

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: P583966

Luminaire Tested: **HCC8W15D010MB-HM80520940-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583966
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: HCC8W15D010MB-HM80520940-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

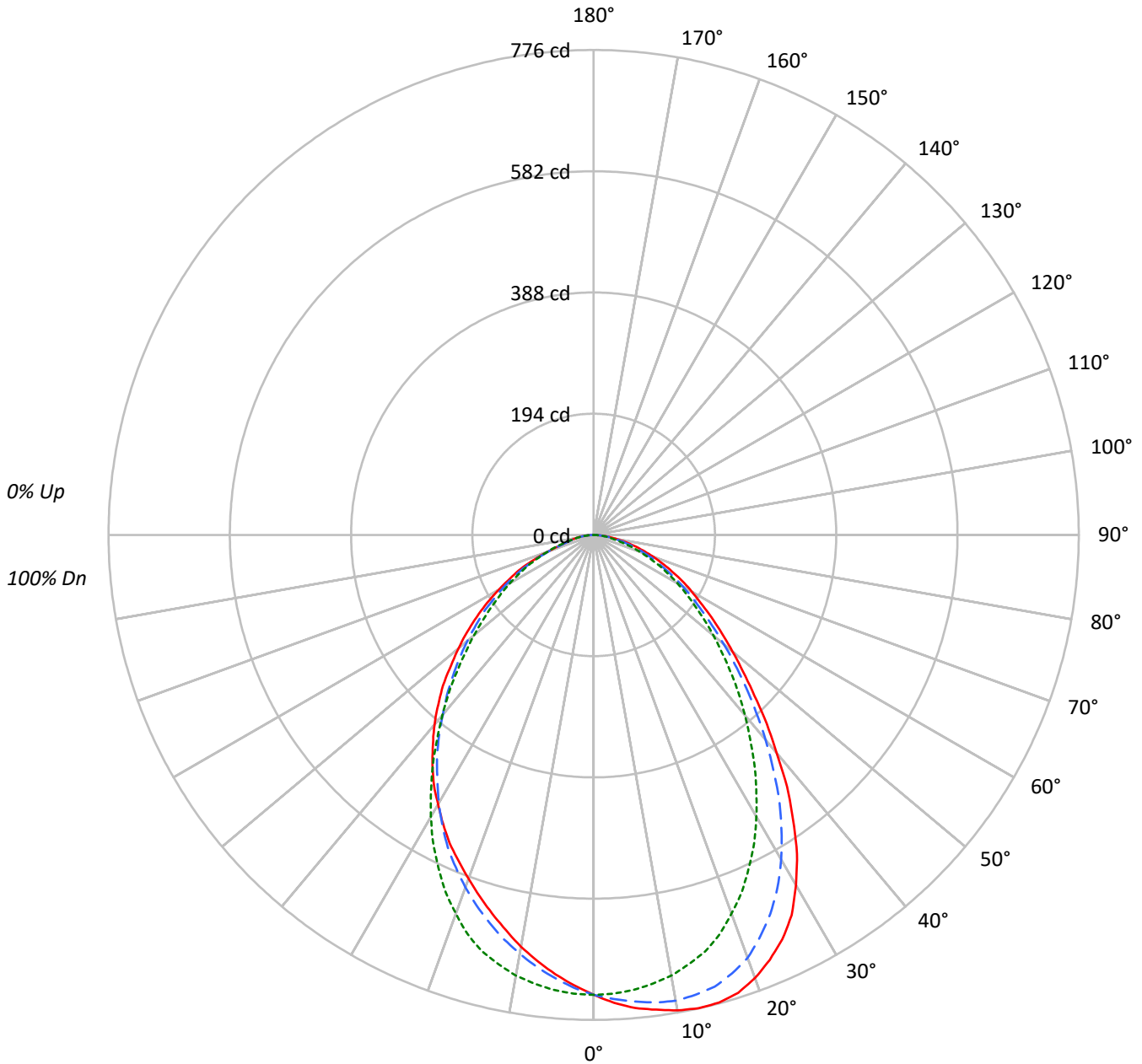
Lumens per Lamp: N/A
Luminaire Lumens: 1480.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P583966
CATALOG NUMBER: HCC8W15D010MB-HM80520940-81WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P583966

CATALOG NUMBER: HCC8W15D010MB-HM80520940-81WWWB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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°	22692	22692	22692
5°	23525	22618	21838
10°	24189	22419	20948
15°	24728	22024	20023
20°	24766	21163	19210
25°	24293	19986	18533
30°	23041	18537	17714
35°	20934	16880	16921
40°	18307	15148	15949
45°	15865	13493	14862
50°	13893	11984	13538
55°	12360	10623	12252
60°	11157	9541	10768
65°	10069	8391	9383
70°	9052	7068	6978
75°	7971	5600	5230
80°	6677	4635	5008
85°	5166	4033	4423



TEST NUMBER: P583966
 CATALOG NUMBER: HCC8W15D010MB-HM80520940-81WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	4.7
10°-20°	195.5	13.2
20°-30°	279.4	18.9
30°-40°	296.9	20.1
40°-50°	255.6	17.3
50°-60°	191.1	12.9
60°-70°	121.9	8.2
70°-80°	55.5	3.7
80°-90°	14.5	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°	544.4	36.8
0°-40°	841.3	56.8
0°-60°	1288.1	87.0
0°-90°	1480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1480.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	736	736	736	736	736	
5°	760	750	731	712	706	73
15°	775	748	690	643	627	218
25°	714	669	587	552	545	327
35°	556	517	448	437	450	346
45°	364	344	309	318	341	283
55°	230	211	198	214	228	207
65°	138	122	115	120	129	138
75°	67	58	47	43	44	71
85°	15	12	11	12	12	18
90°	0	0	0	0	0	

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



TEST NUMBER: P583966

CATALOG NUMBER: HCC8W15D010MB-HM80520940-81WWWB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9
2.5°	749.5	747.3	748.4	747.3	748.4	748.4	746.4	746.4	746.4	746.4	743.2
5°	760.0	758.9	758.9	757.8	756.9	757.8	756.9	755.8	753.7	752.6	749.5
7.5°	766.3	766.3	766.3	766.3	765.2	764.1	763.1	761.0	758.9	756.9	754.7
10°	772.5	773.5	772.5	771.4	770.4	768.3	767.2	765.2	762.0	758.9	756.9
12.5°	775.7	775.7	774.6	774.6	772.5	771.4	768.3	765.2	762.0	758.9	753.7
15°	774.6	774.6	773.5	772.5	769.4	768.3	766.3	763.1	757.8	753.7	748.4
17.5°	768.3	767.2	765.2	765.2	761.0	760.0	757.8	753.7	748.4	742.2	735.9
20°	754.7	754.7	753.7	752.6	748.4	745.3	743.2	737.9	733.8	726.5	720.2
22.5°	735.9	737.9	735.9	733.8	728.5	727.6	724.4	718.2	711.9	703.5	696.1
25°	714.0	712.9	711.9	709.7	705.5	703.5	699.3	693.0	686.7	677.3	669.0
27.5°	685.8	681.5	681.5	677.3	674.2	671.1	669.0	662.8	654.3	647.1	636.6
30°	647.1	648.0	642.9	641.8	636.6	634.6	630.3	624.1	616.7	608.4	600.0
32.5°	605.3	602.1	602.1	597.9	593.7	590.6	589.6	582.3	576.0	567.6	559.2
35°	556.1	556.1	553.0	551.9	547.8	545.6	542.5	538.4	531.0	523.7	517.4
37.5°	508.0	506.0	504.9	502.8	499.7	496.6	496.6	489.2	488.1	479.8	471.4
40°	454.8	456.8	454.8	451.6	450.5	448.4	447.4	443.2	440.1	432.7	427.5
42.5°	409.8	407.7	407.7	406.6	402.5	402.5	400.3	398.3	393.1	390.9	384.6
45°	363.8	365.8	362.7	363.8	359.6	359.6	359.6	355.4	351.3	348.1	343.9
47.5°	324.0	325.1	325.1	322.0	320.9	320.9	318.8	316.7	313.5	309.4	306.3
50°	289.6	290.6	288.5	287.5	285.3	284.4	284.4	280.2	278.0	273.9	271.7
52.5°	258.2	258.2	257.1	257.1	254.0	254.0	252.0	248.8	246.7	244.6	239.4
55°	229.9	229.9	229.0	227.9	227.9	224.7	223.6	220.5	218.5	214.2	211.1
57.5°	202.8	203.9	202.8	201.7	200.8	199.7	197.6	194.5	192.3	189.2	187.1
60°	180.9	180.9	179.8	178.7	176.7	175.6	174.6	172.4	169.3	167.3	164.1
62.5°	159.9	158.9	157.9	156.8	154.7	154.7	152.7	150.5	147.4	145.3	143.2
65°	138.0	138.0	136.9	136.9	135.9	133.8	132.8	131.7	127.5	126.5	122.3
67.5°	118.1	119.2	117.1	117.1	115.0	115.0	114.0	110.9	109.8	107.7	105.6
70°	100.4	100.4	100.4	99.3	97.2	96.2	95.1	93.0	91.9	89.9	87.8
72.5°	82.5	82.5	81.6	81.6	80.5	79.4	78.4	76.3	76.3	74.2	72.2
75°	66.9	66.9	65.9	64.8	63.7	63.7	62.7	61.7	59.5	58.6	57.5
77.5°	51.2	51.2	51.2	50.1	49.2	49.2	49.2	47.0	44.9	44.9	43.9
80°	37.6	37.6	36.6	36.6	35.5	35.5	35.5	34.5	33.5	32.4	31.3
82.5°	25.1	25.1	25.1	25.1	24.1	24.1	24.1	23.0	21.9	21.9	21.9
85°	14.6	14.6	14.6	14.6	13.6	13.6	13.6	13.6	13.6	12.5	12.5
87.5°	6.3	5.2	6.3	5.2	6.3	5.2	6.3	5.2	5.2	5.2	5.2
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: P583966

CATALOG NUMBER: HCC8W15D010MB-HM80520940-81WWWB

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9
2.5°	744.2	743.2	742.2	741.1	741.1	740.1	737.9	737.0	735.9	734.8	734.8
5°	748.4	747.3	745.3	743.2	742.2	740.1	737.9	735.9	733.8	730.7	729.6
7.5°	751.6	748.4	746.4	742.2	741.1	739.0	735.9	732.8	728.5	724.4	721.3
10°	751.6	747.3	744.2	739.0	737.0	734.8	730.7	725.4	720.2	716.0	710.8
12.5°	749.5	744.2	739.0	733.8	730.7	727.6	721.3	716.0	709.7	703.5	699.3
15°	742.2	735.9	729.6	723.4	720.2	716.0	709.7	702.4	696.1	689.9	682.6
17.5°	728.5	722.3	715.0	707.7	703.5	700.3	690.9	685.8	676.4	670.1	663.7
20°	710.8	703.5	694.1	686.7	681.5	678.4	671.1	661.7	654.3	644.9	638.7
22.5°	687.8	678.4	669.0	661.7	656.5	652.3	642.9	633.5	627.2	618.8	611.5
25°	660.6	651.2	641.8	631.4	626.1	622.0	613.6	605.3	596.8	587.4	581.2
27.5°	628.3	617.8	609.4	600.0	594.8	588.5	579.1	570.7	562.4	556.1	547.8
30°	592.7	581.2	572.9	563.5	558.2	553.0	543.6	535.1	527.9	520.6	516.3
32.5°	549.8	541.5	533.1	523.7	519.5	516.3	506.9	498.6	490.2	483.9	480.8
35°	509.1	499.7	492.4	483.9	478.7	475.6	467.3	459.9	455.7	448.4	444.3
37.5°	466.2	458.9	450.5	442.1	439.0	435.8	429.6	422.4	416.1	410.8	408.7
40°	421.3	415.0	407.7	402.5	399.3	396.2	390.9	385.7	381.5	376.3	374.3
42.5°	378.4	374.3	368.0	361.6	358.5	357.5	351.3	347.0	345.0	342.8	340.8
45°	339.7	333.4	329.3	325.1	322.0	319.8	316.7	313.5	311.5	309.4	307.3
47.5°	302.1	296.9	292.7	289.6	286.4	285.3	283.3	280.2	278.0	278.0	278.0
50°	267.6	263.4	259.2	257.1	256.1	254.0	252.0	250.9	249.8	249.8	249.8
52.5°	237.3	233.0	229.9	227.9	227.9	225.8	223.6	222.7	222.7	222.7	222.7
55°	209.1	205.9	203.9	201.7	199.7	198.6	198.6	198.6	197.6	197.6	198.6
57.5°	184.0	181.8	178.7	176.7	175.6	175.6	174.6	173.5	174.6	175.6	176.7
60°	161.0	158.9	157.9	154.7	154.7	154.7	153.6	153.6	153.6	154.7	155.8
62.5°	140.0	139.1	136.9	135.9	134.8	134.8	133.8	133.8	133.8	133.8	134.8
65°	121.2	119.2	117.1	117.1	117.1	116.0	116.0	114.0	115.0	115.0	114.0
67.5°	103.5	101.3	100.4	99.3	98.2	98.2	97.2	96.2	95.1	95.1	95.1
70°	86.8	84.7	84.7	82.5	82.5	81.6	80.5	80.5	79.4	78.4	77.4
72.5°	70.0	69.0	68.0	66.9	66.9	66.9	65.9	64.8	63.7	62.7	60.6
75°	55.4	55.4	53.3	52.3	52.3	51.2	50.1	49.2	48.1	47.0	46.0
77.5°	42.9	41.8	39.8	38.7	38.7	38.7	37.6	36.6	35.5	34.5	33.5
80°	31.3	30.4	29.3	28.2	28.2	28.2	27.2	27.2	26.1	26.1	26.1
82.5°	20.8	20.8	19.9	19.9	19.9	19.9	18.8	18.8	18.8	18.8	18.8
85°	12.5	12.5	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
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: P583966

CATALOG NUMBER: HCC8W15D010MB-HM80520940-81WWWB

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9
2.5°	732.8	732.8	730.7	729.6	728.5	729.6	727.6	726.5	725.4	725.4	724.4
5°	726.5	725.4	721.3	720.2	719.1	718.2	716.0	714.0	711.9	710.8	709.7
7.5°	718.2	715.0	710.8	709.7	708.8	705.5	702.4	700.3	697.2	696.1	694.1
10°	706.6	702.4	699.3	696.1	694.1	690.9	687.8	684.7	680.5	679.5	676.4
12.5°	693.0	687.8	681.5	680.5	677.3	673.2	669.0	665.9	662.8	660.6	657.4
15°	676.4	671.1	664.8	661.7	658.5	655.4	650.2	646.0	642.9	639.7	636.6
17.5°	656.5	650.2	644.9	641.8	639.7	634.6	630.3	625.2	622.0	618.8	615.6
20°	632.4	627.2	619.9	616.7	615.6	611.5	606.2	604.2	600.0	596.8	594.8
22.5°	605.3	600.0	593.7	591.7	587.4	585.4	580.2	578.0	576.0	572.9	571.8
25°	574.9	569.7	564.4	563.5	560.3	558.2	555.0	551.9	551.9	548.8	548.8
27.5°	543.6	538.4	534.2	532.0	531.0	528.9	525.7	524.8	523.7	522.6	522.6
30°	510.1	503.8	501.8	500.7	499.7	497.5	496.6	494.4	495.5	496.6	495.5
32.5°	474.5	472.5	468.3	466.2	467.3	466.2	464.2	466.2	465.1	467.3	468.3
35°	440.1	438.0	435.8	435.8	433.8	433.8	433.8	434.9	436.9	438.0	440.1
37.5°	406.6	403.4	402.5	401.4	402.5	402.5	402.5	404.5	406.6	408.7	411.9
40°	371.1	369.0	369.0	369.0	369.0	372.1	371.1	373.2	375.2	378.4	381.5
42.5°	337.6	337.6	338.7	338.7	338.7	338.7	340.8	343.9	347.0	350.2	353.3
45°	306.3	306.3	306.3	308.4	308.4	309.4	313.5	315.7	317.8	320.9	324.0
47.5°	277.0	277.0	278.0	279.1	280.2	282.2	284.4	287.5	290.6	292.7	295.8
50°	249.8	250.9	252.9	255.1	255.1	256.1	259.2	261.4	263.4	266.5	267.6
52.5°	223.6	225.8	227.9	229.0	229.9	232.1	233.0	236.3	237.3	240.4	241.5
55°	199.7	200.8	203.9	204.8	204.8	207.0	209.1	211.1	214.2	214.2	216.4
57.5°	177.7	178.7	180.9	181.8	180.9	184.0	185.0	187.1	188.1	190.3	191.2
60°	155.8	157.9	158.9	158.9	159.9	161.0	163.0	163.0	165.2	167.3	167.3
62.5°	134.8	135.9	136.9	138.0	139.1	138.0	141.1	141.1	143.2	144.2	146.3
65°	115.0	116.0	116.0	117.1	117.1	118.1	118.1	119.2	120.3	122.3	123.4
67.5°	95.1	95.1	95.1	96.2	95.1	96.2	96.2	97.2	97.2	99.3	100.4
70°	77.4	76.3	75.3	75.3	75.3	75.3	74.2	75.3	75.3	76.3	76.3
72.5°	59.5	58.6	57.5	56.4	56.4	55.4	54.3	55.4	55.4	56.4	56.4
75°	44.9	42.9	42.9	42.9	41.8	41.8	41.8	42.9	42.9	42.9	43.9
77.5°	33.5	33.5	32.4	32.4	32.4	33.5	33.5	34.5	34.5	34.5	34.5
80°	25.1	26.1	26.1	26.1	26.1	27.2	27.2	27.2	27.2	28.2	28.2
82.5°	18.8	18.8	18.8	18.8	19.9	19.9	19.9	19.9	19.9	19.9	19.9
85°	11.4	12.5	12.5	11.4	12.5	12.5	12.5	12.5	12.5	12.5	12.5
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
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: P583966

CATALOG NUMBER: HCC8W15D010MB-HM80520940-81WWWB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	735.9	735.9	735.9	735.9	735.9	735.9	735.9	735.9
2.5°	723.4	723.4	723.4	723.4	722.3	722.3	722.3	721.3
5°	707.7	707.7	707.7	705.5	706.6	706.6	704.6	705.5
7.5°	692.0	690.9	689.9	689.9	688.9	687.8	686.7	687.8
10°	674.2	671.1	671.1	670.1	670.1	667.9	667.9	669.0
12.5°	654.3	652.3	652.3	651.2	650.2	649.1	648.0	648.0
15°	634.6	632.4	631.4	630.3	629.3	627.2	628.3	627.2
17.5°	614.7	611.5	611.5	610.5	609.4	607.3	607.3	606.2
20°	591.7	590.6	588.5	589.6	588.5	586.5	585.4	585.4
22.5°	568.6	568.6	567.6	567.6	566.6	565.5	564.4	564.4
25°	546.7	545.6	546.7	546.7	543.6	543.6	543.6	544.7
27.5°	521.6	522.6	521.6	521.6	521.6	521.6	522.6	521.6
30°	496.6	496.6	496.6	497.5	499.7	498.6	498.6	497.5
32.5°	469.3	470.4	470.4	471.4	472.5	474.5	474.5	475.6
35°	442.1	444.3	445.2	444.3	447.4	447.4	449.5	449.5
37.5°	413.9	415.0	417.1	418.1	420.2	421.3	422.4	422.4
40°	383.7	387.8	388.9	389.9	393.1	393.1	394.0	396.2
42.5°	355.4	359.6	360.7	361.6	363.8	366.9	365.8	368.0
45°	328.2	331.4	332.5	333.4	336.6	337.6	337.6	340.8
47.5°	299.0	301.0	302.1	304.1	306.3	308.4	310.4	309.4
50°	269.7	272.8	274.9	275.9	279.1	280.2	281.2	282.2
52.5°	243.5	245.7	246.7	247.7	250.9	252.0	252.9	255.1
55°	218.5	219.6	221.6	220.5	223.6	224.7	225.8	227.9
57.5°	193.4	194.5	195.5	195.5	197.6	199.7	200.8	201.7
60°	169.3	171.5	172.4	172.4	172.4	174.6	174.6	174.6
62.5°	147.4	147.4	148.5	148.5	150.5	150.5	150.5	150.5
65°	124.4	125.4	126.5	126.5	128.6	127.5	129.7	128.6
67.5°	100.4	100.4	102.4	102.4	101.3	102.4	102.4	102.4
70°	76.3	76.3	77.4	77.4	77.4	77.4	77.4	77.4
72.5°	56.4	56.4	56.4	57.5	56.4	56.4	57.5	56.4
75°	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
77.5°	34.5	34.5	35.5	35.5	35.5	35.5	35.5	35.5
80°	28.2	28.2	28.2	28.2	29.3	28.2	28.2	28.2
82.5°	20.8	19.9	20.8	19.9	20.8	20.8	20.8	20.8
85°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
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)