

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: P583923

Luminaire Tested: **HCC8S15D010MW-HM80520930-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583923
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: HCC8S15D010MW-HM80520930-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

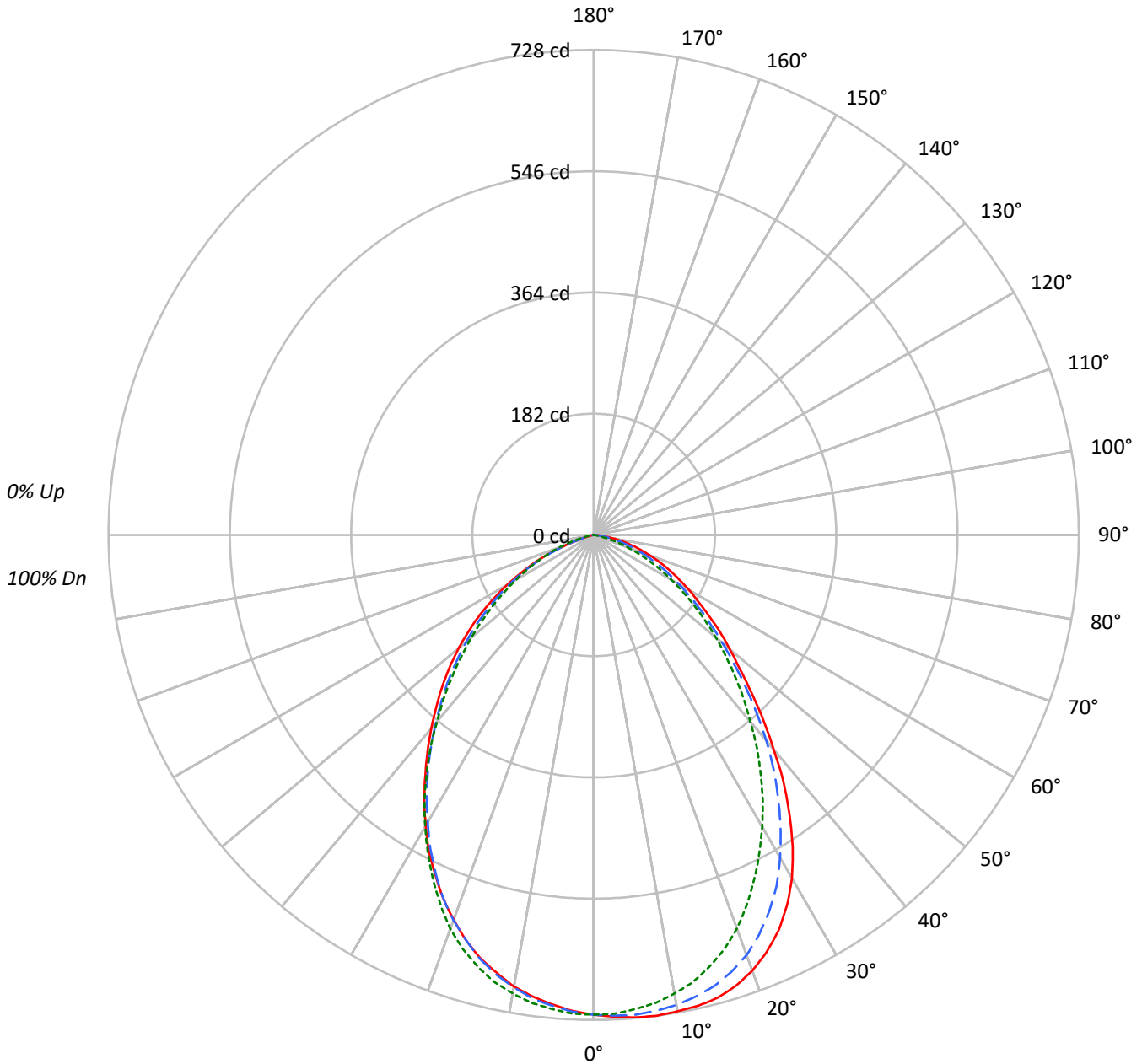
Lumens per Lamp: N/A
Luminaire Lumens: 1368.8 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): NR
Input Current (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: P583923
CATALOG NUMBER: HCC8S15D010MW-HM80520930-81RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P583923

CATALOG NUMBER: HCC8S15D010MW-HM80520930-81RWWC

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°	22208	22208	22208
5°	22504	22114	21906
10°	22733	21887	21558
15°	22963	21427	20996
20°	22843	20638	20162
25°	22313	19401	19139
30°	21190	18006	17939
35°	19293	16435	16579
40°	16915	14709	15252
45°	14592	13083	14003
50°	12775	11485	12684
55°	11322	9871	11166
60°	10201	8301	9251
65°	9186	6662	7085
70°	8060	4860	3904
75°	6875	2526	1037
80°	5292	693	178
85°	3397	0	0



TEST NUMBER: P583923
 CATALOG NUMBER: HCC8S15D010MW-HM80520930-81RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	5.0
10°-20°	191.0	14.0
20°-30°	271.1	19.8
30°-40°	285.4	20.8
40°-50°	242.8	17.7
50°-60°	175.5	12.8
60°-70°	99.8	7.3
70°-80°	31.5	2.3
80°-90°	3.8	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°	530.1	38.7
0°-40°	815.5	59.6
0°-60°	1233.7	90.1
0°-90°	1368.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1368.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	720	720	720	720	720	
5°	727	723	714	710	708	69
15°	719	701	671	659	658	203
25°	656	623	570	561	562	300
35°	512	483	437	434	440	319
45°	335	322	300	308	321	260
55°	211	195	184	194	208	190
65°	126	109	91	90	97	125
75°	58	44	21	10	9	62
85°	10	6	0	0	0	12
90°	0	0	0	0	0	



TEST NUMBER: P583923

CATALOG NUMBER: HCC8S15D010MW-HM80520930-81RWWC

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2
2.5°	724.1	725.0	723.1	723.1	725.0	723.1	724.1	724.1	723.1	723.1	722.2
5°	727.0	726.0	726.0	726.0	727.0	725.0	724.1	725.0	723.1	723.1	723.1
7.5°	727.9	727.9	727.0	726.0	726.0	726.0	725.0	724.1	723.1	721.2	720.2
10°	726.0	726.0	727.0	725.0	725.0	723.1	723.1	721.2	721.2	719.3	716.4
12.5°	724.1	723.1	723.1	721.2	721.2	719.3	719.3	716.4	715.4	712.5	709.6
15°	719.3	718.3	716.4	715.4	714.4	713.5	711.6	710.6	707.7	703.8	700.9
17.5°	709.6	708.7	707.7	705.8	703.8	702.9	701.9	699.0	695.2	692.3	687.6
20°	696.1	695.2	695.2	692.3	691.3	688.5	687.6	683.7	680.8	675.0	671.2
22.5°	677.9	678.9	677.0	675.0	673.1	670.2	668.3	664.4	659.6	653.8	649.0
25°	655.8	656.7	654.8	652.9	650.0	648.0	646.1	640.5	635.6	628.9	623.1
27.5°	627.9	627.9	627.9	626.0	621.2	620.2	618.3	612.5	605.8	600.0	594.2
30°	595.1	594.2	594.2	591.4	589.5	585.6	582.7	577.9	573.1	566.4	559.6
32.5°	555.7	556.7	553.8	551.9	549.0	549.0	545.3	541.4	535.6	528.9	522.1
35°	512.5	513.5	511.5	510.6	505.7	504.8	503.8	499.0	495.3	490.4	482.7
37.5°	468.3	467.3	466.3	466.3	463.4	461.5	459.6	456.7	451.0	447.2	443.3
40°	420.2	420.2	420.2	419.2	418.3	416.3	415.4	413.4	409.6	405.7	403.0
42.5°	376.9	376.9	376.0	375.0	373.1	374.0	372.1	370.2	366.3	363.4	361.5
45°	334.6	334.6	334.6	335.6	333.7	330.8	330.8	328.8	326.9	325.0	322.1
47.5°	297.2	300.0	298.1	297.2	298.1	294.3	294.3	292.3	290.4	288.5	284.6
50°	266.3	266.3	266.3	264.4	263.4	263.4	260.6	258.7	257.7	255.8	252.0
52.5°	238.5	236.5	236.5	235.6	234.6	232.7	232.7	230.8	226.9	225.0	222.1
55°	210.6	210.6	209.7	208.7	207.7	206.8	205.8	202.9	201.0	198.1	195.2
57.5°	185.6	187.5	186.5	184.6	182.7	182.7	180.8	178.8	175.9	173.0	170.1
60°	165.4	164.5	164.5	163.5	161.6	160.6	159.7	156.8	153.9	151.0	148.1
62.5°	144.2	144.2	144.2	142.3	140.4	139.4	138.5	136.5	132.7	129.8	127.9
65°	125.9	125.0	124.0	123.0	122.1	120.1	119.2	117.4	114.5	111.6	108.7
67.5°	107.7	106.8	106.8	105.8	102.9	101.9	101.9	99.1	96.2	93.3	90.4
70°	89.4	89.4	89.4	87.5	86.5	85.6	84.6	82.7	79.8	76.9	74.0
72.5°	74.0	73.0	73.0	72.1	69.3	68.3	67.4	65.4	62.5	60.6	58.7
75°	57.7	57.7	56.8	55.8	54.8	53.9	52.9	51.0	48.1	45.2	44.2
77.5°	44.2	43.3	43.3	42.3	40.4	39.4	39.4	37.5	34.6	32.7	30.7
80°	29.8	30.7	29.8	28.8	27.8	26.9	25.9	24.9	23.1	21.2	19.3
82.5°	18.3	19.3	18.3	18.3	17.4	16.4	16.4	14.5	13.5	12.5	11.6
85°	9.6	9.6	9.6	9.6	8.7	8.7	8.7	7.7	6.7	5.8	5.8
87.5°	2.9	3.9	2.9	2.9	2.9	2.9	2.9	2.9	1.9	1.9	1.9
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: P583923

CATALOG NUMBER: HCC8S15D010MW-HM80520930-81RWWC

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2
2.5°	723.1	722.2	721.2	721.2	721.2	721.2	721.2	720.2	719.3	719.3	719.3
5°	721.2	721.2	721.2	720.2	719.3	719.3	717.3	716.4	715.4	714.4	713.5
7.5°	719.3	717.3	716.4	715.4	714.4	714.4	712.5	710.6	710.6	708.7	706.7
10°	713.5	712.5	710.6	708.7	707.7	706.7	704.8	701.9	700.9	699.0	697.1
12.5°	706.7	704.8	702.9	699.0	698.1	697.1	693.2	690.3	688.5	687.6	682.8
15°	698.1	694.2	691.3	686.6	685.6	683.7	680.8	677.9	674.1	671.2	669.3
17.5°	682.8	678.9	674.1	669.3	667.3	667.3	662.5	658.7	653.8	651.9	648.0
20°	664.4	659.6	655.8	650.0	647.1	644.2	641.3	635.6	631.8	628.9	624.1
22.5°	643.2	636.6	631.8	626.0	621.2	618.3	613.5	608.6	603.8	600.9	597.1
25°	616.4	610.6	602.9	597.1	594.2	590.4	584.7	579.8	575.0	570.2	568.3
27.5°	586.6	578.9	572.1	565.4	562.5	559.6	552.9	547.1	543.3	538.5	536.6
30°	553.8	546.2	538.5	532.7	529.8	525.0	521.2	514.4	509.6	505.7	500.9
32.5°	516.3	510.6	503.8	495.3	493.3	489.5	483.7	480.8	475.0	472.1	468.3
35°	476.0	472.1	465.4	458.6	455.7	453.8	449.1	443.3	439.5	436.6	434.6
37.5°	437.5	432.7	426.0	421.1	419.2	416.3	410.5	407.7	403.8	402.0	398.1
40°	396.2	391.4	386.6	383.7	380.8	378.9	375.0	372.1	368.2	365.4	364.4
42.5°	355.8	352.9	349.1	345.2	344.3	341.4	339.4	336.6	333.7	332.7	329.8
45°	319.2	316.3	312.5	308.7	307.8	305.8	304.9	302.0	300.0	300.0	300.0
47.5°	282.7	279.8	275.9	274.0	275.0	271.1	271.1	270.2	268.2	268.2	269.2
50°	250.0	246.2	245.2	243.3	241.4	239.4	240.4	237.5	237.5	239.4	238.5
52.5°	219.2	215.3	214.4	212.6	211.6	211.6	210.6	210.6	209.7	210.6	210.6
55°	191.4	188.5	186.5	184.6	183.6	183.6	183.6	182.7	181.7	183.6	184.6
57.5°	166.3	165.4	163.5	160.6	159.7	158.7	157.7	157.7	157.7	157.7	158.7
60°	144.2	142.3	140.4	137.5	137.5	136.5	135.6	134.6	134.6	134.6	134.6
62.5°	125.0	122.1	119.2	117.4	116.4	115.4	114.5	112.5	112.5	112.5	112.5
65°	105.8	102.9	101.0	99.1	97.1	97.1	95.2	94.2	92.3	91.3	89.4
67.5°	87.5	85.6	83.6	80.7	79.8	78.8	76.9	75.9	73.0	72.1	71.2
70°	71.2	68.3	66.4	64.5	63.5	61.6	59.6	57.7	55.8	53.9	51.9
72.5°	55.8	52.9	51.0	49.0	47.1	47.1	44.2	42.3	39.4	37.5	34.6
75°	41.3	38.4	36.5	33.6	32.7	31.7	28.8	26.9	24.0	21.2	19.3
77.5°	27.8	25.9	24.0	21.2	19.3	19.3	16.4	14.5	12.5	9.6	8.7
80°	17.4	15.4	13.5	11.6	11.6	9.6	8.7	6.7	4.8	3.9	2.9
82.5°	9.6	8.7	7.7	5.8	5.8	4.8	3.9	2.9	1.9	1.0	1.0
85°	4.8	3.9	2.9	2.9	1.9	1.9	1.9	1.0	1.0	0.0	0.0
87.5°	1.9	1.0	1.0	1.0	1.0	1.0	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: P583923

CATALOG NUMBER: HCC8S15D010MW-HM80520930-81RWWC

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2
2.5°	718.3	718.3	717.3	717.3	717.3	716.4	717.3	716.4	716.4	716.4	717.3
5°	714.4	712.5	712.5	711.6	711.6	710.6	711.6	710.6	709.6	708.7	709.6
7.5°	706.7	704.8	703.8	702.9	702.9	702.9	701.9	700.9	701.9	699.0	700.9
10°	696.1	695.2	693.2	692.3	691.3	692.3	691.3	689.4	689.4	689.4	688.5
12.5°	682.8	680.8	679.9	678.9	677.0	677.0	677.9	676.0	676.0	674.1	674.1
15°	666.4	664.4	662.5	662.5	660.6	660.6	659.6	659.6	658.7	657.7	657.7
17.5°	646.1	643.2	641.3	642.3	641.3	640.5	640.5	638.5	637.6	638.5	638.5
20°	622.1	620.2	618.3	619.2	617.3	616.4	617.3	614.4	615.4	615.4	615.4
22.5°	595.1	594.2	591.4	591.4	589.5	588.5	589.5	589.5	590.4	589.5	589.5
25°	565.4	563.5	561.5	561.5	560.6	559.6	560.6	561.5	560.6	561.5	561.5
27.5°	533.7	530.8	530.8	528.9	528.9	529.8	528.9	529.8	530.8	530.8	532.7
30°	499.0	498.1	497.2	496.2	496.2	497.2	497.2	497.2	498.1	500.0	500.0
32.5°	466.3	464.4	462.5	462.5	464.4	463.4	464.4	464.4	466.3	466.3	468.3
35°	430.8	430.8	428.9	429.8	429.8	429.8	429.8	431.8	433.7	434.6	436.6
37.5°	398.1	395.2	396.2	396.2	397.2	396.2	399.1	399.1	401.0	401.0	403.0
40°	362.5	362.5	363.4	362.5	363.4	363.4	365.4	367.3	368.2	370.2	371.1
42.5°	328.8	330.8	328.8	329.8	330.8	331.7	332.7	333.7	337.5	339.4	342.3
45°	298.1	299.1	300.0	301.0	300.0	302.0	302.9	304.9	307.8	308.7	309.6
47.5°	268.2	269.2	270.2	271.1	271.1	273.1	274.0	275.9	277.9	278.8	279.8
50°	239.4	241.4	242.3	242.3	243.3	245.2	247.1	247.1	249.1	252.0	252.9
52.5°	213.5	213.5	215.3	216.3	217.3	217.3	220.2	221.1	222.1	224.0	225.9
55°	184.6	187.5	188.5	188.5	190.4	192.3	193.3	194.2	194.2	198.1	198.1
57.5°	159.7	160.6	162.6	162.6	162.6	165.4	165.4	167.3	168.2	169.2	171.1
60°	134.6	136.5	136.5	137.5	136.5	138.5	139.4	141.3	142.3	143.3	144.2
62.5°	111.6	111.6	112.5	112.5	112.5	112.5	114.5	114.5	116.4	117.4	118.3
65°	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	90.4	90.4	92.3
67.5°	69.3	68.3	66.4	67.4	66.4	66.4	65.4	65.4	66.4	66.4	68.3
70°	50.0	49.0	47.1	47.1	46.2	45.2	44.2	43.3	42.3	42.3	42.3
72.5°	32.7	30.7	27.8	26.9	26.9	24.9	23.1	22.2	22.2	22.2	22.2
75°	16.4	14.5	12.5	11.6	11.6	9.6	10.6	9.6	9.6	9.6	9.6
77.5°	6.7	4.8	3.9	3.9	3.9	2.9	2.9	2.9	2.9	2.9	2.9
80°	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	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: P583923

CATALOG NUMBER: HCC8S15D010MW-HM80520930-81RWWC

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2
2.5°	716.4	716.4	714.4	715.4	715.4	715.4	715.4	715.4
5°	707.7	708.7	707.7	708.7	708.7	707.7	707.7	707.7
7.5°	699.0	700.0	699.0	700.0	700.0	700.0	699.0	699.0
10°	688.5	688.5	688.5	688.5	688.5	687.6	688.5	688.5
12.5°	674.1	674.1	674.1	675.0	675.0	674.1	674.1	673.1
15°	658.7	656.7	657.7	658.7	657.7	657.7	657.7	657.7
17.5°	637.6	638.5	637.6	637.6	637.6	637.6	638.5	637.6
20°	615.4	615.4	616.4	615.4	615.4	615.4	615.4	614.4
22.5°	590.4	589.5	589.5	590.4	590.4	589.5	590.4	590.4
25°	562.5	563.5	562.5	562.5	563.5	563.5	563.5	562.5
27.5°	532.7	533.7	534.7	533.7	533.7	533.7	534.7	535.6
30°	501.9	503.8	501.9	501.9	503.8	502.8	503.8	503.8
32.5°	469.2	472.1	470.2	472.1	472.1	473.1	472.1	473.1
35°	436.6	439.5	439.5	439.5	440.4	441.4	441.4	440.4
37.5°	405.7	406.7	406.7	408.6	409.6	410.5	410.5	409.6
40°	374.0	376.0	376.9	376.9	376.9	378.9	380.8	378.9
42.5°	343.3	344.3	345.2	345.2	347.2	348.1	349.1	349.1
45°	313.4	315.3	316.3	317.3	318.2	320.2	319.2	321.1
47.5°	282.7	285.6	286.5	287.5	289.4	290.4	291.4	292.3
50°	254.9	256.8	256.8	258.7	261.5	261.5	263.4	264.4
52.5°	226.9	227.9	228.8	229.8	231.7	233.6	233.6	235.6
55°	200.0	201.0	201.0	202.0	202.9	206.8	207.7	207.7
57.5°	172.1	172.1	174.0	175.0	175.9	177.9	177.9	177.9
60°	145.2	146.2	146.2	147.1	148.1	150.0	151.0	150.0
62.5°	118.3	119.2	119.2	120.1	122.1	123.0	122.1	122.1
65°	93.3	94.2	94.2	95.2	97.1	97.1	96.2	97.1
67.5°	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
70°	43.3	42.3	41.3	42.3	42.3	42.3	41.3	43.3
72.5°	21.2	22.2	22.2	22.2	22.2	22.2	22.2	21.2
75°	9.6	9.6	8.7	8.7	8.7	9.6	9.6	8.7
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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)