

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: P583881

Luminaire Tested: **HCC8W15D010BZ-HM80520835-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583881
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: HCC8W15D010BZ-HM80520835-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

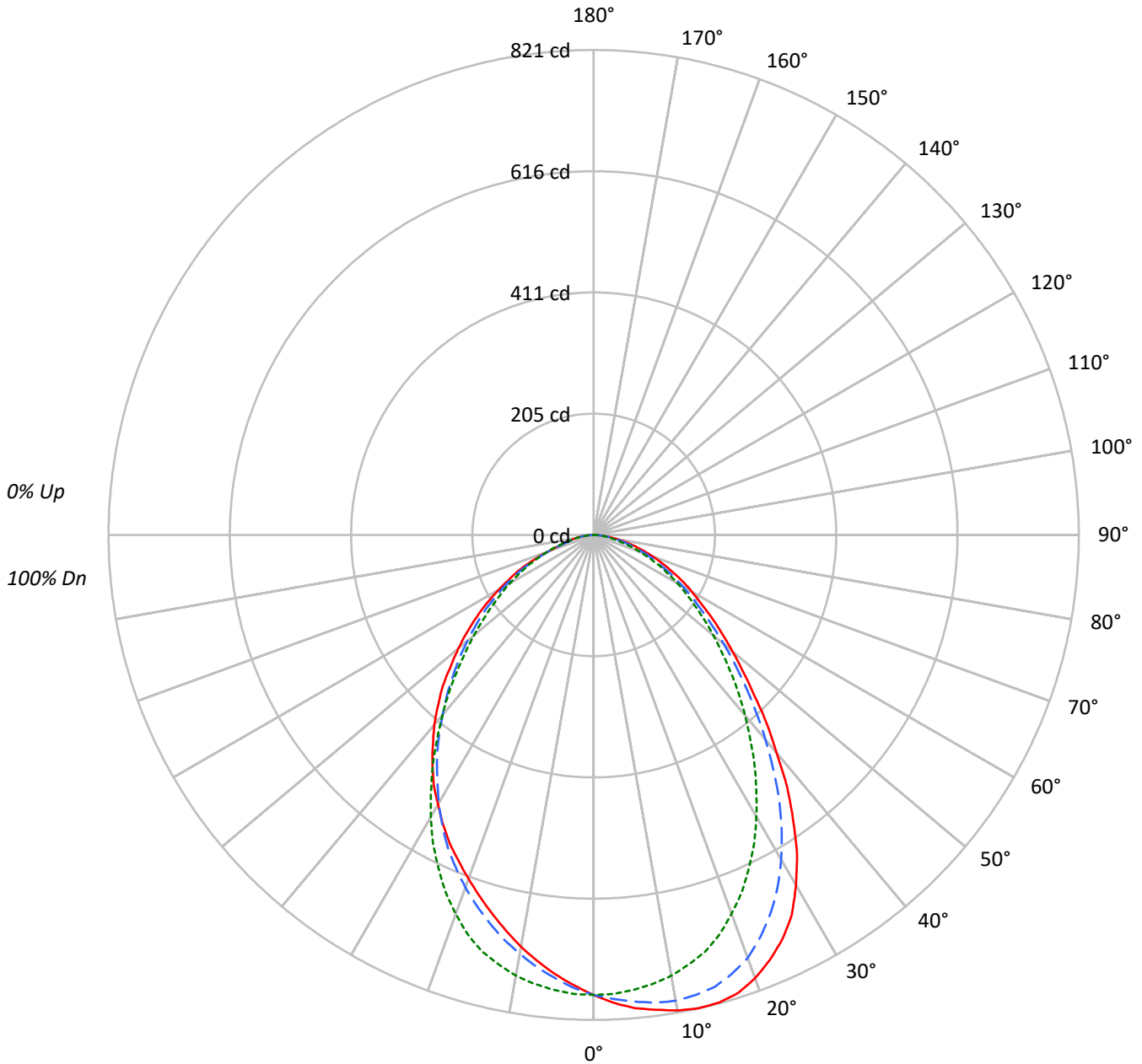
Lumens per Lamp: N/A
Luminaire Lumens: 1566.2 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): NR
Input Current (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: P583881
CATALOG NUMBER: HCC8W15D010BZ-HM80520835-81WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P583881

CATALOG NUMBER: HCC8W15D010BZ-HM80520835-81WWWB

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°	24015	24015	24015
5°	24893	23934	23110
10°	25598	23725	22166
15°	26165	23308	21188
20°	26210	22396	20329
25°	25705	21153	19611
30°	24380	19612	18750
35°	22154	17862	17904
40°	19370	16033	16874
45°	16790	14278	15730
50°	14699	12684	14329
55°	13086	11242	12962
60°	11804	10102	11391
65°	10653	8880	9923
70°	9575	7474	7375
75°	8447	5933	5540
80°	7068	4901	5310
85°	5484	4316	4706



TEST NUMBER: P583881
 CATALOG NUMBER: HCC8W15D010BZ-HM80520835-81WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	4.7
10°-20°	206.9	13.2
20°-30°	295.7	18.9
30°-40°	314.2	20.1
40°-50°	270.5	17.3
50°-60°	202.3	12.9
60°-70°	129.0	8.2
70°-80°	58.7	3.7
80°-90°	15.4	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°	576.1	36.8
0°-40°	890.3	56.8
0°-60°	1363.1	87.0
0°-90°	1566.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1566.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	779	779	779	779	779	
5°	804	793	773	753	747	77
15°	820	792	730	680	664	231
25°	756	708	622	584	576	346
35°	588	548	474	462	476	366
45°	385	364	327	336	361	299
55°	243	223	209	227	241	219
65°	146	129	122	127	136	146
75°	71	61	50	45	46	75
85°	16	13	12	13	13	19
90°	0	0	0	0	0	

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



TEST NUMBER: P583881

CATALOG NUMBER: HCC8W15D010BZ-HM80520835-81WWWB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	778.8	778.8	778.8	778.8	778.8	778.8	778.8	778.8	778.8	778.8	778.8
2.5°	793.1	790.8	792.0	790.8	792.0	792.0	789.8	789.8	789.8	789.8	786.5
5°	804.2	803.0	803.0	801.9	800.8	801.9	800.8	799.8	797.6	796.4	793.1
7.5°	810.8	810.8	810.8	810.8	809.8	808.6	807.5	805.3	803.0	800.8	798.7
10°	817.5	818.6	817.5	816.4	815.2	813.0	811.9	809.8	806.4	803.0	800.8
12.5°	820.7	820.7	819.6	819.6	817.5	816.4	813.0	809.8	806.4	803.0	797.6
15°	819.6	819.6	818.6	817.5	814.1	813.0	810.8	807.5	801.9	797.6	792.0
17.5°	813.0	811.9	809.8	809.8	805.3	804.2	801.9	797.6	792.0	785.4	778.8
20°	798.7	798.7	797.6	796.4	792.0	788.7	786.5	781.0	776.5	768.8	762.2
22.5°	778.8	781.0	778.8	776.5	771.0	769.9	766.6	759.9	753.2	744.4	736.7
25°	755.5	754.5	753.2	751.1	746.6	744.4	740.0	733.4	726.7	716.7	707.9
27.5°	725.7	721.2	721.2	716.7	713.5	710.1	707.9	701.3	692.4	684.7	673.6
30°	684.7	685.8	680.3	679.1	673.6	671.4	667.0	660.3	652.6	643.8	634.9
32.5°	640.5	637.2	637.2	632.7	628.3	625.0	623.8	616.1	609.5	600.7	591.8
35°	588.5	588.5	585.1	584.1	579.6	577.4	574.1	569.7	561.9	554.2	547.6
37.5°	537.6	535.4	534.3	532.0	528.8	525.4	525.4	517.7	516.6	507.7	498.9
40°	481.2	483.4	481.2	477.9	476.7	474.5	473.4	469.0	465.7	457.9	452.5
42.5°	433.6	431.4	431.4	430.3	425.8	425.8	423.7	421.4	416.0	413.7	407.0
45°	385.0	387.2	383.8	385.0	380.5	380.5	380.5	376.1	371.6	368.4	363.9
47.5°	342.9	344.0	344.0	340.7	339.6	339.6	337.4	335.1	331.9	327.4	324.1
50°	306.4	307.5	305.3	304.1	302.0	300.9	300.9	296.4	294.3	289.8	287.6
52.5°	273.2	273.2	272.1	272.1	268.8	268.8	266.5	263.3	261.0	258.8	253.3
55°	243.4	243.4	242.2	241.1	241.1	237.9	236.7	233.4	231.2	226.8	223.4
57.5°	214.6	215.7	214.6	213.5	212.4	211.2	209.1	205.7	203.5	200.3	198.0
60°	191.4	191.4	190.3	189.2	186.9	185.8	184.7	182.6	179.2	177.0	173.6
62.5°	169.2	168.1	167.0	165.9	163.8	163.8	161.5	159.3	155.9	153.8	151.6
65°	146.0	146.0	145.0	145.0	143.8	141.6	140.5	139.4	135.0	133.9	129.4
67.5°	125.0	126.0	123.9	123.9	121.7	121.7	120.6	117.2	116.2	114.0	111.7
70°	106.2	106.2	106.2	105.1	102.9	101.8	100.6	98.4	97.4	95.1	92.9
72.5°	87.4	87.4	86.3	86.3	85.2	84.1	82.9	80.7	80.7	78.6	76.3
75°	70.9	70.9	69.6	68.6	67.5	67.5	66.4	65.3	63.0	61.9	60.9
77.5°	54.2	54.2	54.2	53.1	51.9	51.9	51.9	49.8	47.6	47.6	46.5
80°	39.8	39.8	38.7	38.7	37.6	37.6	37.6	36.5	35.4	34.3	33.1
82.5°	26.5	26.5	26.5	26.5	25.4	25.4	25.4	24.3	23.3	23.3	23.3
85°	15.5	15.5	15.5	15.5	14.3	14.3	14.3	14.3	14.3	13.3	13.3
87.5°	6.6	5.5	6.6	5.5	6.6	5.5	6.6	5.5	5.5	5.5	5.5
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: P583881

CATALOG NUMBER: HCC8W15D010BZ-HM80520835-81WWWB

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	778.8	778.8	778.8	778.8	778.8	778.8	778.8	778.8	778.8	778.8	778.8
2.5°	787.6	786.5	785.4	784.2	784.2	783.1	781.0	779.9	778.8	777.6	777.6
5°	792.0	790.8	788.7	786.5	785.4	783.1	781.0	778.8	776.5	773.2	772.0
7.5°	795.3	792.0	789.8	785.4	784.2	782.0	778.8	775.4	771.0	766.6	763.2
10°	795.3	790.8	787.6	782.0	779.9	777.6	773.2	767.7	762.2	757.7	752.2
12.5°	793.1	787.6	782.0	776.5	773.2	769.9	763.2	757.7	751.1	744.4	740.0
15°	785.4	778.8	772.0	765.4	762.2	757.7	751.1	743.4	736.7	730.1	722.3
17.5°	771.0	764.3	756.6	748.9	744.4	741.1	731.2	725.7	715.6	709.0	702.4
20°	752.2	744.4	734.4	726.7	721.2	717.9	710.1	700.2	692.4	682.5	675.9
22.5°	727.8	717.9	707.9	700.2	694.7	690.2	680.3	670.3	663.7	654.8	647.1
25°	699.1	689.1	679.1	668.2	662.6	658.2	649.3	640.5	631.7	621.7	615.0
27.5°	664.8	653.7	644.9	634.9	629.4	622.7	612.9	603.9	595.1	588.5	579.6
30°	627.2	615.0	606.1	596.2	590.7	585.1	575.1	566.4	558.6	550.8	546.5
32.5°	581.9	573.0	564.2	554.2	549.7	546.5	536.5	527.7	518.8	512.1	508.9
35°	538.8	528.8	521.0	512.1	506.6	503.3	494.4	486.7	482.2	474.5	470.1
37.5°	493.3	485.6	476.7	467.9	464.5	461.3	454.6	446.9	440.3	434.8	432.5
40°	445.7	439.1	431.4	425.8	422.6	419.2	413.7	408.1	403.8	398.3	396.0
42.5°	400.4	396.0	389.3	382.7	379.5	378.2	371.6	367.3	365.0	362.8	360.7
45°	359.5	352.8	348.5	344.0	340.7	338.5	335.1	331.9	329.7	327.4	325.2
47.5°	319.7	314.1	309.7	306.4	303.1	302.0	299.8	296.4	294.3	294.3	294.3
50°	283.2	278.7	274.4	272.1	271.0	268.8	266.5	265.5	264.4	264.4	264.4
52.5°	251.1	246.7	243.4	241.1	241.1	239.0	236.7	235.6	235.6	235.6	235.6
55°	221.2	217.9	215.7	213.5	211.2	210.2	210.2	210.2	209.1	209.1	210.2
57.5°	194.7	192.4	189.2	186.9	185.8	185.8	184.7	183.6	184.7	185.8	186.9
60°	170.4	168.1	167.0	163.8	163.8	163.8	162.6	162.6	162.6	163.8	164.8
62.5°	148.2	147.1	145.0	143.8	142.7	142.7	141.6	141.6	141.6	141.6	142.7
65°	128.3	126.0	123.9	123.9	123.9	122.8	122.8	120.6	121.7	121.7	120.6
67.5°	109.5	107.2	106.2	105.1	104.0	104.0	102.9	101.8	100.6	100.6	100.6
70°	91.8	89.7	89.7	87.4	87.4	86.3	85.2	85.2	84.1	82.9	81.8
72.5°	74.1	73.0	71.9	70.9	70.9	70.9	69.6	68.6	67.5	66.4	64.1
75°	58.7	58.7	56.4	55.3	55.3	54.2	53.1	51.9	50.9	49.8	48.7
77.5°	45.3	44.2	42.1	41.0	41.0	41.0	39.8	38.7	37.6	36.5	35.4
80°	33.1	32.1	31.0	29.9	29.9	29.9	28.8	28.8	27.6	27.6	27.6
82.5°	22.2	22.2	21.0	21.0	21.0	21.0	19.9	19.9	19.9	19.9	19.9
85°	13.3	13.3	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
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: P583881

CATALOG NUMBER: HCC8W15D010BZ-HM80520835-81WWWB

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	778.8	778.8	778.8	778.8	778.8	778.8	778.8	778.8	778.8	778.8	778.8
2.5°	775.4	775.4	773.2	772.0	771.0	772.0	769.9	768.8	767.7	767.7	766.6
5°	768.8	767.7	763.2	762.2	761.1	759.9	757.7	755.5	753.2	752.2	751.1
7.5°	759.9	756.6	752.2	751.1	750.0	746.6	743.4	741.1	737.8	736.7	734.4
10°	747.7	743.4	740.0	736.7	734.4	731.2	727.8	724.6	720.1	719.0	715.6
12.5°	733.4	727.8	721.2	720.1	716.7	712.4	707.9	704.6	701.3	699.1	695.8
15°	715.6	710.1	703.5	700.2	696.9	693.6	688.1	683.6	680.3	677.0	673.6
17.5°	694.7	688.1	682.5	679.1	677.0	671.4	667.0	661.4	658.2	654.8	651.5
20°	669.3	663.7	656.0	652.6	651.5	647.1	641.5	639.4	634.9	631.7	629.4
22.5°	640.5	634.9	628.3	626.1	621.7	619.5	613.9	611.7	609.5	606.1	605.0
25°	608.4	602.9	597.3	596.2	592.9	590.7	587.3	584.1	584.1	580.7	580.7
27.5°	575.1	569.7	565.3	563.0	561.9	559.7	556.3	555.3	554.2	553.1	553.1
30°	539.8	533.2	530.9	529.8	528.8	526.6	525.4	523.2	524.3	525.4	524.3
32.5°	502.2	500.0	495.6	493.3	494.4	493.3	491.2	493.3	492.2	494.4	495.6
35°	465.7	463.4	461.3	461.3	459.1	459.1	459.1	460.2	462.4	463.4	465.7
37.5°	430.3	426.9	425.8	424.8	425.8	425.8	425.8	428.1	430.3	432.5	435.8
40°	392.7	390.4	390.4	390.4	390.4	393.8	392.7	394.9	397.2	400.4	403.8
42.5°	357.3	357.3	358.4	358.4	358.4	358.4	360.7	363.9	367.3	370.5	373.9
45°	324.1	324.1	324.1	326.3	326.3	327.4	331.9	334.0	336.3	339.6	342.9
47.5°	293.2	293.2	294.3	295.3	296.4	298.7	300.9	304.1	307.5	309.7	313.1
50°	264.4	265.5	267.6	269.9	269.9	271.0	274.4	276.5	278.7	282.1	283.2
52.5°	236.7	239.0	241.1	242.2	243.4	245.6	246.7	250.0	251.1	254.4	255.6
55°	211.2	212.4	215.7	216.8	216.8	219.1	221.2	223.4	226.8	226.8	229.0
57.5°	188.1	189.2	191.4	192.4	191.4	194.7	195.8	198.0	199.1	201.4	202.4
60°	164.8	167.0	168.1	168.1	169.2	170.4	172.6	172.6	174.7	177.0	177.0
62.5°	142.7	143.8	145.0	146.0	147.1	146.0	149.3	149.3	151.6	152.7	154.8
65°	121.7	122.8	122.8	123.9	123.9	125.0	125.0	126.0	127.2	129.4	130.5
67.5°	100.6	100.6	100.6	101.8	100.6	101.8	101.8	102.9	102.9	105.1	106.2
70°	81.8	80.7	79.7	79.7	79.7	79.7	78.6	79.7	79.7	80.7	80.7
72.5°	63.0	61.9	60.9	59.8	59.8	58.7	57.5	58.7	58.7	59.8	59.8
75°	47.6	45.3	45.3	45.3	44.2	44.2	44.2	45.3	45.3	45.3	46.5
77.5°	35.4	35.4	34.3	34.3	34.3	35.4	35.4	36.5	36.5	36.5	36.5
80°	26.5	27.6	27.6	27.6	27.6	28.8	28.8	28.8	28.8	29.9	29.9
82.5°	19.9	19.9	19.9	19.9	21.0	21.0	21.0	21.0	21.0	21.0	21.0
85°	12.2	13.3	13.3	12.2	13.3	13.3	13.3	13.3	13.3	13.3	13.3
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
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: P583881

CATALOG NUMBER: HCC8W15D010BZ-HM80520835-81WWWB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	778.8	778.8	778.8	778.8	778.8	778.8	778.8	778.8
2.5°	765.4	765.4	765.4	765.4	764.3	764.3	764.3	763.2
5°	748.9	748.9	748.9	746.6	747.7	747.7	745.5	746.6
7.5°	732.3	731.2	730.1	730.1	728.9	727.8	726.7	727.8
10°	713.5	710.1	710.1	709.0	709.0	706.9	706.9	707.9
12.5°	692.4	690.2	690.2	689.1	688.1	687.0	685.8	685.8
15°	671.4	669.3	668.2	667.0	665.9	663.7	664.8	663.7
17.5°	650.5	647.1	647.1	646.0	644.9	642.6	642.6	641.5
20°	626.1	625.0	622.7	623.8	622.7	620.6	619.5	619.5
22.5°	601.8	601.8	600.7	600.7	599.5	598.4	597.3	597.3
25°	578.5	577.4	578.5	578.5	575.1	575.1	575.1	576.4
27.5°	552.0	553.1	552.0	552.0	552.0	552.0	553.1	552.0
30°	525.4	525.4	525.4	526.6	528.8	527.7	527.7	526.6
32.5°	496.7	497.8	497.8	498.9	500.0	502.2	502.2	503.3
35°	467.9	470.1	471.3	470.1	473.4	473.4	475.6	475.6
37.5°	438.0	439.1	441.4	442.5	444.6	445.7	446.9	446.9
40°	406.0	410.4	411.5	412.6	416.0	416.0	417.1	419.2
42.5°	376.1	380.5	381.6	382.7	385.0	388.3	387.2	389.3
45°	347.3	350.7	351.7	352.8	356.2	357.3	357.3	360.7
47.5°	316.3	318.6	319.7	321.9	324.1	326.3	328.5	327.4
50°	285.3	288.7	290.9	292.0	295.3	296.4	297.5	298.7
52.5°	257.7	259.9	261.0	262.2	265.5	266.5	267.6	269.9
55°	231.2	232.3	234.5	233.4	236.7	237.9	239.0	241.1
57.5°	204.6	205.7	206.9	206.9	209.1	211.2	212.4	213.5
60°	179.2	181.4	182.6	182.6	182.6	184.7	184.7	184.7
62.5°	155.9	155.9	157.1	157.1	159.3	159.3	159.3	159.3
65°	131.6	132.8	133.9	133.9	136.0	135.0	137.1	136.0
67.5°	106.2	106.2	108.4	108.4	107.2	108.4	108.4	108.4
70°	80.7	80.7	81.8	81.8	81.8	81.8	81.8	81.8
72.5°	59.8	59.8	59.8	60.9	59.8	59.8	60.9	59.8
75°	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
77.5°	36.5	36.5	37.6	37.6	37.6	37.6	37.6	37.6
80°	29.9	29.9	29.9	29.9	31.0	29.9	29.9	29.9
82.5°	22.2	21.0	22.2	21.0	22.2	22.2	22.2	22.2
85°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
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)