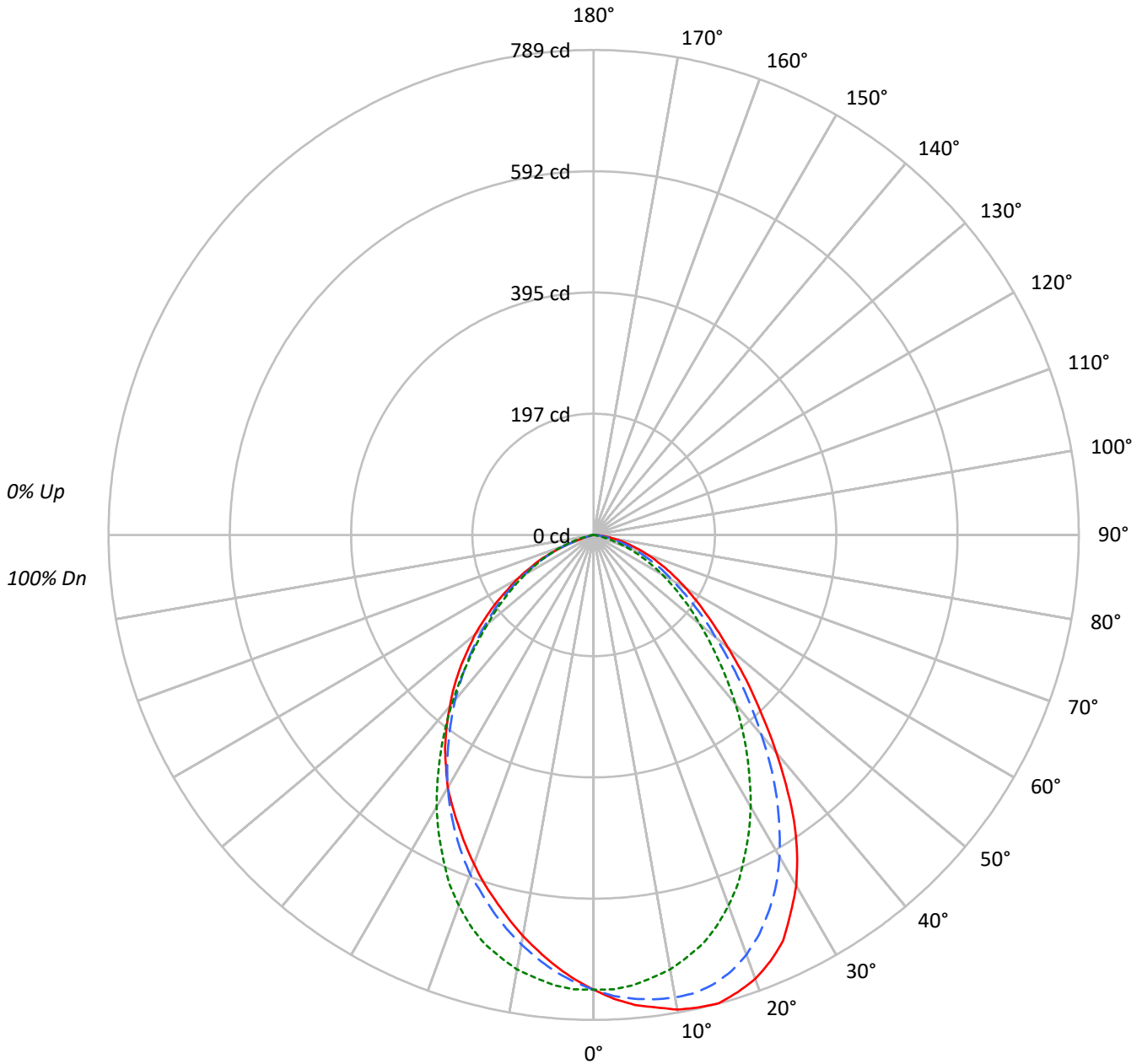
Lumens per Lamp: N/A
Luminaire Lumens: 1378.2 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P583879
CATALOG NUMBER: HCC8S15D010SL-HM80520835-81WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P583879

CATALOG NUMBER: HCC8S15D010SL-HM80520835-81WWBB

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°	22816	22816	22816
5°	23760	22764	21804
10°	24552	22476	20744
15°	25175	21961	19665
20°	25225	21048	18692
25°	24797	19717	17723
30°	23468	18191	16892
35°	21401	16360	15863
40°	18605	14427	14648
45°	15965	12490	13410
50°	13639	10770	12041
55°	11951	9279	10462
60°	10645	7913	8801
65°	9442	6450	7019
70°	8376	4787	3985
75°	6982	2502	1191
80°	5505	799	195
85°	3927	389	0



TEST NUMBER: P583879
 CATALOG NUMBER: HCC8S15D010SL-HM80520835-81WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	5.1
10°-20°	195.4	14.2
20°-30°	276.6	20.1
30°-40°	289.4	21.0
40°-50°	241.3	17.5
50°-60°	171.1	12.4
60°-70°	98.6	7.2
70°-80°	31.7	2.3
80°-90°	4.4	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°	541.7	39.3
0°-40°	831.0	60.3
0°-60°	1243.5	90.2
0°-90°	1378.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1378.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	740	740	740	740	740	
5°	768	758	735	713	704	74
15°	789	756	688	634	616	222
25°	729	675	580	533	521	333
35°	568	519	435	411	421	352
45°	366	336	286	290	308	284
55°	222	199	173	181	195	201
65°	129	108	88	88	96	129
75°	59	43	21	10	10	64
85°	11	6	1	0	0	14
90°	0	0	0	0	0	

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



TEST NUMBER: P583879

CATALOG NUMBER: HCC8S15D010SL-HM80520835-81WWBB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9
2.5°	755.4	754.2	753.1	754.2	753.1	754.2	753.1	753.1	752.0	751.0	751.0
5°	767.6	766.4	766.4	766.4	765.3	764.2	764.2	763.1	761.0	759.8	757.6
7.5°	775.3	776.4	776.4	776.4	774.2	774.2	771.9	769.8	767.6	765.3	762.0
10°	784.1	784.1	783.0	781.9	779.8	778.6	777.5	775.3	771.9	767.6	764.2
12.5°	787.5	787.5	786.4	784.1	783.0	781.9	780.8	777.5	773.1	767.6	763.1
15°	788.6	786.4	785.2	784.1	781.9	778.6	778.6	774.2	768.7	762.0	756.5
17.5°	779.8	780.8	778.6	776.4	773.1	770.8	767.6	764.2	757.6	749.9	744.3
20°	768.7	767.6	766.4	763.1	758.7	757.6	754.2	748.8	743.2	734.3	726.6
22.5°	751.0	749.9	747.6	745.4	741.0	738.8	735.4	728.8	721.1	712.3	703.4
25°	728.8	726.6	723.4	718.9	715.5	713.4	708.9	702.3	693.5	683.5	674.7
27.5°	693.5	696.7	694.6	687.9	684.6	680.2	679.0	670.2	662.5	652.5	642.6
30°	659.1	659.1	655.9	652.5	647.0	643.7	639.3	632.6	624.9	612.7	604.9
32.5°	616.0	614.9	610.5	609.4	604.9	598.3	597.2	588.4	580.7	571.8	561.8
35°	568.5	566.2	561.8	558.5	556.3	553.0	549.7	541.9	534.2	525.4	518.8
37.5°	514.3	514.3	513.2	507.7	505.4	503.2	500.0	492.1	487.8	478.9	472.2
40°	462.2	461.2	457.9	456.8	454.5	451.3	449.0	444.6	438.0	431.3	424.6
42.5°	411.4	412.5	408.1	409.2	404.8	402.6	401.5	394.9	391.5	384.9	379.3
45°	366.1	365.0	362.7	361.6	359.5	357.3	355.0	351.7	346.2	339.6	336.2
47.5°	324.0	320.8	320.8	319.6	318.5	314.1	312.9	309.7	306.3	299.7	295.3
50°	284.3	284.3	284.3	283.2	279.8	278.7	276.5	273.2	269.8	265.5	258.8
52.5°	252.2	252.2	252.2	251.0	246.7	245.6	244.4	240.0	235.6	232.2	227.9
55°	222.3	223.4	222.3	220.0	216.8	216.8	213.4	211.2	206.8	203.5	199.1
57.5°	196.9	196.9	194.6	193.5	191.4	190.3	188.0	185.8	180.3	177.0	171.5
60°	172.6	171.5	171.5	169.2	167.0	164.8	163.6	160.4	158.1	152.7	148.2
62.5°	150.4	150.4	148.2	148.2	143.8	143.8	142.7	139.3	136.0	130.5	128.3
65°	129.4	129.4	128.3	127.1	123.9	122.8	121.7	118.3	115.1	111.7	108.3
67.5°	110.6	110.6	108.3	107.2	105.1	104.0	101.7	99.5	96.2	92.9	89.5
70°	92.9	91.8	90.7	89.5	87.4	86.3	84.1	81.8	78.6	76.3	73.0
72.5°	75.2	75.2	74.1	71.9	70.7	69.6	68.6	66.4	63.0	59.8	57.5
75°	58.6	58.6	58.6	56.4	54.2	53.1	53.1	50.9	48.7	45.3	43.1
77.5°	45.3	44.2	43.1	43.1	41.0	39.8	38.7	37.6	34.3	33.1	31.0
80°	31.0	32.1	31.0	29.9	28.8	27.6	27.6	25.4	24.3	22.2	19.9
82.5°	21.0	19.9	19.9	18.8	18.8	17.7	17.7	15.4	14.3	13.3	12.2
85°	11.1	11.1	10.0	10.0	10.0	8.8	8.8	7.7	7.7	6.6	5.5
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	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: P583879

CATALOG NUMBER: HCC8S15D010SL-HM80520835-81WWBB

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9
2.5°	749.9	747.6	746.5	746.5	745.4	744.3	743.2	742.2	739.9	739.9	737.7
5°	755.4	753.1	752.0	748.8	746.5	746.5	742.2	741.0	737.7	735.4	733.2
7.5°	759.8	755.4	752.0	748.8	746.5	744.3	739.9	735.4	731.1	726.6	724.4
10°	759.8	755.4	749.9	744.3	742.2	739.9	734.3	727.7	722.2	717.8	712.3
12.5°	757.6	751.0	744.3	739.9	735.4	732.2	725.5	718.9	712.3	703.4	699.0
15°	751.0	742.2	735.4	727.7	724.4	718.9	713.4	703.4	695.6	687.9	682.4
17.5°	737.7	726.6	718.9	711.2	705.6	702.3	693.5	684.6	675.8	666.8	660.2
20°	717.8	707.8	699.0	689.0	684.6	680.2	669.1	660.2	651.4	641.4	634.8
22.5°	693.5	683.5	671.3	663.6	657.0	651.4	641.4	631.5	622.6	613.8	604.9
25°	663.6	653.6	642.6	630.5	626.0	620.5	609.4	599.5	589.5	579.5	571.8
27.5°	631.5	618.3	609.4	596.1	591.7	586.1	573.9	563.0	554.1	546.3	537.6
30°	592.7	582.9	570.7	558.5	554.1	548.5	538.6	528.6	519.8	510.9	502.1
32.5°	550.8	540.8	528.6	519.8	513.2	508.8	498.7	490.0	481.0	472.2	464.5
35°	506.6	495.5	486.6	477.8	472.2	466.7	456.8	449.0	442.4	434.6	426.9
37.5°	461.2	453.4	444.6	434.6	429.1	424.6	416.9	408.1	402.6	396.0	390.4
40°	416.9	408.1	400.3	391.5	387.0	383.8	376.1	369.5	363.9	358.4	355.0
42.5°	371.6	363.9	356.1	350.5	347.3	343.9	338.5	330.7	327.4	321.9	318.5
45°	329.6	322.9	317.4	309.7	307.5	305.2	298.6	293.1	289.8	286.4	284.3
47.5°	289.8	285.3	278.7	274.3	271.0	268.7	264.4	259.9	256.5	254.4	252.2
50°	255.5	249.9	245.6	241.1	238.8	235.6	231.1	229.0	226.8	224.5	224.5
52.5°	223.4	217.9	213.4	210.2	207.9	205.7	202.4	201.2	199.1	199.1	198.0
55°	193.5	190.3	185.8	181.4	180.3	179.2	177.0	174.7	173.6	172.6	173.6
57.5°	168.1	164.8	160.4	157.0	155.9	154.8	153.8	151.5	150.4	150.4	150.4
60°	144.8	141.6	138.2	135.0	135.0	132.7	131.6	130.5	129.4	128.3	128.3
62.5°	123.9	120.5	117.2	115.1	113.9	112.8	110.6	109.5	108.3	108.3	107.2
65°	105.1	100.6	99.5	96.2	95.1	94.0	92.9	90.7	89.5	88.4	87.4
67.5°	86.3	84.1	80.7	78.6	77.4	76.3	75.2	73.0	71.9	70.7	68.6
70°	69.6	67.5	65.3	63.0	61.9	60.9	58.6	56.4	55.3	53.1	49.8
72.5°	54.2	51.9	49.8	47.6	46.4	45.3	43.1	41.0	38.7	36.5	34.3
75°	41.0	38.7	35.4	33.1	32.1	32.1	28.8	26.5	24.3	21.0	18.8
77.5°	28.8	25.4	24.3	22.2	21.0	18.8	16.6	14.3	12.2	11.1	8.8
80°	18.8	16.6	14.3	13.3	12.2	11.1	10.0	7.7	5.5	4.5	3.4
82.5°	11.1	10.0	8.8	7.7	6.6	5.5	4.5	4.5	3.4	2.2	1.1
85°	5.5	4.5	3.4	3.4	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: P583879

CATALOG NUMBER: HCC8S15D010SL-HM80520835-81WWBB

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9
2.5°	736.6	735.4	734.3	733.2	733.2	731.1	731.1	730.0	727.7	726.6	726.6
5°	730.0	726.6	724.4	723.4	722.2	718.9	717.8	715.5	713.4	711.2	710.0
7.5°	720.0	714.4	712.3	711.2	707.8	704.4	702.3	699.0	695.6	692.4	691.2
10°	707.8	702.3	696.7	694.6	691.2	689.0	684.6	680.2	676.8	673.5	670.2
12.5°	692.4	685.6	680.2	677.9	674.7	670.2	663.6	661.4	655.9	653.6	649.3
15°	674.7	666.8	661.4	658.1	654.7	648.0	643.7	639.3	633.7	631.5	627.1
17.5°	652.5	643.7	638.2	634.8	632.6	627.1	620.5	614.9	609.4	607.2	603.8
20°	626.0	620.5	612.7	609.4	607.2	600.6	593.9	591.7	587.3	582.9	579.5
22.5°	596.1	590.6	582.9	579.5	578.4	572.9	567.3	564.1	560.7	557.4	554.1
25°	565.1	558.5	551.9	549.7	547.4	543.0	538.6	536.3	533.1	530.9	528.6
27.5°	532.0	525.4	519.8	516.5	514.3	510.9	508.8	506.6	504.3	502.1	501.0
30°	496.6	490.0	485.5	483.3	481.0	480.0	476.7	475.6	474.4	472.2	473.3
32.5°	461.2	455.6	451.3	447.9	447.9	445.7	444.6	444.6	443.4	443.4	443.4
35°	422.5	419.2	415.8	414.8	413.7	412.5	411.4	412.5	411.4	412.5	413.7
37.5°	387.0	383.8	381.5	380.4	379.3	380.4	379.3	379.3	380.4	382.7	383.8
40°	350.5	348.4	346.2	347.3	346.2	346.2	346.2	349.5	350.5	351.7	352.8
42.5°	316.3	314.1	312.9	312.9	314.1	312.9	315.2	316.3	318.5	321.9	324.0
45°	283.2	282.0	282.0	283.2	282.0	284.3	284.3	286.4	289.8	292.0	294.1
47.5°	252.2	252.2	252.2	253.3	253.3	254.4	256.5	257.7	259.9	262.1	264.4
50°	223.4	224.5	225.6	225.6	225.6	227.9	230.0	231.1	232.2	233.4	236.7
52.5°	198.0	199.1	199.1	200.2	201.2	202.4	203.5	205.7	206.8	209.1	210.2
55°	173.6	173.6	175.8	177.0	177.0	177.0	179.2	179.2	181.4	182.4	184.7
57.5°	150.4	151.5	151.5	152.7	152.7	153.8	154.8	155.9	157.0	158.1	159.3
60°	128.3	128.3	128.3	129.4	130.5	131.6	130.5	132.7	132.7	135.0	136.0
62.5°	107.2	108.3	108.3	108.3	108.3	108.3	108.3	109.5	110.6	111.7	112.8
65°	87.4	87.4	87.4	86.3	87.4	86.3	87.4	88.4	88.4	89.5	90.7
67.5°	67.5	67.5	65.3	65.3	66.4	66.4	66.4	66.4	65.3	67.5	67.5
70°	48.7	47.6	46.4	45.3	45.3	44.2	44.2	43.1	43.1	43.1	43.1
72.5°	32.1	29.9	27.6	26.5	25.4	25.4	23.3	22.2	23.3	23.3	23.3
75°	16.6	14.3	13.3	12.2	11.1	11.1	10.0	10.0	10.0	10.0	10.0
77.5°	6.6	5.5	4.5	4.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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: P583879

CATALOG NUMBER: HCC8S15D010SL-HM80520835-81WWBB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9
2.5°	725.5	725.5	724.4	725.5	723.4	724.4	723.4	723.4
5°	708.9	706.7	706.7	706.7	705.6	705.6	704.4	704.4
7.5°	689.0	687.9	686.8	685.6	684.6	683.5	683.5	683.5
10°	669.1	666.8	666.8	665.8	663.6	662.5	662.5	662.5
12.5°	645.9	644.8	643.7	643.7	639.3	640.3	639.3	639.3
15°	623.7	622.6	622.6	619.4	617.1	617.1	617.1	616.0
17.5°	600.6	599.5	598.3	596.1	593.9	593.9	592.7	593.9
20°	576.2	575.1	572.9	572.9	571.8	570.7	568.5	569.6
22.5°	551.9	549.7	548.5	548.5	547.4	547.4	545.3	545.3
25°	526.5	525.4	524.2	525.4	523.1	523.1	520.9	520.9
27.5°	500.0	498.7	498.7	498.7	497.7	498.7	497.7	497.7
30°	473.3	473.3	472.2	472.2	473.3	472.2	473.3	474.4
32.5°	444.6	444.6	445.7	445.7	446.8	446.8	446.8	446.8
35°	414.8	416.9	416.9	418.0	419.2	420.3	420.3	421.4
37.5°	387.0	388.3	389.3	390.4	392.6	392.6	392.6	392.6
40°	357.3	358.4	360.5	359.5	363.9	365.0	363.9	363.9
42.5°	326.3	328.5	329.6	331.7	332.9	335.1	336.2	336.2
45°	297.5	298.6	300.8	303.1	304.1	307.5	307.5	307.5
47.5°	267.6	269.8	271.0	273.2	274.3	277.6	278.7	277.6
50°	238.8	241.1	243.3	243.3	246.7	247.7	249.9	251.0
52.5°	211.2	212.3	214.6	215.7	217.9	220.0	221.2	222.3
55°	184.7	185.8	188.0	188.0	191.4	192.4	194.6	194.6
57.5°	160.4	161.5	163.6	162.6	164.8	167.0	167.0	165.9
60°	137.1	137.1	137.1	139.3	140.5	141.6	142.7	142.7
62.5°	112.8	115.1	116.2	116.2	117.2	118.3	118.3	117.2
65°	90.7	92.9	94.0	94.0	95.1	95.1	95.1	96.2
67.5°	68.6	68.6	68.6	69.6	68.6	68.6	68.6	68.6
70°	43.1	43.1	43.1	43.1	42.1	43.1	43.1	44.2
72.5°	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
75°	10.0	10.0	10.0	11.1	10.0	10.0	10.0	10.0
77.5°	4.5	3.4	4.5	4.5	3.4	3.4	3.4	3.4
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)