

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: P584055

Luminaire Tested: **HCC8S20D010SL-HM80520930-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584055
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: HCC8S20D010SL-HM80520930-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

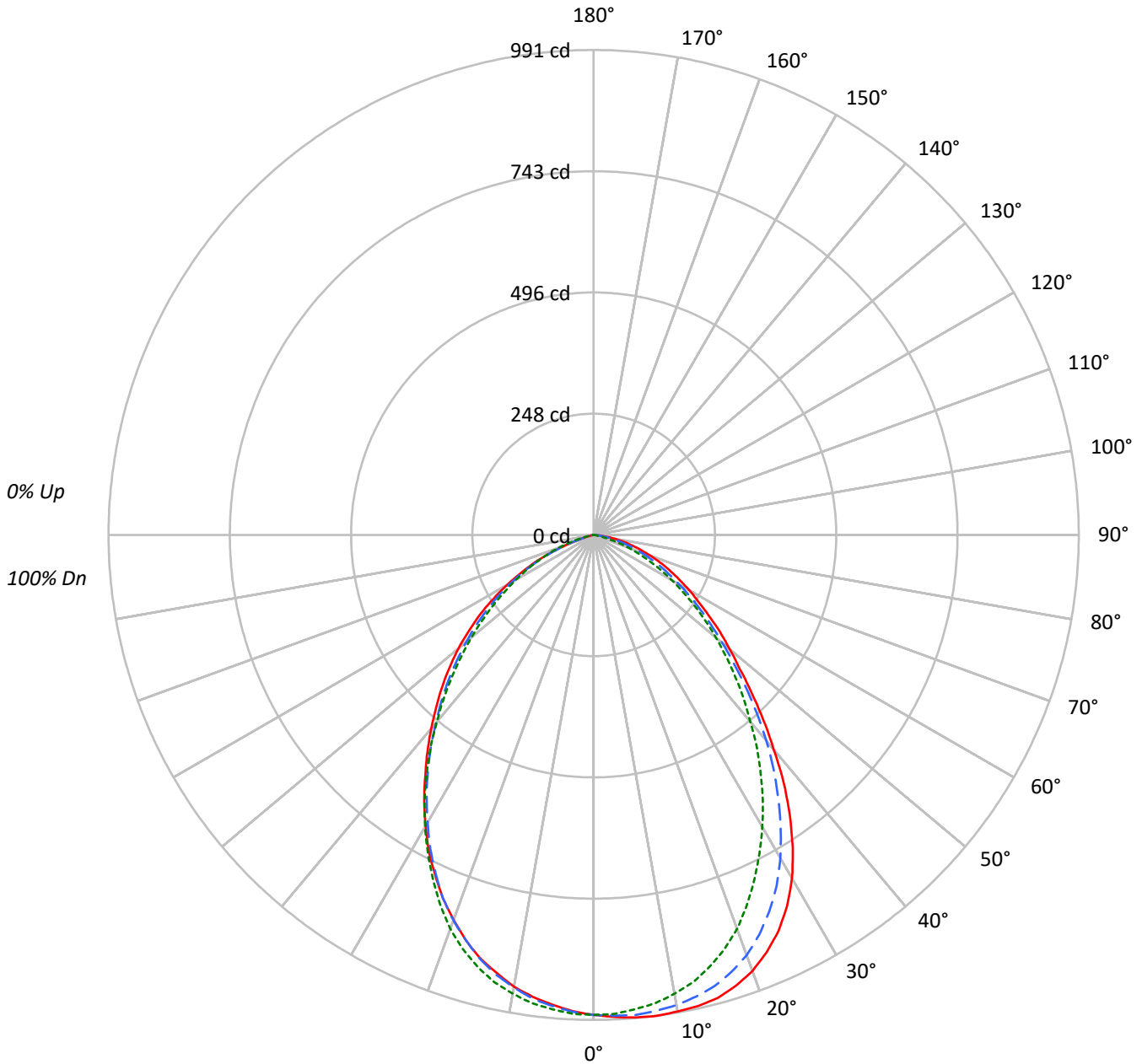
Lumens per Lamp: N/A
Luminaire Lumens: 1864.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P584055
CATALOG NUMBER: HCC8S20D010SL-HM80520930-81RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P584055

CATALOG NUMBER: HCC8S20D010SL-HM80520930-81RWWC

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	85	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°	30244	30244	30244
5°	30641	30115	29834
10°	30955	29809	29358
15°	31270	29179	28594
20°	31112	28103	27457
25°	30387	26423	26066
30°	28863	24526	24433
35°	26276	22379	22575
40°	23033	20030	20767
45°	19873	17814	19070
50°	17405	15644	17280
55°	15419	13446	15209
60°	13889	11305	12594
65°	12513	9070	9653
70°	10972	6609	5319
75°	9365	3431	1406
80°	7192	923	231
85°	4635	0	0



TEST NUMBER: P584055

CATALOG NUMBER: HCC8S20D010SL-HM80520930-81RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	5.0
10°-20°	260.1	14.0
20°-30°	369.2	19.8
30°-40°	388.7	20.9
40°-50°	330.6	17.7
50°-60°	238.9	12.8
60°-70°	135.9	7.3
70°-80°	42.8	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°	721.9	38.7
0°-40°	1110.6	59.6
0°-60°	1680.2	90.1
0°-90°	1864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1864.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	981	981	981	981	981	
5°	990	985	973	966	964	94
15°	980	955	914	897	896	276
25°	893	849	777	764	766	409
35°	698	657	594	590	600	434
45°	456	439	408	419	437	354
55°	287	266	250	264	283	259
65°	172	148	124	123	132	170
75°	79	60	29	13	12	85
85°	13	8	0	0	0	17
90°	0	0	0	0	0	

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



TEST NUMBER: P584055

CATALOG NUMBER: HCC8S20D010SL-HM80520930-81RWWC

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8
2.5°	986.0	987.3	984.7	984.7	987.3	984.7	986.0	986.0	984.7	984.7	983.4
5°	989.9	988.6	988.6	988.6	989.9	987.3	986.0	987.3	984.7	984.7	984.7
7.5°	991.2	991.2	989.9	988.6	988.6	988.6	987.3	986.0	984.7	982.1	980.8
10°	988.6	988.6	989.9	987.3	987.3	984.7	984.7	982.1	982.1	979.5	975.5
12.5°	986.0	984.7	984.7	982.1	982.1	979.5	979.5	975.5	974.2	970.3	966.4
15°	979.5	978.2	975.5	974.2	972.9	971.6	969.0	967.7	963.8	958.5	954.6
17.5°	966.4	965.1	963.8	961.2	958.5	957.2	955.9	952.0	946.8	942.9	936.3
20°	948.1	946.8	946.8	942.9	941.5	937.6	936.3	931.1	927.2	919.2	914.0
22.5°	923.1	924.4	921.8	919.2	916.6	912.7	910.1	904.8	898.3	890.4	883.9
25°	893.1	894.4	891.7	889.1	885.2	882.6	880.0	872.1	865.6	856.4	848.6
27.5°	855.1	855.1	855.1	852.5	846.0	844.7	841.9	834.1	824.9	817.1	809.3
30°	810.6	809.3	809.3	805.3	802.7	797.5	793.6	787.0	780.5	771.3	762.2
32.5°	756.8	758.1	754.2	751.6	747.7	747.7	742.4	737.2	729.4	720.2	711.1
35°	698.0	699.3	696.7	695.4	688.8	687.5	686.2	679.6	674.3	667.8	657.3
37.5°	637.7	636.4	635.1	635.1	631.2	628.6	626.0	622.0	614.2	608.8	603.6
40°	572.2	572.2	572.2	570.9	569.6	567.0	565.7	563.1	557.8	552.6	548.7
42.5°	513.3	513.3	512.0	510.7	508.0	509.4	506.7	504.1	498.9	495.0	492.4
45°	455.7	455.7	455.7	457.0	454.4	450.5	450.5	447.9	445.3	442.7	438.6
47.5°	404.6	408.5	405.9	404.6	405.9	400.7	400.7	398.1	395.5	392.9	387.6
50°	362.8	362.8	362.8	360.2	358.9	358.9	354.8	352.2	350.9	348.3	343.1
52.5°	324.7	322.1	322.1	320.8	319.5	316.9	316.9	314.3	309.1	306.4	302.5
55°	286.8	286.8	285.5	284.2	282.9	281.6	280.3	276.4	273.6	269.7	265.8
57.5°	252.7	255.3	254.0	251.4	248.8	248.8	246.2	243.6	239.6	235.7	231.8
60°	225.2	223.9	223.9	222.6	220.0	218.7	217.4	213.5	209.6	205.5	201.6
62.5°	196.4	196.4	196.4	193.8	191.1	189.8	188.5	185.9	180.7	176.8	174.1
65°	171.5	170.2	168.9	167.6	166.3	163.7	162.4	159.8	155.8	151.9	148.0
67.5°	146.7	145.4	145.4	144.1	140.1	138.8	138.8	134.9	131.0	127.1	123.0
70°	121.7	121.7	121.7	119.1	117.8	116.5	115.2	112.6	108.7	104.7	100.8
72.5°	100.8	99.5	99.5	98.2	94.3	93.0	91.6	89.0	85.1	82.5	79.9
75°	78.6	78.6	77.3	76.0	74.6	73.3	72.0	69.4	65.5	61.6	60.3
77.5°	60.3	59.0	59.0	57.6	55.0	53.7	53.7	51.1	47.2	44.6	42.0
80°	40.5	42.0	40.5	39.2	37.9	36.6	35.3	34.0	31.4	28.8	26.2
82.5°	24.8	26.2	24.8	24.8	23.5	22.2	22.2	19.6	18.3	17.0	15.7
85°	13.1	13.1	13.1	13.1	11.8	11.8	11.8	10.5	9.2	7.8	7.8
87.5°	3.9	5.2	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: P584055

CATALOG NUMBER: HCC8S20D010SL-HM80520930-81RWWC

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8
2.5°	984.7	983.4	982.1	982.1	982.1	982.1	982.1	980.8	979.5	979.5	979.5
5°	982.1	982.1	982.1	980.8	979.5	979.5	976.9	975.5	974.2	972.9	971.6
7.5°	979.5	976.9	975.5	974.2	972.9	972.9	970.3	967.7	967.7	965.1	962.5
10°	971.6	970.3	967.7	965.1	963.8	962.5	959.9	955.9	954.6	952.0	949.4
12.5°	962.5	959.9	957.2	952.0	950.7	949.4	944.2	940.2	937.6	936.3	929.8
15°	950.7	945.5	941.5	935.0	933.7	931.1	927.2	923.1	917.9	914.0	911.4
17.5°	929.8	924.4	917.9	911.4	908.7	908.7	902.2	897.0	890.4	887.8	882.6
20°	904.8	898.3	893.1	885.2	881.3	877.4	873.4	865.6	860.4	856.4	849.9
22.5°	876.1	866.9	860.4	852.5	846.0	841.9	835.4	828.9	822.3	818.4	813.2
25°	839.3	831.5	821.0	813.2	809.3	804.0	796.2	789.6	783.1	776.6	773.9
27.5°	798.8	788.3	779.2	770.0	766.1	762.2	752.9	745.1	739.8	733.3	730.7
30°	754.2	743.8	733.3	725.4	721.5	715.0	709.8	700.6	694.1	688.8	682.3
32.5°	703.2	695.4	686.2	674.3	671.7	666.5	658.6	654.7	646.9	643.0	637.7
35°	648.2	643.0	633.8	624.6	620.7	618.1	611.6	603.6	598.4	594.5	591.8
37.5°	595.8	589.2	580.1	573.5	570.9	567.0	559.2	555.2	550.0	547.4	542.1
40°	539.5	533.0	526.5	522.4	518.5	515.9	510.7	506.7	501.5	497.6	496.3
42.5°	484.5	480.6	475.3	470.1	468.8	464.9	462.3	458.3	454.4	453.1	449.2
45°	434.7	430.8	425.6	420.3	419.0	416.4	415.1	411.2	408.5	408.5	408.5
47.5°	385.0	381.1	375.9	373.2	374.5	369.3	369.3	368.0	365.4	365.4	366.7
50°	340.4	335.2	333.9	331.3	328.7	326.1	327.4	323.4	323.4	326.1	324.7
52.5°	298.6	293.4	292.1	289.4	288.1	288.1	286.8	286.8	285.5	286.8	286.8
55°	260.6	256.6	254.0	251.4	250.1	250.1	250.1	248.8	247.5	250.1	251.4
57.5°	226.6	225.2	222.6	218.7	217.4	216.1	214.8	214.8	214.8	214.8	216.1
60°	196.4	193.8	191.1	187.2	187.2	185.9	184.6	183.3	183.3	183.3	183.3
62.5°	170.2	166.3	162.4	159.8	158.4	157.1	155.8	153.2	153.2	153.2	153.2
65°	144.1	140.1	137.5	134.9	132.3	132.3	129.7	128.4	125.8	124.3	121.7
67.5°	119.1	116.5	113.9	110.0	108.7	107.3	104.7	103.4	99.5	98.2	96.9
70°	96.9	93.0	90.3	87.7	86.4	83.8	81.2	78.6	76.0	73.3	70.7
72.5°	76.0	72.0	69.4	66.8	64.2	64.2	60.3	57.6	53.7	51.1	47.2
75°	56.3	52.4	49.8	45.9	44.6	43.3	39.2	36.6	32.7	28.8	26.2
77.5°	37.9	35.3	32.7	28.8	26.2	26.2	22.2	19.6	17.0	13.1	11.8
80°	23.5	20.9	18.3	15.7	15.7	13.1	11.8	9.2	6.5	5.2	3.9
82.5°	13.1	11.8	10.5	7.8	7.8	6.5	5.2	3.9	2.6	1.3	1.3
85°	6.5	5.2	3.9	3.9	2.6	2.6	2.6	1.3	1.3	0.0	0.0
87.5°	2.6	1.3	1.3	1.3	1.3	1.3	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: P584055

CATALOG NUMBER: HCC8S20D010SL-HM80520930-81RWWC

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8
2.5°	978.2	978.2	976.9	976.9	976.9	975.5	976.9	975.5	975.5	975.5	976.9
5°	972.9	970.3	970.3	969.0	969.0	967.7	969.0	967.7	966.4	965.1	966.4
7.5°	962.5	959.9	958.5	957.2	957.2	957.2	955.9	954.6	955.9	952.0	954.6
10°	948.1	946.8	944.2	942.9	941.5	942.9	941.5	938.9	938.9	938.9	937.6
12.5°	929.8	927.2	925.7	924.4	921.8	921.8	923.1	920.5	920.5	917.9	917.9
15°	907.4	904.8	902.2	902.2	899.6	899.6	898.3	898.3	897.0	895.7	895.7
17.5°	880.0	876.1	873.4	874.7	873.4	872.1	872.1	869.5	868.2	869.5	869.5
20°	847.3	844.7	841.9	843.4	840.6	839.3	840.6	836.7	838.0	838.0	838.0
22.5°	810.6	809.3	805.3	805.3	802.7	801.4	802.7	802.7	804.0	802.7	802.7
25°	770.0	767.4	764.8	764.8	763.5	762.2	763.5	764.8	763.5	764.8	764.8
27.5°	726.8	722.8	722.8	720.2	720.2	721.5	720.2	721.5	722.8	722.8	725.4
30°	679.6	678.3	677.0	675.6	675.6	677.0	677.0	677.0	678.3	681.0	681.0
32.5°	635.1	632.5	629.9	629.9	632.5	631.2	632.5	632.5	635.1	635.1	637.7
35°	586.6	586.6	584.0	585.3	585.3	585.3	585.3	587.9	590.5	591.8	594.5
37.5°	542.1	538.2	539.5	539.5	540.8	539.5	543.5	543.5	546.1	546.1	548.7
40°	493.7	493.7	495.0	493.7	495.0	495.0	497.6	500.2	501.5	504.1	505.4
42.5°	447.9	450.5	447.9	449.2	450.5	451.8	453.1	454.4	459.7	462.3	466.2
45°	405.9	407.2	408.5	409.9	408.5	411.2	412.5	415.1	419.0	420.3	421.6
47.5°	365.4	366.7	368.0	369.3	369.3	371.9	373.2	375.9	378.5	379.8	381.1
50°	326.1	328.7	330.0	330.0	331.3	333.9	336.5	336.5	339.1	343.1	344.4
52.5°	290.7	290.7	293.4	294.7	296.0	296.0	299.9	301.2	302.5	305.1	307.7
55°	251.4	255.3	256.6	256.6	259.3	261.9	263.2	264.5	264.5	269.7	269.7
57.5°	217.4	218.7	221.3	221.3	221.3	225.2	225.2	227.9	229.2	230.5	233.1
60°	183.3	185.9	185.9	187.2	185.9	188.5	189.8	192.5	193.8	195.1	196.4
62.5°	151.9	151.9	153.2	153.2	153.2	153.2	155.8	155.8	158.4	159.8	161.1
65°	121.7	121.7	121.7	121.7	121.7	121.7	121.7	121.7	123.0	123.0	125.8
67.5°	94.3	93.0	90.3	91.6	90.3	90.3	89.0	89.0	90.3	90.3	93.0
70°	68.1	66.8	64.2	64.2	62.9	61.6	60.3	59.0	57.6	57.6	57.6
72.5°	44.6	42.0	37.9	36.6	36.6	34.0	31.4	30.1	30.1	30.1	30.1
75°	22.2	19.6	17.0	15.7	15.7	13.1	14.4	13.1	13.1	13.1	13.1
77.5°	9.2	6.5	5.2	5.2	5.2	3.9	3.9	3.9	3.9	3.9	3.9
80°	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	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: P584055

CATALOG NUMBER: HCC8S20D010SL-HM80520930-81RWWC

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8
2.5°	975.5	975.5	972.9	974.2	974.2	974.2	974.2	974.2
5°	963.8	965.1	963.8	965.1	965.1	963.8	963.8	963.8
7.5°	952.0	953.3	952.0	953.3	953.3	953.3	952.0	952.0
10°	937.6	937.6	937.6	937.6	937.6	936.3	937.6	937.6
12.5°	917.9	917.9	917.9	919.2	919.2	917.9	917.9	916.6
15°	897.0	894.4	895.7	897.0	895.7	895.7	895.7	895.7
17.5°	868.2	869.5	868.2	868.2	868.2	868.2	869.5	868.2
20°	838.0	838.0	839.3	838.0	838.0	838.0	838.0	836.7
22.5°	804.0	802.7	802.7	804.0	804.0	802.7	804.0	804.0
25°	766.1	767.4	766.1	766.1	767.4	767.4	767.4	766.1
27.5°	725.4	726.8	728.1	726.8	726.8	726.8	728.1	729.4
30°	683.6	686.2	683.6	683.6	686.2	684.9	686.2	686.2
32.5°	639.0	643.0	640.3	643.0	643.0	644.3	643.0	644.3
35°	594.5	598.4	598.4	598.4	599.7	601.0	601.0	599.7
37.5°	552.6	553.9	553.9	556.5	557.8	559.2	559.2	557.8
40°	509.4	512.0	513.3	513.3	513.3	515.9	518.5	515.9
42.5°	467.5	468.8	470.1	470.1	472.7	474.0	475.3	475.3
45°	426.9	429.5	430.8	432.1	433.4	436.0	434.7	437.3
47.5°	385.0	388.9	390.2	391.5	394.2	395.5	396.8	398.1
50°	347.0	349.6	349.6	352.2	356.1	356.1	358.9	360.2
52.5°	309.1	310.4	311.7	313.0	315.6	318.2	318.2	320.8
55°	272.3	273.6	273.6	274.9	276.4	281.6	282.9	282.9
57.5°	234.4	234.4	237.0	238.3	239.6	242.3	242.3	242.3
60°	197.7	199.0	199.0	200.3	201.6	204.2	205.5	204.2
62.5°	161.1	162.4	162.4	163.7	166.3	167.6	166.3	166.3
65°	127.1	128.4	128.4	129.7	132.3	132.3	131.0	132.3
67.5°	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
70°	59.0	57.6	56.3	57.6	57.6	57.6	56.3	59.0
72.5°	28.8	30.1	30.1	30.1	30.1	30.1	30.1	28.8
75°	13.1	13.1	11.8	11.8	11.8	13.1	13.1	11.8
77.5°	3.9	3.9	3.9	3.9	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°	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)