

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: P583753

Luminaire Tested: **HCC8W10D010BZ-HM80520840-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583753
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: HCC8W10D010BZ-HM80520840-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

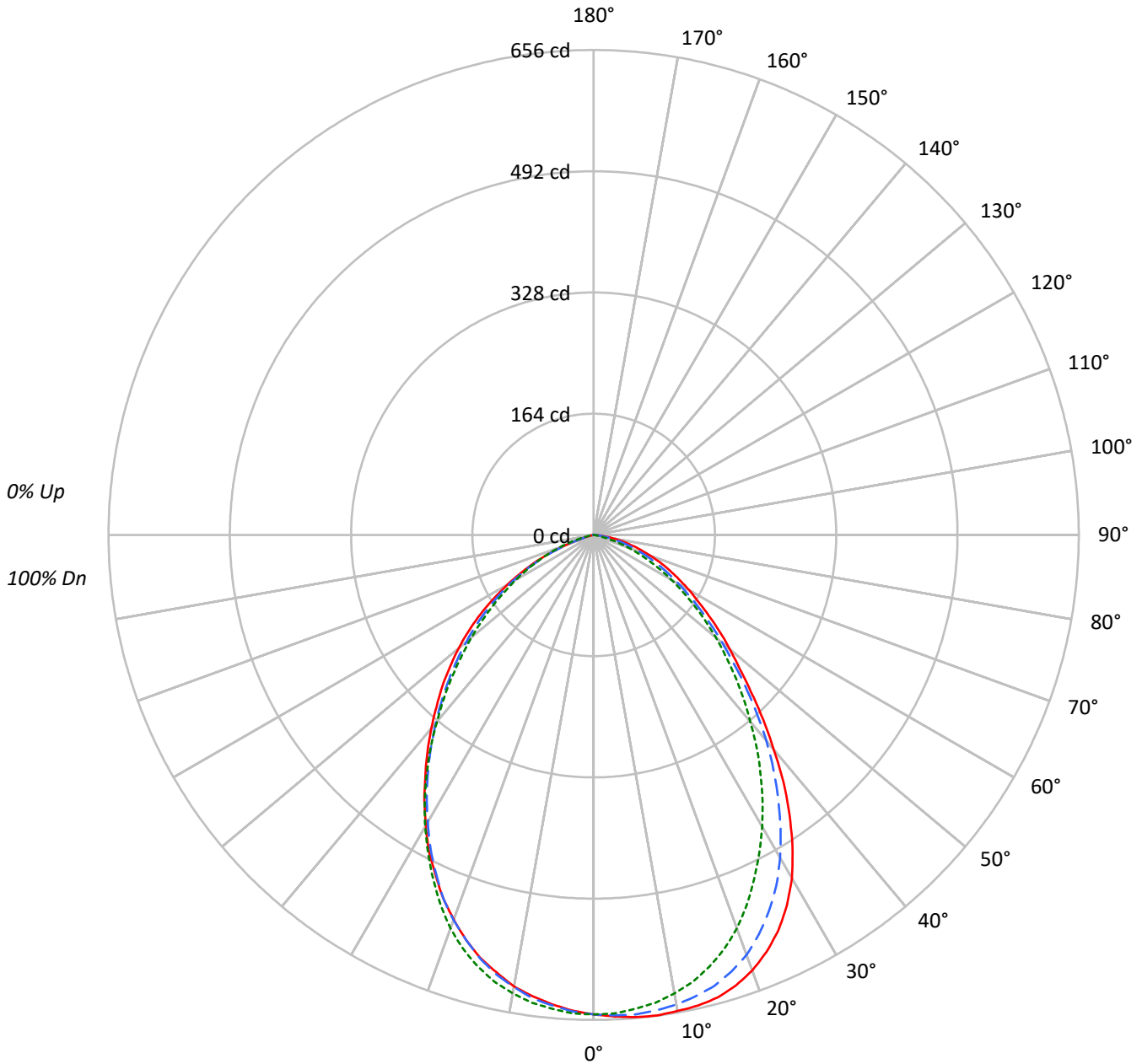
Lumens per Lamp: N/A
Luminaire Lumens: 1232.8 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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: P583753
CATALOG NUMBER: HCC8W10D010BZ-HM80520840-81RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P583753

CATALOG NUMBER: HCC8W10D010BZ-HM80520840-81RWWC

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	85	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°	20000	20000	20000
5°	20266	19916	19730
10°	20475	19714	19417
15°	20680	19298	18909
20°	20575	18587	18160
25°	20098	17471	17237
30°	19089	16222	16158
35°	17377	14802	14933
40°	15232	13248	13735
45°	13139	11783	12612
50°	11509	10343	11422
55°	10199	8892	10053
60°	9183	7481	8332
65°	8282	5998	6384
70°	7258	4364	3507
75°	6183	2276	929
80°	4759	622	142
85°	3078	0	0



TEST NUMBER: P583753

CATALOG NUMBER: HCC8W10D010BZ-HM80520840-81RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	5.0
10°-20°	172.0	14.0
20°-30°	244.2	19.8
30°-40°	257.0	20.9
40°-50°	218.7	17.7
50°-60°	158.0	12.8
60°-70°	89.9	7.3
70°-80°	28.3	2.3
80°-90°	3.4	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°	477.4	38.7
0°-40°	734.5	59.6
0°-60°	1111.1	90.1
0°-90°	1232.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1232.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	649	649	649	649	649	
5°	655	651	643	639	637	62
15°	648	631	604	593	592	182
25°	591	561	514	505	507	271
35°	462	435	393	390	397	287
45°	301	290	270	277	289	234
55°	190	176	165	175	187	171
65°	114	98	82	81	88	113
75°	52	40	19	9	8	56
85°	9	5	0	0	0	11
90°	0	0	0	0	0	

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



TEST NUMBER: P583753

CATALOG NUMBER: HCC8W10D010BZ-HM80520840-81RWWC

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	648.6	648.6	648.6	648.6	648.6	648.6	648.6	648.6	648.6	648.6	648.6
2.5°	652.1	652.9	651.2	651.2	652.9	651.2	652.1	652.1	651.2	651.2	650.4
5°	654.7	653.9	653.9	653.9	654.7	652.9	652.1	652.9	651.2	651.2	651.2
7.5°	655.6	655.6	654.7	653.9	653.9	653.9	652.9	652.1	651.2	649.4	648.6
10°	653.9	653.9	654.7	652.9	652.9	651.2	651.2	649.4	649.4	647.8	645.1
12.5°	652.1	651.2	651.2	649.4	649.4	647.8	647.8	645.1	644.3	641.7	639.1
15°	647.8	646.9	645.1	644.3	643.4	642.6	640.8	639.9	637.4	633.9	631.3
17.5°	639.1	638.3	637.4	635.6	633.9	633.1	632.1	629.6	626.1	623.5	619.2
20°	627.0	626.1	626.1	623.5	622.6	620.1	619.2	615.8	613.1	608.0	604.5
22.5°	610.5	611.3	609.7	608.0	606.2	603.6	601.8	598.4	594.0	588.9	584.5
25°	590.7	591.5	589.7	588.0	585.4	583.7	582.0	576.7	572.4	566.4	561.2
27.5°	565.5	565.5	565.5	563.7	559.4	558.6	556.9	551.6	545.6	540.4	535.1
30°	536.1	535.1	535.1	532.6	530.8	527.4	524.8	520.5	516.1	510.1	504.0
32.5°	500.5	501.5	498.8	497.0	494.5	494.5	491.0	487.5	482.4	476.4	470.2
35°	461.6	462.4	460.7	459.9	455.6	454.6	453.8	449.4	445.9	441.6	434.8
37.5°	421.8	420.8	420.0	420.0	417.5	415.7	414.0	411.3	406.2	402.7	399.2
40°	378.4	378.4	378.4	377.5	376.7	375.0	374.1	372.4	368.9	365.4	362.9
42.5°	339.4	339.4	338.6	337.8	336.0	336.9	335.1	333.4	329.9	327.3	325.6
45°	301.3	301.3	301.3	302.2	300.5	297.9	297.9	296.2	294.5	292.7	290.2
47.5°	267.6	270.2	268.4	267.6	268.4	265.0	265.0	263.2	261.6	259.8	256.4
50°	239.9	239.9	239.9	238.1	237.3	237.3	234.6	232.9	232.1	230.3	226.9
52.5°	214.8	213.0	213.0	212.2	211.3	209.6	209.6	207.8	204.3	202.7	200.0
55°	189.7	189.7	188.8	187.9	187.0	186.2	185.3	182.7	181.0	178.4	175.9
57.5°	167.2	168.9	168.0	166.2	164.6	164.6	162.8	161.1	158.4	155.9	153.3
60°	148.9	148.1	148.1	147.2	145.4	144.6	143.8	141.1	138.6	135.9	133.4
62.5°	129.9	129.9	129.9	128.1	126.5	125.6	124.6	123.0	119.5	117.0	115.2
65°	113.5	112.6	111.7	110.8	110.0	108.3	107.3	105.7	103.0	100.5	97.8
67.5°	97.0	96.2	96.2	95.3	92.7	91.8	91.8	89.2	86.5	84.0	81.4
70°	80.5	80.5	80.5	78.9	77.9	77.0	76.2	74.5	71.9	69.2	66.7
72.5°	66.7	65.9	65.9	64.9	62.4	61.5	60.6	58.9	56.3	54.6	52.8
75°	51.9	51.9	51.1	50.2	49.4	48.4	47.6	45.9	43.3	40.7	39.8
77.5°	39.8	38.9	38.9	38.1	36.4	35.5	35.5	33.8	31.1	29.4	27.8
80°	26.8	27.8	26.8	26.0	25.1	24.3	23.4	22.5	20.8	19.1	17.3
82.5°	16.5	17.3	16.5	16.5	15.6	14.7	14.7	13.0	12.1	11.3	10.3
85°	8.7	8.7	8.7	8.7	7.8	7.8	7.8	7.0	6.0	5.2	5.2
87.5°	2.6	3.5	2.6	2.6	2.6	2.6	2.6	2.6	1.7	1.7	1.7
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: P583753

CATALOG NUMBER: HCC8W10D010BZ-HM80520840-81RWWC

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	648.6	648.6	648.6	648.6	648.6	648.6	648.6	648.6	648.6	648.6	648.6
2.5°	651.2	650.4	649.4	649.4	649.4	649.4	649.4	648.6	647.8	647.8	647.8
5°	649.4	649.4	649.4	648.6	647.8	647.8	646.1	645.1	644.3	643.4	642.6
7.5°	647.8	646.1	645.1	644.3	643.4	643.4	641.7	639.9	639.9	638.3	636.5
10°	642.6	641.7	639.9	638.3	637.4	636.5	634.8	632.1	631.3	629.6	627.8
12.5°	636.5	634.8	633.1	629.6	628.8	627.8	624.4	621.8	620.1	619.2	614.8
15°	628.8	625.3	622.6	618.3	617.5	615.8	613.1	610.5	607.0	604.5	602.7
17.5°	614.8	611.3	607.0	602.7	601.0	601.0	596.7	593.2	588.9	587.2	583.7
20°	598.4	594.0	590.7	585.4	582.8	580.2	577.7	572.4	568.9	566.4	562.1
22.5°	579.4	573.2	568.9	563.7	559.4	556.9	552.6	548.2	543.9	541.3	537.8
25°	555.1	549.9	542.9	537.8	535.1	531.8	526.5	522.1	517.8	513.5	511.8
27.5°	528.3	521.3	515.3	509.2	506.6	504.0	498.0	492.7	489.3	485.0	483.2
30°	498.8	491.9	485.0	479.7	477.2	472.9	469.4	463.3	458.9	455.6	451.2
32.5°	465.1	459.9	453.8	445.9	444.3	440.8	435.6	433.0	427.8	425.1	421.8
35°	428.6	425.1	419.1	413.1	410.5	408.8	404.5	399.2	395.8	393.2	391.5
37.5°	394.0	389.7	383.7	379.4	377.5	375.0	369.7	367.2	363.7	362.0	358.6
40°	356.8	352.4	348.1	345.6	342.9	341.2	337.8	335.1	331.6	329.1	328.3
42.5°	320.5	317.8	314.3	310.8	310.0	307.5	305.7	303.1	300.5	299.7	297.0
45°	287.5	284.9	281.5	278.0	277.1	275.4	274.5	271.9	270.2	270.2	270.2
47.5°	254.6	252.1	248.6	246.8	247.7	244.2	244.2	243.4	241.6	241.6	242.4
50°	225.1	221.6	220.8	219.1	217.3	215.6	216.5	214.0	214.0	215.6	214.8
52.5°	197.5	194.0	193.2	191.4	190.5	190.5	189.7	189.7	188.8	189.7	189.7
55°	172.4	169.7	168.0	166.2	165.4	165.4	165.4	164.6	163.7	165.4	166.2
57.5°	149.8	148.9	147.2	144.6	143.8	142.9	142.1	142.1	142.1	142.1	142.9
60°	129.9	128.1	126.5	123.8	123.8	123.0	122.1	121.3	121.3	121.3	121.3
62.5°	112.6	110.0	107.3	105.7	104.8	104.0	103.0	101.3	101.3	101.3	101.3
65°	95.3	92.7	90.9	89.2	87.5	87.5	85.7	84.9	83.2	82.2	80.5
67.5°	78.9	77.0	75.4	72.7	71.9	71.0	69.2	68.4	65.9	64.9	64.1
70°	64.1	61.5	59.7	58.1	57.2	55.4	53.7	51.9	50.2	48.4	46.8
72.5°	50.2	47.6	45.9	44.1	42.4	42.4	39.8	38.1	35.5	33.8	31.1
75°	37.3	34.6	32.9	30.3	29.4	28.6	26.0	24.3	21.6	19.1	17.3
77.5°	25.1	23.4	21.6	19.1	17.3	17.3	14.7	13.0	11.3	8.7	7.8
80°	15.6	13.8	12.1	10.3	10.3	8.7	7.8	6.0	4.3	3.5	2.6
82.5°	8.7	7.8	7.0	5.2	5.2	4.3	3.5	2.6	1.7	0.8	0.8
85°	4.3	3.5	2.6	2.6	1.7	1.7	1.7	0.8	0.8	0.0	0.0
87.5°	1.7	0.8	0.8	0.8	0.8	0.8	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



TEST NUMBER: P583753

CATALOG NUMBER: HCC8W10D010BZ-HM80520840-81RWWC

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	648.6	648.6	648.6	648.6	648.6	648.6	648.6	648.6	648.6	648.6	648.6
2.5°	646.9	646.9	646.1	646.1	646.1	645.1	646.1	645.1	645.1	645.1	646.1
5°	643.4	641.7	641.7	640.8	640.8	639.9	640.8	639.9	639.1	638.3	639.1
7.5°	636.5	634.8	633.9	633.1	633.1	633.1	632.1	631.3	632.1	629.6	631.3
10°	627.0	626.1	624.4	623.5	622.6	623.5	622.6	621.0	621.0	621.0	620.1
12.5°	614.8	613.1	612.3	611.3	609.7	609.7	610.5	608.8	608.8	607.0	607.0
15°	600.2	598.4	596.7	596.7	595.0	595.0	594.0	594.0	593.2	592.3	592.3
17.5°	582.0	579.4	577.7	578.5	577.7	576.7	576.7	575.0	574.2	575.0	575.0
20°	560.3	558.6	556.9	557.7	555.9	555.1	555.9	553.4	554.2	554.2	554.2
22.5°	536.1	535.1	532.6	532.6	530.8	530.0	530.8	530.8	531.8	530.8	530.8
25°	509.2	507.5	505.8	505.8	504.8	504.0	504.8	505.8	504.8	505.8	505.8
27.5°	480.7	478.0	478.0	476.4	476.4	477.2	476.4	477.2	478.0	478.0	479.7
30°	449.4	448.6	447.7	446.9	446.9	447.7	447.7	447.7	448.6	450.3	450.3
32.5°	420.0	418.3	416.5	416.5	418.3	417.5	418.3	418.3	420.0	420.0	421.8
35°	388.0	388.0	386.2	387.0	387.0	387.0	387.0	388.8	390.5	391.5	393.2
37.5°	358.6	355.9	356.8	356.8	357.7	356.8	359.4	359.4	361.1	361.1	362.9
40°	326.5	326.5	327.3	326.5	327.3	327.3	329.1	330.8	331.6	333.4	334.3
42.5°	296.2	297.9	296.2	297.0	297.9	298.8	299.7	300.5	304.0	305.7	308.3
45°	268.4	269.4	270.2	271.1	270.2	271.9	272.7	274.5	277.1	278.0	278.9
47.5°	241.6	242.4	243.4	244.2	244.2	245.9	246.8	248.6	250.3	251.1	252.1
50°	215.6	217.3	218.3	218.3	219.1	220.8	222.6	222.6	224.3	226.9	227.8
52.5°	192.2	192.2	194.0	194.8	195.7	195.7	198.3	199.2	200.0	201.8	203.5
55°	166.2	168.9	169.7	169.7	171.5	173.2	174.0	174.9	174.9	178.4	178.4
57.5°	143.8	144.6	146.4	146.4	146.4	148.9	148.9	150.7	151.6	152.4	154.1
60°	121.3	123.0	123.0	123.8	123.0	124.6	125.6	127.3	128.1	129.0	129.9
62.5°	100.5	100.5	101.3	101.3	101.3	101.3	103.0	103.0	104.8	105.7	106.5
65°	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	81.4	81.4	83.2
67.5°	62.4	61.5	59.7	60.6	59.7	59.7	58.9	58.9	59.7	59.7	61.5
70°	45.1	44.1	42.4	42.4	41.6	40.7	39.8	38.9	38.1	38.1	38.1
72.5°	29.4	27.8	25.1	24.3	24.3	22.5	20.8	20.0	20.0	20.0	20.0
75°	14.7	13.0	11.3	10.3	10.3	8.7	9.5	8.7	8.7	8.7	8.7
77.5°	6.0	4.3	3.5	3.5	3.5	2.6	2.6	2.6	2.6	2.6	2.6
80°	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	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: P583753

CATALOG NUMBER: HCC8W10D010BZ-HM80520840-81RWWC

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	648.6	648.6	648.6	648.6	648.6	648.6	648.6	648.6
2.5°	645.1	645.1	643.4	644.3	644.3	644.3	644.3	644.3
5°	637.4	638.3	637.4	638.3	638.3	637.4	637.4	637.4
7.5°	629.6	630.4	629.6	630.4	630.4	630.4	629.6	629.6
10°	620.1	620.1	620.1	620.1	620.1	619.2	620.1	620.1
12.5°	607.0	607.0	607.0	608.0	608.0	607.0	607.0	606.2
15°	593.2	591.5	592.3	593.2	592.3	592.3	592.3	592.3
17.5°	574.2	575.0	574.2	574.2	574.2	574.2	575.0	574.2
20°	554.2	554.2	555.1	554.2	554.2	554.2	554.2	553.4
22.5°	531.8	530.8	530.8	531.8	531.8	530.8	531.8	531.8
25°	506.6	507.5	506.6	506.6	507.5	507.5	507.5	506.6
27.5°	479.7	480.7	481.5	480.7	480.7	480.7	481.5	482.4
30°	452.1	453.8	452.1	452.1	453.8	452.9	453.8	453.8
32.5°	422.6	425.1	423.5	425.1	425.1	426.1	425.1	426.1
35°	393.2	395.8	395.8	395.8	396.7	397.5	397.5	396.7
37.5°	365.4	366.4	366.4	368.1	368.9	369.7	369.7	368.9
40°	336.9	338.6	339.4	339.4	339.4	341.2	342.9	341.2
42.5°	309.2	310.0	310.8	310.8	312.6	313.5	314.3	314.3
45°	282.3	284.0	284.9	285.8	286.7	288.4	287.5	289.2
47.5°	254.6	257.2	258.1	258.9	260.7	261.6	262.4	263.2
50°	229.5	231.3	231.3	232.9	235.6	235.6	237.3	238.1
52.5°	204.3	205.3	206.1	207.0	208.7	210.5	210.5	212.2
55°	180.2	181.0	181.0	181.9	182.7	186.2	187.0	187.0
57.5°	155.1	155.1	156.7	157.6	158.4	160.2	160.2	160.2
60°	130.8	131.6	131.6	132.5	133.4	135.1	135.9	135.1
62.5°	106.5	107.3	107.3	108.3	110.0	110.8	110.0	110.0
65°	84.0	84.9	84.9	85.7	87.5	87.5	86.5	87.5
67.5°	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
70°	38.9	38.1	37.3	38.1	38.1	38.1	37.3	38.9
72.5°	19.1	20.0	20.0	20.0	20.0	20.0	20.0	19.1
75°	8.7	8.7	7.8	7.8	7.8	8.7	8.7	7.8
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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)