

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: P583964

Luminaire Tested: **HCC8W15D010BZ-HM80520940-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583964
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: HCC8W15D010BZ-HM80520940-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

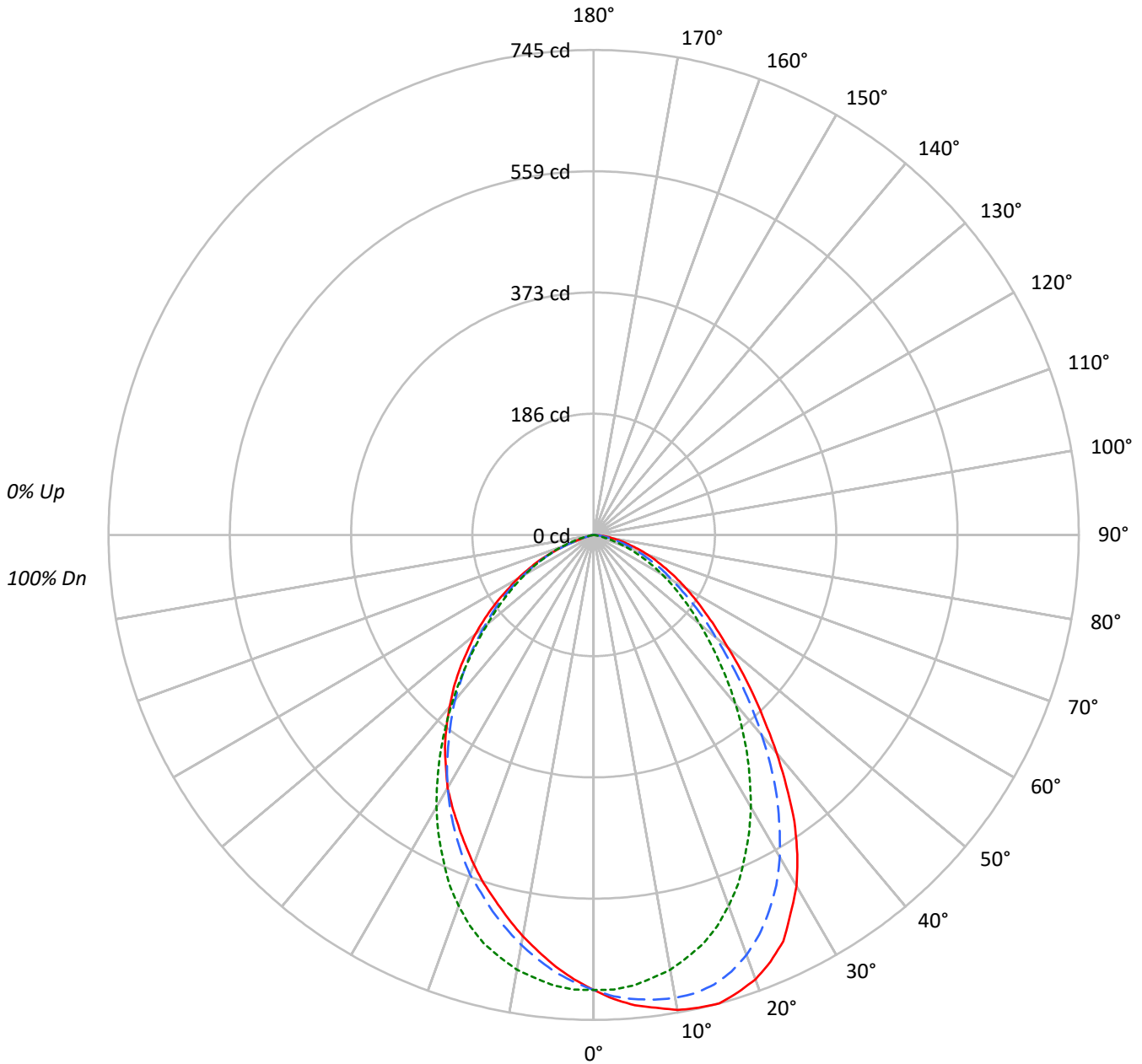
Lumens per Lamp: N/A
Luminaire Lumens: 1302.4 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P583964
CATALOG NUMBER: HCC8W15D010BZ-HM80520940-81WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P583964

CATALOG NUMBER: HCC8W15D010BZ-HM80520940-81WWBB

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°	21558	21558	21558
5°	22451	21513	20609
10°	23202	21239	19601
15°	23790	20754	18583
20°	23837	19893	17664
25°	23436	18635	16747
30°	22179	17191	15966
35°	20222	15464	14994
40°	17583	13630	13843
45°	15089	11801	12668
50°	12885	10180	11384
55°	11290	8763	9892
60°	10053	7475	8313
65°	8924	6100	6640
70°	7916	4517	3769
75°	6600	2371	1120
80°	5203	746	195
85°	3715	389	0



TEST NUMBER: P583964
 CATALOG NUMBER: HCC8W15D010BZ-HM80520940-81WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	5.1
10°-20°	184.7	14.2
20°-30°	261.4	20.1
30°-40°	273.4	21.0
40°-50°	228.1	17.5
50°-60°	161.7	12.4
60°-70°	93.1	7.2
70°-80°	30.0	2.3
80°-90°	4.1	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°	511.9	39.3
0°-40°	785.3	60.3
0°-60°	1175.1	90.2
0°-90°	1302.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1302.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	699	699	699	699	699	
5°	725	716	695	674	666	70
15°	745	715	650	599	582	210
25°	689	638	548	504	492	314
35°	537	490	411	389	398	333
45°	346	318	271	274	290	268
55°	210	188	163	171	184	190
65°	122	102	84	84	91	122
75°	55	41	20	9	9	60
85°	10	5	1	0	0	13
90°	0	0	0	0	0	



TEST NUMBER: P583964

CATALOG NUMBER: HCC8W15D010BZ-HM80520940-81WWBB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1
2.5°	713.8	712.8	711.8	712.8	711.8	712.8	711.8	711.8	710.7	709.6	709.6
5°	725.3	724.3	724.3	724.3	723.2	722.2	722.2	721.2	719.0	718.1	715.9
7.5°	732.6	733.7	733.7	733.7	731.6	731.6	729.5	727.5	725.3	723.2	720.1
10°	741.0	741.0	740.0	738.9	736.9	735.8	734.7	732.6	729.5	725.3	722.2
12.5°	744.1	744.1	743.1	741.0	740.0	738.9	737.8	734.7	730.6	725.3	721.2
15°	745.2	743.1	742.0	741.0	738.9	735.8	735.8	731.6	726.4	720.1	714.9
17.5°	736.9	737.8	735.8	733.7	730.6	728.4	725.3	722.2	715.9	708.7	703.4
20°	726.4	725.3	724.3	721.2	717.0	715.9	712.8	707.6	702.3	694.0	686.6
22.5°	709.6	708.7	706.5	704.4	700.2	698.2	695.0	688.8	681.4	673.1	664.7
25°	688.8	686.6	683.5	679.4	676.2	674.1	670.0	663.7	655.3	645.9	637.6
27.5°	655.3	658.4	656.4	650.1	647.0	642.7	641.7	633.3	626.0	616.6	607.2
30°	622.9	622.9	619.7	616.6	611.4	608.3	604.1	597.8	590.4	579.0	571.7
32.5°	582.1	581.1	577.0	575.9	571.7	565.4	564.4	556.0	548.6	540.3	530.9
35°	537.2	535.1	530.9	527.8	525.7	522.6	519.5	512.1	504.8	496.5	490.2
37.5°	486.0	486.0	484.9	479.7	477.7	475.5	472.4	465.1	460.9	452.6	446.3
40°	436.8	435.8	432.7	431.6	429.6	426.4	424.3	420.2	413.9	407.7	401.4
42.5°	388.7	389.8	385.6	386.7	382.5	380.4	379.3	373.1	369.9	363.7	358.5
45°	346.0	344.9	342.8	341.7	339.7	337.5	335.5	332.3	327.2	320.9	317.8
47.5°	306.2	303.1	303.1	302.1	301.0	296.8	295.8	292.7	289.6	283.2	279.1
50°	268.6	268.6	268.6	267.5	264.4	263.4	261.2	258.1	255.0	250.9	244.6
52.5°	238.3	238.3	238.3	237.3	233.0	232.0	231.0	226.8	222.6	219.4	215.3
55°	210.0	211.1	210.0	208.0	204.8	204.8	201.7	199.7	195.5	192.3	188.1
57.5°	186.1	186.1	184.0	182.9	180.8	179.8	177.6	175.6	170.4	167.3	162.0
60°	163.0	162.0	162.0	159.9	157.9	155.7	154.7	151.6	149.4	144.2	140.0
62.5°	142.2	142.2	140.0	140.0	135.9	135.9	134.8	131.7	128.6	123.3	121.2
65°	122.3	122.3	121.2	120.1	117.0	116.0	115.0	111.8	108.7	105.6	102.4
67.5°	104.5	104.5	102.4	101.3	99.3	98.2	96.2	94.1	91.0	87.8	84.7
70°	87.8	86.8	85.7	84.7	82.5	81.6	79.4	77.4	74.2	72.1	68.9
72.5°	71.1	71.1	70.0	68.0	66.9	65.8	64.8	62.7	59.5	56.4	54.3
75°	55.4	55.4	55.4	53.3	51.2	50.1	50.1	48.1	46.0	42.9	40.7
77.5°	42.9	41.8	40.7	40.7	38.7	37.6	36.6	35.5	32.4	31.3	29.3
80°	29.3	30.4	29.3	28.2	27.2	26.1	26.1	24.0	23.0	20.8	18.8
82.5°	19.9	18.8	18.8	17.7	17.7	16.7	16.7	14.6	13.6	12.5	11.4
85°	10.5	10.5	9.4	9.4	9.4	8.3	8.3	7.4	7.4	6.3	5.2
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.0	2.0	2.0
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: P583964

CATALOG NUMBER: HCC8W15D010BZ-HM80520940-81WWBB

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1
2.5°	708.7	706.5	705.4	705.4	704.4	703.4	702.3	701.3	699.1	699.1	697.1
5°	713.8	711.8	710.7	707.6	705.4	705.4	701.3	700.2	697.1	695.0	692.9
7.5°	718.1	713.8	710.7	707.6	705.4	703.4	699.1	695.0	690.8	686.6	684.6
10°	718.1	713.8	708.7	703.4	701.3	699.1	694.0	687.7	682.5	678.3	673.1
12.5°	715.9	709.6	703.4	699.1	695.0	691.9	685.6	679.4	673.1	664.7	660.6
15°	709.6	701.3	695.0	687.7	684.6	679.4	674.1	664.7	657.4	650.1	644.8
17.5°	697.1	686.6	679.4	672.0	666.8	663.7	655.3	647.0	638.5	630.2	623.9
20°	678.3	668.9	660.6	651.1	647.0	642.7	632.3	623.9	615.6	606.2	599.8
22.5°	655.3	645.9	634.4	627.1	620.8	615.6	606.2	596.7	588.4	580.1	571.7
25°	627.1	617.7	607.2	595.8	591.5	586.4	575.9	566.5	557.1	547.7	540.3
27.5°	596.7	584.2	575.9	563.3	559.1	553.9	542.4	532.0	523.6	516.3	507.9
30°	560.2	550.8	539.2	527.8	523.6	518.4	509.0	499.6	491.2	482.8	474.5
32.5°	520.4	511.0	499.6	491.2	484.9	480.8	471.4	463.0	454.6	446.3	439.0
35°	478.6	468.3	459.8	451.5	446.3	441.0	431.6	424.3	418.0	410.8	403.4
37.5°	435.8	428.5	420.2	410.8	405.5	401.4	394.0	385.6	380.4	374.2	369.0
40°	394.0	385.6	378.4	369.9	365.8	362.7	355.4	349.1	343.9	338.6	335.5
42.5°	351.1	343.9	336.6	331.3	328.1	325.0	319.8	312.5	309.3	304.1	301.0
45°	311.5	305.2	299.9	292.7	290.5	288.5	282.2	276.9	273.8	270.6	268.6
47.5°	273.8	269.7	263.4	259.2	256.1	254.0	249.8	245.6	242.4	240.4	238.3
50°	241.5	236.2	232.0	227.9	225.7	222.6	218.5	216.3	214.2	212.2	212.2
52.5°	211.1	205.9	201.7	198.6	196.5	194.4	191.2	190.3	188.1	188.1	187.1
55°	182.9	179.8	175.6	171.4	170.4	169.3	167.3	165.1	164.1	163.0	164.1
57.5°	158.8	155.7	151.6	148.5	147.4	146.3	145.3	143.2	142.2	142.2	142.2
60°	136.9	133.8	130.6	127.5	127.5	125.4	124.4	123.3	122.3	121.2	121.2
62.5°	117.0	113.9	110.7	108.7	107.6	106.6	104.5	103.5	102.4	102.4	101.3
65°	99.3	95.1	94.1	91.0	89.9	88.8	87.8	85.7	84.7	83.6	82.5
67.5°	81.6	79.4	76.3	74.2	73.1	72.1	71.1	68.9	68.0	66.9	64.8
70°	65.8	63.7	61.7	59.5	58.6	57.5	55.4	53.3	52.3	50.1	47.0
72.5°	51.2	49.2	47.0	44.9	43.9	42.9	40.7	38.7	36.6	34.5	32.4
75°	38.7	36.6	33.5	31.3	30.4	30.4	27.2	25.1	23.0	19.9	17.7
77.5°	27.2	24.0	23.0	20.8	19.9	17.7	15.7	13.6	11.4	10.5	8.3
80°	17.7	15.7	13.6	12.5	11.4	10.5	9.4	7.4	5.2	4.2	3.1
82.5°	10.5	9.4	8.3	7.4	6.3	5.2	4.2	4.2	3.1	2.0	1.1
85°	5.2	4.2	3.1	3.1	2.0	2.0	2.0	1.1	1.1	1.1	1.1
87.5°	2.0	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: P583964

CATALOG NUMBER: HCC8W15D010BZ-HM80520940-81WWBB

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1
2.5°	696.0	695.0	694.0	692.9	692.9	690.8	690.8	689.7	687.7	686.6	686.6
5°	689.7	686.6	684.6	683.5	682.5	679.4	678.3	676.2	674.1	672.0	670.9
7.5°	680.3	675.2	673.1	672.0	668.9	665.8	663.7	660.6	657.4	654.3	653.2
10°	668.9	663.7	658.4	656.4	653.2	651.1	647.0	642.7	639.6	636.5	633.3
12.5°	654.3	647.9	642.7	640.7	637.6	633.3	627.1	625.0	619.7	617.7	613.5
15°	637.6	630.2	625.0	621.9	618.8	612.5	608.3	604.1	598.9	596.7	592.6
17.5°	616.6	608.3	603.1	599.8	597.8	592.6	586.4	581.1	575.9	573.8	570.7
20°	591.5	586.4	579.0	575.9	573.8	567.6	561.3	559.1	555.0	550.8	547.7
22.5°	563.3	558.2	550.8	547.7	546.6	541.4	536.1	533.0	529.8	526.7	523.6
25°	534.1	527.8	521.5	519.5	517.3	513.2	509.0	506.9	503.8	501.6	499.6
27.5°	502.7	496.5	491.2	488.0	486.0	482.8	480.8	478.6	476.6	474.5	473.4
30°	469.2	463.0	458.9	456.7	454.6	453.6	450.4	449.5	448.4	446.3	447.3
32.5°	435.8	430.5	426.4	423.3	423.3	421.1	420.2	420.2	419.1	419.1	419.1
35°	399.2	396.1	393.0	391.9	390.9	389.8	388.7	389.8	388.7	389.8	390.9
37.5°	365.8	362.7	360.5	359.6	358.5	359.6	358.5	358.5	359.6	361.6	362.7
40°	331.3	329.2	327.2	328.1	327.2	327.2	327.2	330.3	331.3	332.3	333.4
42.5°	299.0	296.8	295.8	295.8	296.8	295.8	297.9	299.0	301.0	304.1	306.2
45°	267.5	266.5	266.5	267.5	266.5	268.6	268.6	270.6	273.8	275.9	278.0
47.5°	238.3	238.3	238.3	239.3	239.3	240.4	242.4	243.5	245.6	247.7	249.8
50°	211.1	212.2	213.2	213.2	213.2	215.3	217.4	218.5	219.4	220.5	223.6
52.5°	187.1	188.1	188.1	189.2	190.3	191.2	192.3	194.4	195.5	197.5	198.6
55°	164.1	164.1	166.2	167.3	167.3	167.3	169.3	169.3	171.4	172.4	174.5
57.5°	142.2	143.2	143.2	144.2	144.2	145.3	146.3	147.4	148.5	149.4	150.5
60°	121.2	121.2	121.2	122.3	123.3	124.4	123.3	125.4	125.4	127.5	128.6
62.5°	101.3	102.4	102.4	102.4	102.4	102.4	102.4	103.5	104.5	105.6	106.6
65°	82.5	82.5	82.5	81.6	82.5	81.6	82.5	83.6	83.6	84.7	85.7
67.5°	63.7	63.7	61.7	61.7	62.7	62.7	62.7	62.7	61.7	63.7	63.7
70°	46.0	44.9	43.9	42.9	42.9	41.8	41.8	40.7	40.7	40.7	40.7
72.5°	30.4	28.2	26.1	25.1	24.0	24.0	21.9	20.8	21.9	21.9	21.9
75°	15.7	13.6	12.5	11.4	10.5	10.5	9.4	9.4	9.4	9.4	9.4
77.5°	6.3	5.2	4.2	4.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1
80°	2.0	2.0	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



TEST NUMBER: P583964

CATALOG NUMBER: HCC8W15D010BZ-HM80520940-81WWBB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	699.1	699.1	699.1	699.1	699.1	699.1	699.1	699.1
2.5°	685.6	685.6	684.6	685.6	683.5	684.6	683.5	683.5
5°	670.0	667.8	667.8	667.8	666.8	666.8	665.8	665.8
7.5°	651.1	650.1	649.0	647.9	647.0	645.9	645.9	645.9
10°	632.3	630.2	630.2	629.1	627.1	626.0	626.0	626.0
12.5°	610.3	609.4	608.3	608.3	604.1	605.2	604.1	604.1
15°	589.5	588.4	588.4	585.3	583.2	583.2	583.2	582.1
17.5°	567.6	566.5	565.4	563.3	561.3	561.3	560.2	561.3
20°	544.5	543.5	541.4	541.4	540.3	539.2	537.2	538.3
22.5°	521.5	519.5	518.4	518.4	517.3	517.3	515.3	515.3
25°	497.5	496.5	495.4	496.5	494.3	494.3	492.2	492.2
27.5°	472.4	471.4	471.4	471.4	470.3	471.4	470.3	470.3
30°	447.3	447.3	446.3	446.3	447.3	446.3	447.3	448.4
32.5°	420.2	420.2	421.1	421.1	422.2	422.2	422.2	422.2
35°	391.9	394.0	394.0	395.1	396.1	397.2	397.2	398.3
37.5°	365.8	366.8	367.9	369.0	371.0	371.0	371.0	371.0
40°	337.5	338.6	340.8	339.7	343.9	344.9	343.9	343.9
42.5°	308.4	310.4	311.5	313.5	314.6	316.7	317.8	317.8
45°	281.1	282.2	284.3	286.3	287.4	290.5	290.5	290.5
47.5°	252.9	255.0	256.1	258.1	259.2	262.3	263.4	262.3
50°	225.7	227.9	229.9	229.9	233.0	234.1	236.2	237.3
52.5°	199.7	200.6	202.8	203.8	205.9	208.0	209.1	210.0
55°	174.5	175.6	177.6	177.6	180.8	181.8	184.0	184.0
57.5°	151.6	152.6	154.7	153.6	155.7	157.9	157.9	156.8
60°	129.5	129.5	129.5	131.7	132.8	133.8	134.8	134.8
62.5°	106.6	108.7	109.8	109.8	110.7	111.8	111.8	110.7
65°	85.7	87.8	88.8	88.8	89.9	89.9	89.9	91.0
67.5°	64.8	64.8	64.8	65.8	64.8	64.8	64.8	64.8
70°	40.7	40.7	40.7	40.7	39.8	40.7	40.7	41.8
72.5°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
75°	9.4	9.4	9.4	10.5	9.4	9.4	9.4	9.4
77.5°	4.2	3.1	4.2	4.2	3.1	3.1	3.1	3.1
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)