

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: P583932

Luminaire Tested: **HCC8S15D010SL-HM80520930-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S15D010SL-HM80520930-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

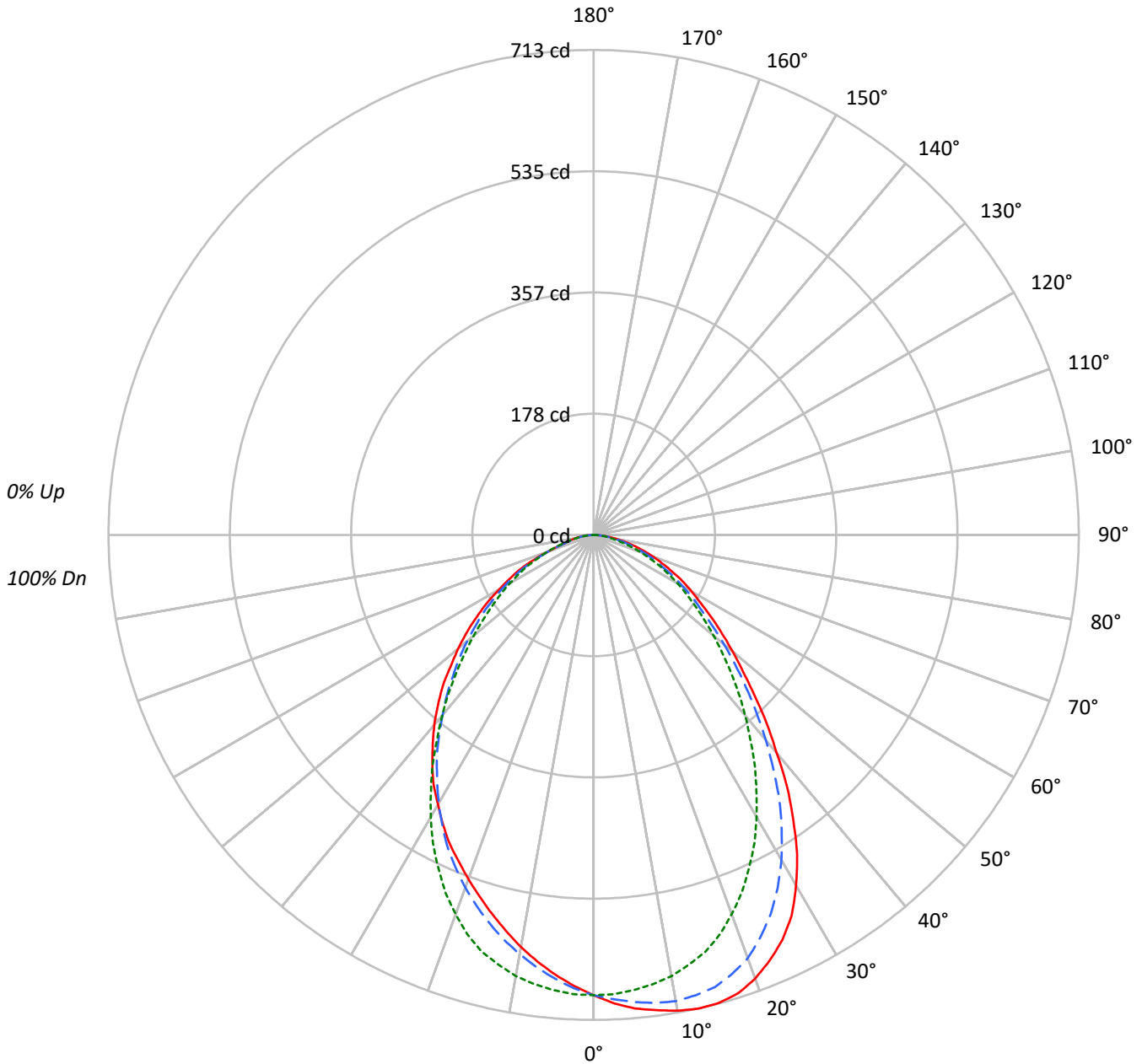
Lumens per Lamp: N/A
Luminaire Lumens: 1361.1 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P583932
CATALOG NUMBER: HCC8S15D010SL-HM80520930-81WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P583932

CATALOG NUMBER: HCC8S15D010SL-HM80520930-81WWWB

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	92	91	89	87			
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75			
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65			
4	87	76	68	62	84	75	67	61	72	66	61	70	64	60	68	63	59	57			
5	80	69	60	54	78	67	60	54	65	59	54	64	58	53	62	57	52	50			
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45			
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40			
8	65	52	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37			
9	61	48	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33			
10	57	45	38	33	56	44	37	33	44	37	32	43	37	32	42	36	32	30			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	20867	20867	20867
5°	21634	20798	20086
10°	22241	20619	19266
15°	22740	20253	18414
20°	22777	19463	17664
25°	22340	18380	17039
30°	21186	17045	16290
35°	19251	15524	15558
40°	16830	13932	14665
45°	14587	12407	13667
50°	12775	11024	12454
55°	11371	9768	11263
60°	10256	8776	9898
65°	9259	7720	8624
70°	8322	6500	6410
75°	7339	5159	4813
80°	6144	4262	4599
85°	4776	3750	4104



TEST NUMBER: P583932
 CATALOG NUMBER: HCC8S15D010SL-HM80520930-81WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	4.7
10°-20°	179.8	13.2
20°-30°	257.0	18.9
30°-40°	273.1	20.1
40°-50°	235.1	17.3
50°-60°	175.8	12.9
60°-70°	112.1	8.2
70°-80°	51.0	3.7
80°-90°	13.4	1.0
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°	500.7	36.8
0°-40°	773.7	56.8
0°-60°	1184.6	87.0
0°-90°	1361.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1361.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	677	677	677	677	677	
5°	699	689	672	655	649	67
15°	712	688	634	591	577	201
25°	657	615	540	508	501	301
35°	511	476	412	402	413	318
45°	334	316	284	292	313	260
55°	212	194	182	197	210	190
65°	127	112	106	110	118	127
75°	62	53	43	39	40	65
85°	14	12	11	12	12	16
90°	0	0	0	0	0	

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



TEST NUMBER: P583932

CATALOG NUMBER: HCC8S15D010SL-HM80520930-81WWWB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7
2.5°	689.3	687.3	688.3	687.3	688.3	688.3	686.4	686.4	686.4	686.4	683.5
5°	698.9	697.9	697.9	697.0	696.0	697.0	696.0	695.0	693.1	692.2	689.3
7.5°	704.7	704.7	704.7	704.7	703.7	702.8	701.8	699.9	697.9	696.0	694.1
10°	710.3	711.3	710.3	709.4	708.4	706.5	705.6	703.7	700.8	697.9	696.0
12.5°	713.2	713.2	712.3	712.3	710.3	709.4	706.5	703.7	700.8	697.9	693.1
15°	712.3	712.3	711.3	710.3	707.5	706.5	704.7	701.8	697.0	693.1	688.3
17.5°	706.5	705.6	703.7	703.7	699.9	698.9	697.0	693.1	688.3	682.5	676.7
20°	694.1	694.1	693.1	692.2	688.3	685.4	683.5	678.7	674.8	668.1	662.4
22.5°	676.7	678.7	676.7	674.8	670.0	669.0	666.1	660.5	654.7	647.0	640.2
25°	656.6	655.6	654.7	652.7	648.9	647.0	643.1	637.3	631.5	622.9	615.3
27.5°	630.6	626.7	626.7	622.9	620.1	617.2	615.3	609.5	601.8	595.0	585.4
30°	595.0	596.0	591.2	590.2	585.4	583.5	579.6	573.9	567.2	559.5	551.8
32.5°	556.6	553.7	553.7	549.8	546.0	543.1	542.1	535.4	529.7	522.0	514.3
35°	511.4	511.4	508.5	507.5	503.7	501.8	498.9	495.0	488.4	481.6	475.9
37.5°	467.2	465.3	464.3	462.4	459.5	456.6	456.6	449.8	449.0	441.3	433.6
40°	418.1	420.1	418.1	415.2	414.3	412.4	411.4	407.5	404.8	398.0	393.2
42.5°	376.8	374.9	374.9	373.9	370.1	370.1	368.1	366.2	361.5	359.6	353.8
45°	334.5	336.4	333.5	334.5	330.7	330.7	330.7	326.8	322.9	320.2	316.3
47.5°	298.0	299.0	299.0	296.1	295.1	295.1	293.2	291.2	288.4	284.5	281.6
50°	266.3	267.3	265.3	264.4	262.4	261.5	261.5	257.6	255.7	251.8	249.9
52.5°	237.4	237.4	236.4	236.4	233.6	233.6	231.7	228.8	226.9	225.0	220.2
55°	211.5	211.5	210.5	209.5	209.5	206.7	205.7	202.8	200.9	197.0	194.1
57.5°	186.5	187.5	186.5	185.6	184.6	183.6	181.7	178.8	176.9	174.0	172.1
60°	166.3	166.3	165.3	164.4	162.4	161.5	160.5	158.6	155.7	153.8	150.9
62.5°	147.1	146.2	145.2	144.2	142.3	142.3	140.4	138.5	135.6	133.6	131.7
65°	126.9	126.9	125.9	125.9	125.0	123.0	122.1	121.1	117.2	116.3	112.4
67.5°	108.6	109.5	107.6	107.6	105.8	105.8	104.8	101.9	101.0	99.1	97.1
70°	92.3	92.3	92.3	91.3	89.4	88.4	87.5	85.6	84.6	82.7	80.7
72.5°	75.9	75.9	75.0	75.0	74.0	73.0	72.1	70.1	70.1	68.2	66.3
75°	61.6	61.6	60.6	59.6	58.7	58.7	57.7	56.8	54.8	53.9	52.9
77.5°	47.1	47.1	47.1	46.2	45.2	45.2	45.2	43.3	41.3	41.3	40.4
80°	34.6	34.6	33.6	33.6	32.7	32.7	32.7	31.7	30.7	29.8	28.8
82.5°	23.0	23.0	23.0	23.0	22.1	22.1	22.1	21.2	20.2	20.2	20.2
85°	13.5	13.5	13.5	13.5	12.5	12.5	12.5	12.5	12.5	11.6	11.6
87.5°	5.8	4.8	5.8	4.8	5.8	4.8	5.8	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: P583932

CATALOG NUMBER: HCC8S15D010SL-HM80520930-81WWWB

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7
2.5°	684.4	683.5	682.5	681.5	681.5	680.6	678.7	677.7	676.7	675.8	675.8
5°	688.3	687.3	685.4	683.5	682.5	680.6	678.7	676.7	674.8	671.9	670.9
7.5°	691.2	688.3	686.4	682.5	681.5	679.6	676.7	673.8	670.0	666.1	663.4
10°	691.2	687.3	684.4	679.6	677.7	675.8	671.9	667.1	662.4	658.5	653.7
12.5°	689.3	684.4	679.6	674.8	671.9	669.0	663.4	658.5	652.7	647.0	643.1
15°	682.5	676.7	670.9	665.2	662.4	658.5	652.7	646.0	640.2	634.4	627.7
17.5°	670.0	664.2	657.6	650.8	647.0	644.1	635.4	630.6	621.9	616.2	610.5
20°	653.7	647.0	638.3	631.5	626.7	623.8	617.2	608.5	601.8	593.1	587.3
22.5°	632.5	623.8	615.3	608.5	603.7	599.8	591.2	582.5	576.8	569.1	562.4
25°	607.6	598.9	590.2	580.6	575.9	572.0	564.3	556.6	548.9	540.2	534.5
27.5°	577.8	568.2	560.4	551.8	546.9	541.2	532.6	524.9	517.2	511.4	503.7
30°	545.0	534.5	526.8	518.2	513.3	508.5	499.8	492.2	485.5	478.7	474.9
32.5°	505.6	497.9	490.3	481.6	477.8	474.9	466.2	458.5	450.8	445.1	442.2
35°	468.1	459.5	452.7	445.1	440.3	437.4	429.7	423.0	419.1	412.4	408.5
37.5°	428.7	422.0	414.3	406.7	403.8	400.9	395.1	388.4	382.6	377.8	375.8
40°	387.4	381.6	374.9	370.1	367.2	364.3	359.6	354.8	350.9	346.1	344.1
42.5°	348.0	344.1	338.4	332.6	329.7	328.7	322.9	319.2	317.3	315.3	313.4
45°	312.5	306.7	302.8	299.0	296.1	294.1	291.2	288.4	286.4	284.5	282.6
47.5°	277.9	273.1	269.2	266.3	263.4	262.4	260.5	257.6	255.7	255.7	255.7
50°	246.1	242.2	238.3	236.4	235.5	233.6	231.7	230.8	229.8	229.8	229.8
52.5°	218.2	214.4	211.5	209.5	209.5	207.6	205.7	204.7	204.7	204.7	204.7
55°	192.3	189.4	187.5	185.6	183.6	182.7	182.7	182.7	181.7	181.7	182.7
57.5°	169.2	167.3	164.4	162.4	161.5	161.5	160.5	159.5	160.5	161.5	162.4
60°	148.1	146.2	145.2	142.3	142.3	142.3	141.3	141.3	141.3	142.3	143.3
62.5°	128.8	127.9	125.9	125.0	124.0	124.0	123.0	123.0	123.0	123.0	124.0
65°	111.5	109.5	107.6	107.6	107.6	106.8	106.8	104.8	105.8	105.8	104.8
67.5°	95.2	93.3	92.3	91.3	90.4	90.4	89.4	88.4	87.5	87.5	87.5
70°	79.8	77.8	77.8	75.9	75.9	75.0	74.0	74.0	73.0	72.1	71.1
72.5°	64.3	63.5	62.5	61.6	61.6	61.6	60.6	59.6	58.7	57.7	55.8
75°	51.0	51.0	49.0	48.1	48.1	47.1	46.2	45.2	44.2	43.3	42.3
77.5°	39.4	38.4	36.5	35.5	35.5	35.5	34.6	33.6	32.7	31.7	30.7
80°	28.8	27.8	26.9	25.9	25.9	25.9	24.9	24.9	24.0	24.0	24.0
82.5°	19.3	19.3	18.3	18.3	18.3	18.3	17.4	17.4	17.4	17.4	17.4
85°	11.6	11.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	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



TEST NUMBER: P583932

CATALOG NUMBER: HCC8S15D010SL-HM80520930-81WWWB

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7
2.5°	673.8	673.8	671.9	670.9	670.0	670.9	669.0	668.1	667.1	667.1	666.1
5°	668.1	667.1	663.4	662.4	661.4	660.5	658.5	656.6	654.7	653.7	652.7
7.5°	660.5	657.6	653.7	652.7	651.8	648.9	646.0	644.1	641.2	640.2	638.3
10°	649.9	646.0	643.1	640.2	638.3	635.4	632.5	629.6	625.8	624.8	621.9
12.5°	637.3	632.5	626.7	625.8	622.9	619.1	615.3	612.4	609.5	607.6	604.7
15°	621.9	617.2	611.4	608.5	605.6	602.7	597.9	594.1	591.2	588.3	585.4
17.5°	603.7	597.9	593.1	590.2	588.3	583.5	579.6	574.9	572.0	569.1	566.2
20°	581.5	576.8	570.1	567.2	566.2	562.4	557.6	555.6	551.8	548.9	546.9
22.5°	556.6	551.8	546.0	544.1	540.2	538.3	533.6	531.6	529.7	526.8	525.9
25°	528.8	523.9	519.1	518.2	515.3	513.3	510.4	507.5	507.5	504.7	504.7
27.5°	499.8	495.0	491.3	489.4	488.4	486.5	483.6	482.6	481.6	480.7	480.7
30°	469.1	463.3	461.4	460.4	459.5	457.5	456.6	454.6	455.6	456.6	455.6
32.5°	436.5	434.5	430.7	428.7	429.7	428.7	426.8	428.7	427.8	429.7	430.7
35°	404.8	402.8	400.9	400.9	399.0	399.0	399.0	399.9	401.9	402.8	404.8
37.5°	373.9	371.0	370.1	369.1	370.1	370.1	370.1	372.0	373.9	375.8	378.7
40°	341.3	339.3	339.3	339.3	339.3	342.2	341.3	343.2	345.1	348.0	350.9
42.5°	310.5	310.5	311.5	311.5	311.5	311.5	313.4	316.3	319.2	322.0	324.9
45°	281.6	281.6	281.6	283.5	283.5	284.5	288.4	290.3	292.2	295.1	298.0
47.5°	254.7	254.7	255.7	256.7	257.6	259.6	261.5	264.4	267.3	269.2	272.1
50°	229.8	230.8	232.7	234.6	234.6	235.5	238.3	240.3	242.2	245.1	246.1
52.5°	205.7	207.6	209.5	210.5	211.5	213.4	214.4	217.3	218.2	221.1	222.1
55°	183.6	184.6	187.5	188.5	188.5	190.4	192.3	194.1	197.0	197.0	198.9
57.5°	163.4	164.4	166.3	167.3	166.3	169.2	170.1	172.1	173.0	175.0	175.9
60°	143.3	145.2	146.2	146.2	147.1	148.1	149.9	149.9	151.8	153.8	153.8
62.5°	124.0	125.0	125.9	126.9	127.9	126.9	129.8	129.8	131.7	132.7	134.6
65°	105.8	106.8	106.8	107.6	107.6	108.6	108.6	109.5	110.5	112.4	113.4
67.5°	87.5	87.5	87.5	88.4	87.5	88.4	88.4	89.4	89.4	91.3	92.3
70°	71.1	70.1	69.2	69.2	69.2	69.2	68.2	69.2	69.2	70.1	70.1
72.5°	54.8	53.9	52.9	51.9	51.9	51.0	50.0	51.0	51.0	51.9	51.9
75°	41.3	39.4	39.4	39.4	38.4	38.4	38.4	39.4	39.4	39.4	40.4
77.5°	30.7	30.7	29.8	29.8	29.8	30.7	30.7	31.7	31.7	31.7	31.7
80°	23.0	24.0	24.0	24.0	24.0	24.9	24.9	24.9	24.9	25.9	25.9
82.5°	17.4	17.4	17.4	17.4	18.3	18.3	18.3	18.3	18.3	18.3	18.3
85°	10.6	11.6	11.6	10.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	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



TEST NUMBER: P583932

CATALOG NUMBER: HCC8S15D010SL-HM80520930-81WWWB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	676.7	676.7	676.7	676.7	676.7	676.7	676.7	676.7
2.5°	665.2	665.2	665.2	665.2	664.2	664.2	664.2	663.4
5°	650.8	650.8	650.8	648.9	649.9	649.9	647.9	648.9
7.5°	636.4	635.4	634.4	634.4	633.5	632.5	631.5	632.5
10°	620.1	617.2	617.2	616.2	616.2	614.3	614.3	615.3
12.5°	601.8	599.8	599.8	598.9	597.9	597.0	596.0	596.0
15°	583.5	581.5	580.6	579.6	578.6	576.8	577.8	576.8
17.5°	565.3	562.4	562.4	561.4	560.4	558.5	558.5	557.6
20°	544.1	543.1	541.2	542.1	541.2	539.2	538.3	538.3
22.5°	523.0	523.0	522.0	522.0	521.0	520.1	519.1	519.1
25°	502.7	501.8	502.7	502.7	499.8	499.8	499.8	500.8
27.5°	479.7	480.7	479.7	479.7	479.7	479.7	480.7	479.7
30°	456.6	456.6	456.6	457.5	459.5	458.5	458.5	457.5
32.5°	431.6	432.6	432.6	433.6	434.5	436.5	436.5	437.4
35°	406.7	408.5	409.5	408.5	411.4	411.4	413.3	413.3
37.5°	380.7	381.6	383.6	384.5	386.4	387.4	388.4	388.4
40°	352.8	356.7	357.6	358.6	361.5	361.5	362.5	364.3
42.5°	326.8	330.7	331.6	332.6	334.5	337.4	336.4	338.4
45°	301.9	304.7	305.7	306.7	309.6	310.5	310.5	313.4
47.5°	275.0	276.9	277.9	279.7	281.6	283.5	285.5	284.5
50°	248.0	250.9	252.8	253.8	256.7	257.6	258.6	259.6
52.5°	224.0	225.9	226.9	227.9	230.8	231.7	232.7	234.6
55°	200.9	201.8	203.8	202.8	205.7	206.7	207.6	209.5
57.5°	177.9	178.8	179.8	179.8	181.7	183.6	184.6	185.6
60°	155.7	157.6	158.6	158.6	158.6	160.5	160.5	160.5
62.5°	135.6	135.6	136.5	136.5	138.5	138.5	138.5	138.5
65°	114.4	115.3	116.3	116.3	118.2	117.2	119.2	118.2
67.5°	92.3	92.3	94.2	94.2	93.3	94.2	94.2	94.2
70°	70.1	70.1	71.1	71.1	71.1	71.1	71.1	71.1
72.5°	51.9	51.9	51.9	52.9	51.9	51.9	52.9	51.9
75°	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
77.5°	31.7	31.7	32.7	32.7	32.7	32.7	32.7	32.7
80°	25.9	25.9	25.9	25.9	26.9	25.9	25.9	25.9
82.5°	19.3	18.3	19.3	18.3	19.3	19.3	19.3	19.3
85°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
87.5°	4.8	4.8	4.8	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

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)