

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: P584062

Luminaire Tested: **HCC8W20D010SL-HM80520930-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584062
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: HCC8W20D010SL-HM80520930-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

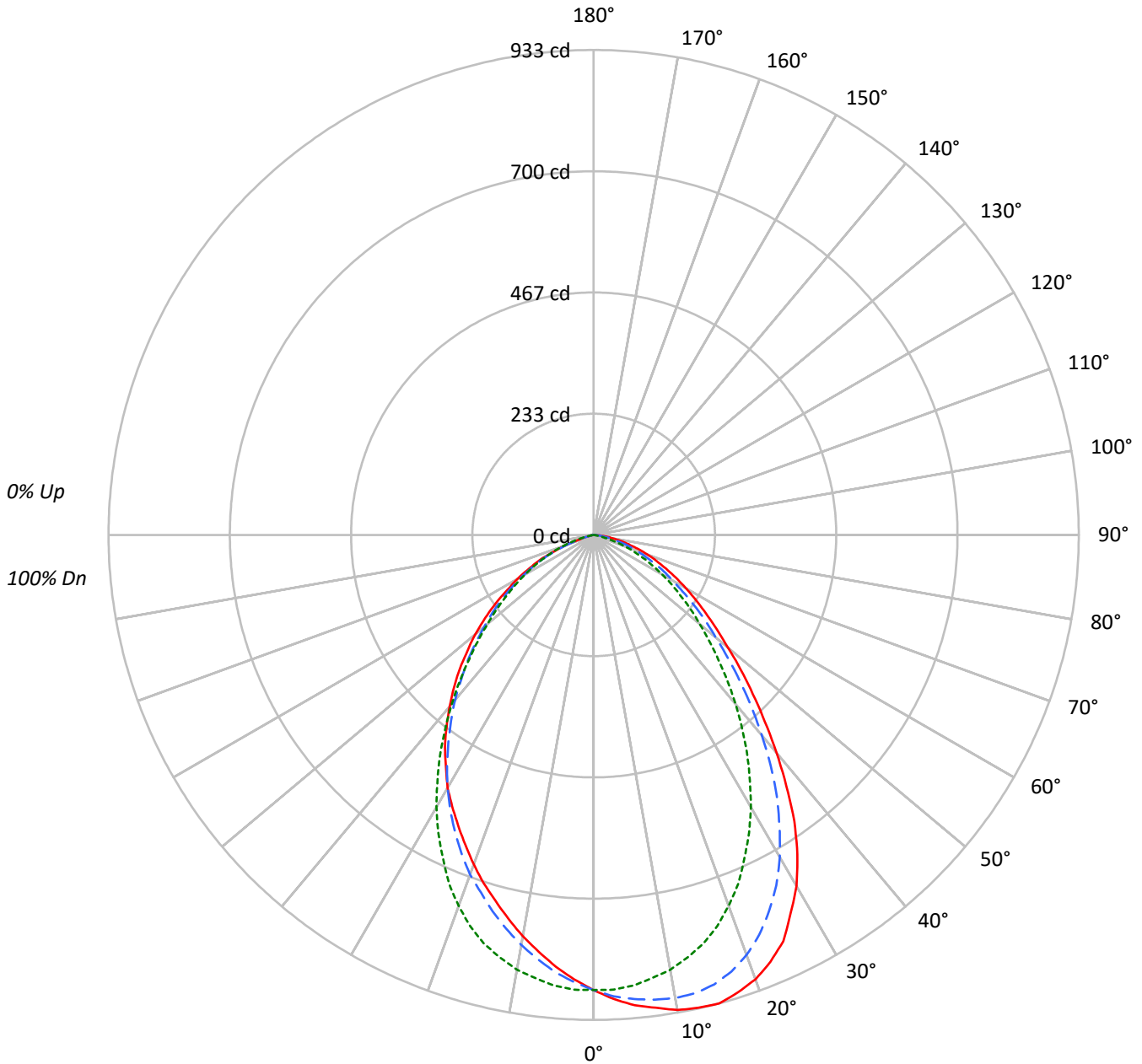
Lumens per Lamp: N/A
Luminaire Lumens: 1631.0 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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: P584062
CATALOG NUMBER: HCC8W20D010SL-HM80520930-81WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P584062

CATALOG NUMBER: HCC8W20D010SL-HM80520930-81WWBB

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°	27000	27000	27000
5°	28119	26942	25810
10°	29058	26600	24549
15°	29792	25993	23276
20°	29852	24913	22121
25°	29346	23337	20976
30°	27777	21531	19997
35°	25327	19364	18773
40°	22023	17072	17333
45°	18891	14783	15865
50°	16138	12746	14258
55°	14145	10973	12387
60°	12587	9368	10410
65°	11178	7639	8303
70°	9909	5671	4724
75°	8268	2955	1406
80°	6499	923	231
85°	4635	460	0



TEST NUMBER: P584062
 CATALOG NUMBER: HCC8W20D010SL-HM80520930-81WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	5.1
10°-20°	231.3	14.2
20°-30°	327.3	20.1
30°-40°	342.4	21.0
40°-50°	285.6	17.5
50°-60°	202.5	12.4
60°-70°	116.6	7.2
70°-80°	37.5	2.3
80°-90°	5.2	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°	641.1	39.3
0°-40°	983.5	60.3
0°-60°	1471.7	90.2
0°-90°	1631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1631.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	876	876	876	876	876	
5°	908	896	870	844	834	87
15°	933	895	814	750	729	262
25°	862	798	686	631	616	394
35°	673	614	514	487	499	417
45°	433	398	339	343	364	336
55°	263	236	204	215	230	238
65°	153	128	105	105	114	153
75°	69	51	25	12	12	75
85°	13	6	1	0	0	16
90°	0	0	0	0	0	



TEST NUMBER: P584062

CATALOG NUMBER: HCC8W20D010SL-HM80520930-81WWBB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	875.6	875.6	875.6	875.6	875.6	875.6	875.6	875.6	875.6	875.6	875.6
2.5°	893.9	892.6	891.3	892.6	891.3	892.6	891.3	891.3	890.0	888.7	888.7
5°	908.4	907.1	907.1	907.1	905.8	904.5	904.5	903.2	900.6	899.3	896.5
7.5°	917.6	918.9	918.9	918.9	916.2	916.2	913.6	911.0	908.4	905.8	901.9
10°	928.0	928.0	926.7	925.4	922.8	921.5	920.2	917.6	913.6	908.4	904.5
12.5°	931.9	931.9	930.6	928.0	926.7	925.4	924.1	920.2	914.9	908.4	903.2
15°	933.2	930.6	929.3	928.0	925.4	921.5	921.5	916.2	909.7	901.9	895.2
17.5°	922.8	924.1	921.5	918.9	914.9	912.3	908.4	904.5	896.5	887.4	880.8
20°	909.7	908.4	907.1	903.2	897.8	896.5	892.6	886.1	879.5	869.1	859.9
22.5°	888.7	887.4	884.8	882.2	876.9	874.3	870.4	862.5	853.4	842.9	832.5
25°	862.5	859.9	856.0	850.8	846.9	844.2	839.0	831.2	820.7	808.8	798.4
27.5°	820.7	824.6	822.0	814.2	810.3	804.9	803.6	793.2	784.0	772.2	760.5
30°	780.1	780.1	776.2	772.2	765.7	761.8	756.5	748.7	739.6	725.2	715.9
32.5°	729.1	727.8	722.6	721.3	715.9	708.1	706.8	696.3	687.2	676.7	664.9
35°	672.8	670.2	664.9	661.0	658.4	654.5	650.6	641.4	632.3	621.7	613.8
37.5°	608.6	608.6	607.3	600.8	598.2	595.5	591.6	582.5	577.2	566.8	558.8
40°	547.1	545.8	541.8	540.5	537.9	534.0	531.4	526.2	518.3	510.5	502.6
42.5°	486.9	488.2	483.0	484.3	479.1	476.5	475.2	467.2	463.3	455.5	448.9
45°	433.2	431.9	429.3	428.0	425.4	422.8	420.2	416.2	409.7	401.9	397.9
47.5°	383.6	379.5	379.5	378.2	376.9	371.7	370.4	366.5	362.5	354.7	349.5
50°	336.4	336.4	336.4	335.1	331.2	329.9	327.2	323.3	319.4	314.2	306.3
52.5°	298.5	298.5	298.5	297.2	291.8	290.5	289.2	284.0	278.8	274.8	269.6
55°	263.1	264.4	263.1	260.5	256.5	256.5	252.6	250.0	244.8	240.9	235.6
57.5°	233.0	233.0	230.4	229.1	226.5	225.2	222.5	219.9	213.4	209.5	202.8
60°	204.1	202.8	202.8	200.2	197.6	195.0	193.7	189.8	187.2	180.6	175.4
62.5°	178.0	178.0	175.4	175.4	170.2	170.2	168.8	164.9	161.0	154.5	151.9
65°	153.2	153.2	151.9	150.5	146.6	145.3	144.0	140.1	136.2	132.1	128.2
67.5°	130.8	130.8	128.2	126.9	124.3	123.0	120.4	117.8	113.8	109.9	106.0
70°	109.9	108.6	107.3	106.0	103.4	102.1	99.5	96.8	92.9	90.3	86.4
72.5°	89.0	89.0	87.7	85.1	83.8	82.5	81.2	78.5	74.6	70.7	68.1
75°	69.4	69.4	69.4	66.8	64.2	62.9	62.9	60.2	57.6	53.7	51.1
77.5°	53.7	52.4	51.1	51.1	48.5	47.2	45.9	44.4	40.5	39.2	36.6
80°	36.6	37.9	36.6	35.3	34.0	32.7	32.7	30.1	28.8	26.1	23.5
82.5°	24.8	23.5	23.5	22.2	22.2	20.9	20.9	18.3	17.0	15.7	14.4
85°	13.1	13.1	11.8	11.8	11.8	10.5	10.5	9.2	9.2	7.8	6.5
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	2.6	2.6	2.6
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: P584062

CATALOG NUMBER: HCC8W20D010SL-HM80520930-81WWBB

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	875.6	875.6	875.6	875.6	875.6	875.6	875.6	875.6	875.6	875.6	875.6
2.5°	887.4	884.8	883.5	883.5	882.2	880.8	879.5	878.2	875.6	875.6	873.0
5°	893.9	891.3	890.0	886.1	883.5	883.5	878.2	876.9	873.0	870.4	867.8
7.5°	899.3	893.9	890.0	886.1	883.5	880.8	875.6	870.4	865.2	859.9	857.3
10°	899.3	893.9	887.4	880.8	878.2	875.6	869.1	861.2	854.7	849.5	842.9
12.5°	896.5	888.7	880.8	875.6	870.4	866.5	858.6	850.8	842.9	832.5	827.2
15°	888.7	878.2	870.4	861.2	857.3	850.8	844.2	832.5	823.3	814.2	807.5
17.5°	873.0	859.9	850.8	841.6	835.1	831.2	820.7	810.3	799.7	789.2	781.4
20°	849.5	837.7	827.2	815.5	810.3	804.9	791.8	781.4	770.9	759.2	751.3
22.5°	820.7	808.8	794.5	785.3	777.5	770.9	759.2	747.4	736.9	726.5	715.9
25°	785.3	773.5	760.5	746.1	740.9	734.3	721.3	709.4	697.6	685.9	676.7
27.5°	747.4	731.7	721.3	705.5	700.2	693.7	679.3	666.2	655.8	646.6	636.2
30°	701.5	689.8	675.4	661.0	655.8	649.2	637.5	625.6	615.2	604.7	594.2
32.5°	651.9	640.1	625.6	615.2	607.3	602.1	590.3	579.9	569.4	558.8	549.7
35°	599.5	586.4	575.9	565.5	558.8	552.3	540.5	531.4	523.5	514.4	505.2
37.5°	545.8	536.6	526.2	514.4	507.9	502.6	493.5	483.0	476.5	468.5	462.0
40°	493.5	483.0	473.9	463.3	458.1	454.2	445.0	437.2	430.6	424.1	420.2
42.5°	439.8	430.6	421.5	414.9	411.0	407.1	400.5	391.4	387.5	380.8	376.9
45°	390.1	382.1	375.6	366.5	363.8	361.2	353.4	346.8	342.9	339.0	336.4
47.5°	342.9	337.7	329.9	324.6	320.7	318.1	312.9	307.6	303.7	301.1	298.5
50°	302.4	295.9	290.5	285.3	282.7	278.8	273.5	270.9	268.3	265.7	265.7
52.5°	264.4	257.8	252.6	248.7	246.1	243.5	239.5	238.2	235.6	235.6	234.3
55°	229.1	225.2	219.9	214.7	213.4	212.1	209.5	206.8	205.5	204.1	205.5
57.5°	198.9	195.0	189.8	185.8	184.5	183.2	181.9	179.3	178.0	178.0	178.0
60°	171.5	167.5	163.6	159.7	159.7	157.1	155.8	154.5	153.2	151.9	151.9
62.5°	146.6	142.7	138.8	136.2	134.9	133.4	130.8	129.5	128.2	128.2	126.9
65°	124.3	119.1	117.8	113.8	112.5	111.2	109.9	107.3	106.0	104.7	103.4
67.5°	102.1	99.5	95.5	92.9	91.6	90.3	89.0	86.4	85.1	83.8	81.2
70°	82.5	79.8	77.2	74.6	73.3	72.0	69.4	66.8	65.5	62.9	58.9
72.5°	64.2	61.5	58.9	56.3	55.0	53.7	51.1	48.5	45.9	43.1	40.5
75°	48.5	45.9	41.8	39.2	37.9	37.9	34.0	31.4	28.8	24.8	22.2
77.5°	34.0	30.1	28.8	26.1	24.8	22.2	19.6	17.0	14.4	13.1	10.5
80°	22.2	19.6	17.0	15.7	14.4	13.1	11.8	9.2	6.5	5.2	3.9
82.5°	13.1	11.8	10.5	9.2	7.8	6.5	5.2	5.2	3.9	2.6	1.3
85°	6.5	5.2	3.9	3.9	2.6	2.6	2.6	1.3	1.3	1.3	1.3
87.5°	2.6	1.3	1.3	1.3	1.3	1.3	1.3	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: P584062

CATALOG NUMBER: HCC8W20D010SL-HM80520930-81WWBB

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	875.6	875.6	875.6	875.6	875.6	875.6	875.6	875.6	875.6	875.6	875.6
2.5°	871.7	870.4	869.1	867.8	867.8	865.2	865.2	863.9	861.2	859.9	859.9
5°	863.9	859.9	857.3	856.0	854.7	850.8	849.5	846.9	844.2	841.6	840.3
7.5°	852.1	845.5	842.9	841.6	837.7	833.8	831.2	827.2	823.3	819.4	818.1
10°	837.7	831.2	824.6	822.0	818.1	815.5	810.3	804.9	801.0	797.1	793.2
12.5°	819.4	811.6	804.9	802.3	798.4	793.2	785.3	782.7	776.2	773.5	768.3
15°	798.4	789.2	782.7	778.8	774.9	767.0	761.8	756.5	750.0	747.4	742.2
17.5°	772.2	761.8	755.2	751.3	748.7	742.2	734.3	727.8	721.3	718.5	714.6
20°	740.9	734.3	725.2	721.3	718.5	710.7	702.8	700.2	695.0	689.8	685.9
22.5°	705.5	698.9	689.8	685.9	684.5	678.0	671.5	667.5	663.6	659.7	655.8
25°	668.9	661.0	653.2	650.6	647.9	642.7	637.5	634.9	630.8	628.2	625.6
27.5°	629.5	621.7	615.2	611.2	608.6	604.7	602.1	599.5	596.9	594.2	592.9
30°	587.7	579.9	574.6	572.0	569.4	568.1	564.2	562.9	561.6	558.8	560.1
32.5°	545.8	539.2	534.0	530.1	530.1	527.5	526.2	526.2	524.8	524.8	524.8
35°	500.0	496.1	492.2	490.9	489.5	488.2	486.9	488.2	486.9	488.2	489.5
37.5°	458.1	454.2	451.5	450.2	448.9	450.2	448.9	448.9	450.2	452.8	454.2
40°	414.9	412.3	409.7	411.0	409.7	409.7	409.7	413.6	414.9	416.2	417.5
42.5°	374.3	371.7	370.4	370.4	371.7	370.4	373.0	374.3	376.9	380.8	383.6
45°	335.1	333.8	333.8	335.1	333.8	336.4	336.4	339.0	342.9	345.5	348.2
47.5°	298.5	298.5	298.5	299.8	299.8	301.1	303.7	305.0	307.6	310.2	312.9
50°	264.4	265.7	267.0	267.0	267.0	269.6	272.2	273.5	274.8	276.2	280.1
52.5°	234.3	235.6	235.6	236.9	238.2	239.5	240.9	243.5	244.8	247.4	248.7
55°	205.5	205.5	208.2	209.5	209.5	209.5	212.1	212.1	214.7	216.0	218.6
57.5°	178.0	179.3	179.3	180.6	180.6	181.9	183.2	184.5	185.8	187.2	188.5
60°	151.9	151.9	151.9	153.2	154.5	155.8	154.5	157.1	157.1	159.7	161.0
62.5°	126.9	128.2	128.2	128.2	128.2	128.2	128.2	129.5	130.8	132.1	133.4
65°	103.4	103.4	103.4	102.1	103.4	102.1	103.4	104.7	104.7	106.0	107.3
67.5°	79.8	79.8	77.2	77.2	78.5	78.5	78.5	78.5	77.2	79.8	79.8
70°	57.6	56.3	55.0	53.7	53.7	52.4	52.4	51.1	51.1	51.1	51.1
72.5°	37.9	35.3	32.7	31.4	30.1	30.1	27.5	26.1	27.5	27.5	27.5
75°	19.6	17.0	15.7	14.4	13.1	13.1	11.8	11.8	11.8	11.8	11.8
77.5°	7.8	6.5	5.2	5.2	3.9	3.9	3.9	3.9	3.9	3.9	3.9
80°	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	1.3	0.0	0.0	1.3	0.0	1.3	1.3	1.3	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: P584062

CATALOG NUMBER: HCC8W20D010SL-HM80520930-81WWBB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	875.6	875.6	875.6	875.6	875.6	875.6	875.6	875.6
2.5°	858.6	858.6	857.3	858.6	856.0	857.3	856.0	856.0
5°	839.0	836.4	836.4	836.4	835.1	835.1	833.8	833.8
7.5°	815.5	814.2	812.9	811.6	810.3	808.8	808.8	808.8
10°	791.8	789.2	789.2	787.9	785.3	784.0	784.0	784.0
12.5°	764.4	763.1	761.8	761.8	756.5	757.9	756.5	756.5
15°	738.2	736.9	736.9	733.0	730.4	730.4	730.4	729.1
17.5°	710.7	709.4	708.1	705.5	702.8	702.8	701.5	702.8
20°	681.9	680.6	678.0	678.0	676.7	675.4	672.8	674.1
22.5°	653.2	650.6	649.2	649.2	647.9	647.9	645.3	645.3
25°	623.0	621.7	620.4	621.7	619.1	619.1	616.5	616.5
27.5°	591.6	590.3	590.3	590.3	589.0	590.3	589.0	589.0
30°	560.1	560.1	558.8	558.8	560.1	558.8	560.1	561.6
32.5°	526.2	526.2	527.5	527.5	528.8	528.8	528.8	528.8
35°	490.9	493.5	493.5	494.8	496.1	497.4	497.4	498.7
37.5°	458.1	459.4	460.7	462.0	464.6	464.6	464.6	464.6
40°	422.8	424.1	426.7	425.4	430.6	431.9	430.6	430.6
42.5°	386.2	388.8	390.1	392.7	394.0	396.6	397.9	397.9
45°	352.1	353.4	356.0	358.6	359.9	363.8	363.8	363.8
47.5°	316.8	319.4	320.7	323.3	324.6	328.5	329.9	328.5
50°	282.7	285.3	287.9	287.9	291.8	293.1	295.9	297.2
52.5°	250.0	251.3	253.9	255.2	257.8	260.5	261.8	263.1
55°	218.6	219.9	222.5	222.5	226.5	227.8	230.4	230.4
57.5°	189.8	191.1	193.7	192.4	195.0	197.6	197.6	196.3
60°	162.3	162.3	162.3	164.9	166.2	167.5	168.8	168.8
62.5°	133.4	136.2	137.5	137.5	138.8	140.1	140.1	138.8
65°	107.3	109.9	111.2	111.2	112.5	112.5	112.5	113.8
67.5°	81.2	81.2	81.2	82.5	81.2	81.2	81.2	81.2
70°	51.1	51.1	51.1	51.1	49.8	51.1	51.1	52.4
72.5°	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
75°	11.8	11.8	11.8	13.1	11.8	11.8	11.8	11.8
77.5°	5.2	3.9	5.2	5.2	3.9	3.9	3.9	3.9
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	0.0	1.3	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)