

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: P583889

Luminaire Tested: **HCC8W15D010MB-HM80520840-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583889
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: HCC8W15D010MB-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

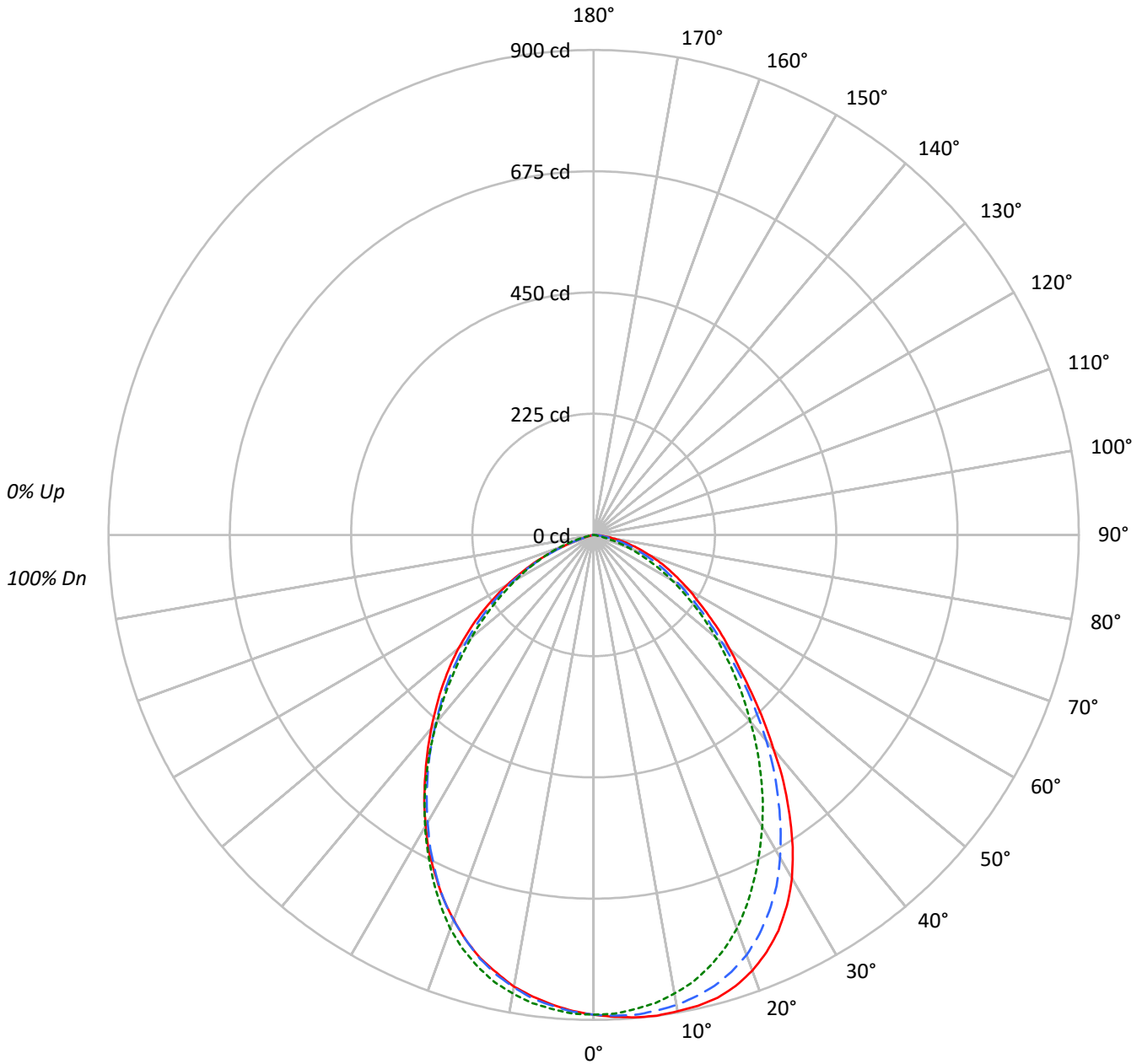
Lumens per Lamp: N/A
Luminaire Lumens: 1692.2 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P583889
CATALOG NUMBER: HCC8W15D010MB-HM80520840-81RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P583889

CATALOG NUMBER: HCC8W15D010MB-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	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°	27457	27457	27457
5°	27818	27342	27085
10°	28103	27060	26653
15°	28387	26491	25957
20°	28241	25514	24927
25°	27583	23984	23660
30°	26203	22265	22179
35°	23851	20317	20493
40°	20912	18187	18855
45°	18041	16175	17313
50°	15797	14195	15682
55°	13994	12204	13806
60°	12612	10262	11434
65°	11361	8238	8756
70°	9963	5996	4824
75°	8495	3110	1275
80°	6553	835	213
85°	4210	0	0



TEST NUMBER: P583889
 CATALOG NUMBER: HCC8W15D010MB-HM80520840-81RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	5.0
10°-20°	236.2	14.0
20°-30°	335.2	19.8
30°-40°	352.8	20.9
40°-50°	300.2	17.7
50°-60°	216.9	12.8
60°-70°	123.4	7.3
70°-80°	38.9	2.3
80°-90°	4.7	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°	655.4	38.7
0°-40°	1008.2	59.6
0°-60°	1525.3	90.1
0°-90°	1692.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1692.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	890	890	890	890	890	
5°	899	894	883	877	875	86
15°	889	867	830	814	813	250
25°	811	770	705	693	695	371
35°	634	597	540	536	544	394
45°	414	398	371	380	397	322
55°	260	241	227	240	257	235
65°	156	134	113	112	120	154
75°	71	55	26	12	11	77
85°	12	7	0	0	0	15
90°	0	0	0	0	0	

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



TEST NUMBER: P583889

CATALOG NUMBER: HCC8W15D010MB-HM80520840-81RWWC

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	890.4	890.4	890.4	890.4	890.4	890.4	890.4	890.4	890.4	890.4	890.4
2.5°	895.2	896.3	894.0	894.0	896.3	894.0	895.2	895.2	894.0	894.0	892.8
5°	898.7	897.5	897.5	897.5	898.7	896.3	895.2	896.3	894.0	894.0	894.0
7.5°	899.9	899.9	898.7	897.5	897.5	897.5	896.3	895.2	894.0	891.6	890.4
10°	897.5	897.5	898.7	896.3	896.3	894.0	894.0	891.6	891.6	889.2	885.7
12.5°	895.2	894.0	894.0	891.6	891.6	889.2	889.2	885.7	884.5	880.9	877.4
15°	889.2	888.0	885.7	884.5	883.3	882.1	879.6	878.4	875.0	870.1	866.6
17.5°	877.4	876.2	875.0	872.5	870.1	869.0	867.8	864.2	859.5	855.9	850.0
20°	860.6	859.5	859.5	855.9	854.7	851.2	850.0	845.2	841.7	834.5	829.8
22.5°	838.1	839.3	836.9	834.5	832.2	828.6	826.1	821.4	815.5	808.3	802.4
25°	810.7	811.9	809.5	807.2	803.6	801.2	798.8	791.7	785.8	777.5	770.4
27.5°	776.3	776.3	776.3	773.9	767.9	766.7	764.3	757.2	748.9	741.8	734.7
30°	735.9	734.7	734.7	731.1	728.7	724.0	720.3	714.4	708.5	700.2	691.9
32.5°	687.1	688.3	684.7	682.4	678.8	678.8	674.1	669.3	662.1	653.8	645.5
35°	633.6	634.8	632.4	631.2	625.3	624.1	622.9	617.0	612.3	606.2	596.7
37.5°	578.9	577.8	576.6	576.6	573.0	570.6	568.3	564.7	557.6	552.7	548.0
40°	519.5	519.5	519.5	518.3	517.1	514.8	513.6	511.2	506.5	501.6	498.1
42.5°	466.0	466.0	464.8	463.6	461.3	462.5	460.1	457.7	453.0	449.3	446.9
45°	413.7	413.7	413.7	414.9	412.5	409.0	409.0	406.6	404.2	401.7	398.3
47.5°	367.3	370.9	368.5	367.3	368.5	363.8	363.8	361.4	359.0	356.7	351.9
50°	329.3	329.3	329.3	326.9	325.7	325.7	322.1	319.8	318.6	316.2	311.5
52.5°	294.9	292.5	292.5	291.2	290.0	287.6	287.6	285.3	280.5	278.1	274.6
55°	260.3	260.3	259.2	258.0	256.8	255.6	254.4	250.9	248.5	244.9	241.4
57.5°	229.4	231.8	230.6	228.2	225.8	225.8	223.5	221.1	217.5	214.0	210.4
60°	204.5	203.3	203.3	202.1	199.7	198.6	197.4	193.8	190.1	186.7	183.0
62.5°	178.3	178.3	178.3	175.9	173.5	172.3	171.2	168.8	164.0	160.5	158.1
65°	155.7	154.5	153.4	152.2	151.0	148.6	147.4	145.1	141.5	137.9	134.4
67.5°	133.2	131.9	131.9	130.7	127.2	126.0	126.0	122.4	118.9	115.3	111.7
70°	110.5	110.5	110.5	108.2	107.0	105.8	104.6	102.2	98.7	95.1	91.6
72.5°	91.6	90.4	90.4	89.2	85.6	84.4	83.3	80.9	77.2	75.0	72.5
75°	71.3	71.3	70.1	68.9	67.7	66.5	65.4	63.0	59.4	55.9	54.7
77.5°	54.7	53.5	53.5	52.3	49.9	48.7	48.7	46.4	42.8	40.4	38.1
80°	36.9	38.1	36.9	35.7	34.5	33.3	32.1	30.8	28.6	26.1	23.7
82.5°	22.5	23.7	22.5	22.5	21.4	20.2	20.2	17.8	16.6	15.4	14.2
85°	11.9	11.9	11.9	11.9	10.7	10.7	10.7	9.5	8.3	7.1	7.1
87.5°	3.6	4.7	3.6	3.6	3.6	3.6	3.6	3.6	2.4	2.4	2.4
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: P583889

CATALOG NUMBER: HCC8W15D010MB-HM80520840-81RWWC

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	890.4	890.4	890.4	890.4	890.4	890.4	890.4	890.4	890.4	890.4	890.4
2.5°	894.0	892.8	891.6	891.6	891.6	891.6	891.6	890.4	889.2	889.2	889.2
5°	891.6	891.6	891.6	890.4	889.2	889.2	886.8	885.7	884.5	883.3	882.1
7.5°	889.2	886.8	885.7	884.5	883.3	883.3	880.9	878.4	878.4	876.2	873.7
10°	882.1	880.9	878.4	876.2	875.0	873.7	871.3	867.8	866.6	864.2	861.8
12.5°	873.7	871.3	869.0	864.2	863.0	861.8	857.1	853.5	851.2	850.0	844.0
15°	863.0	858.3	854.7	848.8	847.6	845.2	841.7	838.1	833.4	829.8	827.4
17.5°	844.0	839.3	833.4	827.4	824.9	824.9	819.0	814.3	808.3	806.0	801.2
20°	821.4	815.5	810.7	803.6	800.0	796.5	792.9	785.8	781.0	777.5	771.6
22.5°	795.3	787.0	781.0	773.9	767.9	764.3	758.4	752.5	746.5	743.0	738.2
25°	762.0	754.8	745.4	738.2	734.7	729.9	722.8	716.9	710.8	704.9	702.5
27.5°	725.2	715.6	707.3	699.0	695.4	691.9	683.6	676.4	671.7	665.8	663.4
30°	684.7	675.2	665.8	658.5	655.0	649.0	644.3	636.0	630.1	625.3	619.4
32.5°	638.4	631.2	622.9	612.3	609.9	605.0	597.9	594.4	587.2	583.7	578.9
35°	588.4	583.7	575.4	567.1	563.5	561.0	555.1	548.0	543.2	539.7	537.3
37.5°	540.9	534.9	526.6	520.7	518.3	514.8	507.5	504.1	499.2	496.9	492.1
40°	489.7	483.8	477.9	474.3	470.8	468.4	463.6	460.1	455.2	451.8	450.5
42.5°	439.8	436.3	431.5	426.8	425.6	422.0	419.6	416.1	412.5	411.3	407.8
45°	394.6	391.1	386.3	381.6	380.4	378.0	376.8	373.3	370.9	370.9	370.9
47.5°	349.5	346.0	341.1	338.8	339.9	335.2	335.2	334.0	331.6	331.6	332.8
50°	309.1	304.4	303.2	300.8	298.4	295.9	297.2	293.7	293.7	295.9	294.9
52.5°	271.0	266.3	265.1	262.7	261.5	261.5	260.3	260.3	259.2	260.3	260.3
55°	236.5	233.0	230.6	228.2	227.0	227.0	227.0	225.8	224.7	227.0	228.2
57.5°	205.7	204.5	202.1	198.6	197.4	196.2	195.0	195.0	195.0	195.0	196.2
60°	178.3	175.9	173.5	170.0	170.0	168.8	167.6	166.4	166.4	166.4	166.4
62.5°	154.5	151.0	147.4	145.1	143.9	142.7	141.5	139.1	139.1	139.1	139.1
65°	130.7	127.2	124.8	122.4	120.0	120.0	117.7	116.5	114.1	112.9	110.5
67.5°	108.2	105.8	103.4	99.9	98.7	97.5	95.1	93.9	90.4	89.2	88.0
70°	88.0	84.4	82.1	79.7	78.4	76.0	73.7	71.3	68.9	66.5	64.2
72.5°	68.9	65.4	63.0	60.6	58.2	58.2	54.7	52.3	48.7	46.4	42.8
75°	51.1	47.6	45.2	41.6	40.4	39.3	35.7	33.3	29.8	26.1	23.7
77.5°	34.5	32.1	29.8	26.1	23.7	23.7	20.2	17.8	15.4	11.9	10.7
80°	21.4	19.0	16.6	14.2	14.2	11.9	10.7	8.3	5.9	4.7	3.6
82.5°	11.9	10.7	9.5	7.1	7.1	5.9	4.7	3.6	2.4	1.2	1.2
85°	5.9	4.7	3.6	3.6	2.4	2.4	2.4	1.2	1.2	0.0	0.0
87.5°	2.4	1.2	1.2	1.2	1.2	1.2	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: P583889

CATALOG NUMBER: HCC8W15D010MB-HM80520840-81RWWC

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	890.4	890.4	890.4	890.4	890.4	890.4	890.4	890.4	890.4	890.4	890.4
2.5°	888.0	888.0	886.8	886.8	886.8	885.7	886.8	885.7	885.7	885.7	886.8
5°	883.3	880.9	880.9	879.6	879.6	878.4	879.6	878.4	877.4	876.2	877.4
7.5°	873.7	871.3	870.1	869.0	869.0	869.0	867.8	866.6	867.8	864.2	866.6
10°	860.6	859.5	857.1	855.9	854.7	855.9	854.7	852.3	852.3	852.3	851.2
12.5°	844.0	841.7	840.5	839.3	836.9	836.9	838.1	835.7	835.7	833.4	833.4
15°	823.9	821.4	819.0	819.0	816.6	816.6	815.5	815.5	814.3	813.1	813.1
17.5°	798.8	795.3	792.9	794.1	792.9	791.7	791.7	789.4	788.2	789.4	789.4
20°	769.2	766.7	764.3	765.5	763.2	762.0	763.2	759.6	760.8	760.8	760.8
22.5°	735.9	734.7	731.1	731.1	728.7	727.6	728.7	728.7	729.9	728.7	728.7
25°	699.0	696.6	694.2	694.2	693.0	691.9	693.0	694.2	693.0	694.2	694.2
27.5°	659.7	656.2	656.2	653.8	653.8	655.0	653.8	655.0	656.2	656.2	658.5
30°	617.0	615.8	614.6	613.3	613.3	614.6	614.6	614.6	615.8	618.2	618.2
32.5°	576.6	574.2	571.8	571.8	574.2	573.0	574.2	574.2	576.6	576.6	578.9
35°	532.6	532.6	530.2	531.4	531.4	531.4	531.4	533.8	536.1	537.3	539.7
37.5°	492.1	488.6	489.7	489.7	490.9	489.7	493.3	493.3	495.7	495.7	498.1
40°	448.1	448.1	449.3	448.1	449.3	449.3	451.8	454.2	455.2	457.7	458.9
42.5°	406.6	409.0	406.6	407.8	409.0	410.2	411.3	412.5	417.3	419.6	423.2
45°	368.5	369.7	370.9	372.1	370.9	373.3	374.5	376.8	380.4	381.6	382.8
47.5°	331.6	332.8	334.0	335.2	335.2	337.6	338.8	341.1	343.5	344.8	346.0
50°	295.9	298.4	299.6	299.6	300.8	303.2	305.5	305.5	307.9	311.5	312.7
52.5°	263.9	263.9	266.3	267.5	268.7	268.7	272.2	273.4	274.6	277.0	279.3
55°	228.2	231.8	233.0	233.0	235.3	237.7	239.0	240.2	240.2	244.9	244.9
57.5°	197.4	198.6	200.9	200.9	200.9	204.5	204.5	206.9	208.0	209.2	211.6
60°	166.4	168.8	168.8	170.0	168.8	171.2	172.3	174.7	175.9	177.1	178.3
62.5°	137.9	137.9	139.1	139.1	139.1	139.1	141.5	141.5	143.9	145.1	146.2
65°	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	111.7	111.7	114.1
67.5°	85.6	84.4	82.1	83.3	82.1	82.1	80.9	80.9	82.1	82.1	84.4
70°	61.8	60.6	58.2	58.2	57.1	55.9	54.7	53.5	52.3	52.3	52.3
72.5°	40.4	38.1	34.5	33.3	33.3	30.8	28.6	27.4	27.4	27.4	27.4
75°	20.2	17.8	15.4	14.2	14.2	11.9	13.1	11.9	11.9	11.9	11.9
77.5°	8.3	5.9	4.7	4.7	4.7	3.6	3.6	3.6	3.6	3.6	3.6
80°	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	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: P583889

CATALOG NUMBER: HCC8W15D010MB-HM80520840-81RWWC

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	890.4	890.4	890.4	890.4	890.4	890.4	890.4	890.4
2.5°	885.7	885.7	883.3	884.5	884.5	884.5	884.5	884.5
5°	875.0	876.2	875.0	876.2	876.2	875.0	875.0	875.0
7.5°	864.2	865.4	864.2	865.4	865.4	865.4	864.2	864.2
10°	851.2	851.2	851.2	851.2	851.2	850.0	851.2	851.2
12.5°	833.4	833.4	833.4	834.5	834.5	833.4	833.4	832.2
15°	814.3	811.9	813.1	814.3	813.1	813.1	813.1	813.1
17.5°	788.2	789.4	788.2	788.2	788.2	788.2	789.4	788.2
20°	760.8	760.8	762.0	760.8	760.8	760.8	760.8	759.6
22.5°	729.9	728.7	728.7	729.9	729.9	728.7	729.9	729.9
25°	695.4	696.6	695.4	695.4	696.6	696.6	696.6	695.4
27.5°	658.5	659.7	660.9	659.7	659.7	659.7	660.9	662.1
30°	620.6	622.9	620.6	620.6	622.9	621.8	622.9	622.9
32.5°	580.1	583.7	581.3	583.7	583.7	584.9	583.7	584.9
35°	539.7	543.2	543.2	543.2	544.4	545.6	545.6	544.4
37.5°	501.6	502.8	502.8	505.3	506.5	507.5	507.5	506.5
40°	462.5	464.8	466.0	466.0	466.0	468.4	470.8	468.4
42.5°	424.4	425.6	426.8	426.8	429.1	430.3	431.5	431.5
45°	387.5	389.9	391.1	392.3	393.4	395.8	394.6	397.0
47.5°	349.5	353.1	354.3	355.5	357.8	359.0	360.2	361.4
50°	315.0	317.4	317.4	319.8	323.3	323.3	325.7	326.9
52.5°	280.5	281.7	282.9	284.1	286.5	288.8	288.8	291.2
55°	247.3	248.5	248.5	249.7	250.9	255.6	256.8	256.8
57.5°	212.8	212.8	215.2	216.3	217.5	219.9	219.9	219.9
60°	179.5	180.8	180.8	181.8	183.0	185.4	186.7	185.4
62.5°	146.2	147.4	147.4	148.6	151.0	152.2	151.0	151.0
65°	115.3	116.5	116.5	117.7	120.0	120.0	118.9	120.0
67.5°	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
70°	53.5	52.3	51.1	52.3	52.3	52.3	51.1	53.5
72.5°	26.1	27.4	27.4	27.4	27.4	27.4	27.4	26.1
75°	11.9	11.9	10.7	10.7	10.7	11.9	11.9	10.7
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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)