

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO COMMERCIAL

Report Number: P775764

Luminaire Tested: HCDJBL510CSD-HCD62TRMW-1000lm-5000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B057-HCD62TRMW)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD62TRMW-1000lm-5000K
Description: 6 INCH ROUND NARROW MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1182.5 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

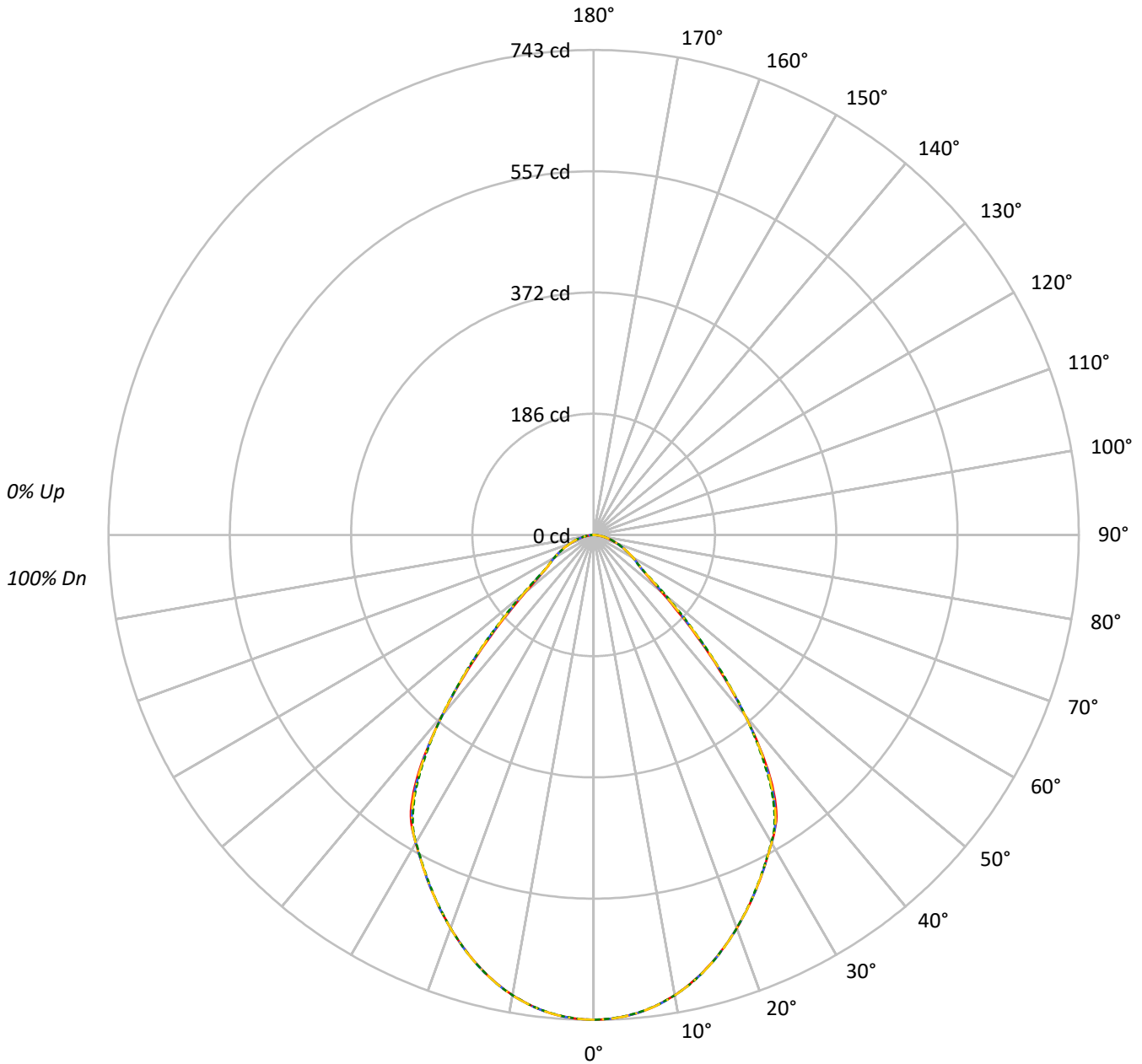
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79																			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71																			
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63																			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57																			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52																			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47																			
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40																			
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	40720	40720	40720	40720
5°	40507	40485	40507	40485
10°	39857	39857	39857	39857
15°	38769	38786	38769	38786
20°	37395	37383	37395	37383
25°	35911	35851	35911	35851
30°	34499	34442	34499	34442
35°	32170	31701	32170	31701
40°	25820	25856	25820	25856
45°	18072	18614	18072	18614
50°	11548	12307	11548	12307
55°	8401	8535	8401	8535
60°	7631	7598	7631	7598
65°	6862	6823	6862	6823
70°	6075	6171	6075	6171
75°	5295	5571	5295	5571
80°	4388	4956	4388	4956
85°	2705	4088	2705	4088

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 18614 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	5.9
10°-20°	192.1	16.2
20°-30°	273.2	23.1
30°-40°	292.0	24.7
40°-50°	184.5	15.6
50°-60°	84.0	7.1
60°-70°	52.6	4.4
70°-80°	27.6	2.3
80°-90°	6.8	0.6
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°	534.9	45.2
0°-40°	827.0	69.9
0°-60°	1095.5	92.6
0°-90°	1182.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1182.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	743	743	743	743	743	
5°	736	736	736	736	736	70
15°	683	683	683	683	683	192
25°	594	593	594	593	594	273
35°	481	474	481	474	481	293
45°	233	240	233	240	233	182
55°	88	89	88	89	88	83
65°	53	53	53	53	53	53
75°	25	26	25	26	25	27
85°	4	6	4	6	4	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8
0.5°	742.7	742.8	742.7	742.7	742.4	742.7	742.7	742.8	742.7	742.8	742.7
1°	742.5	742.6	742.6	742.5	742.1	742.5	742.6	742.6	742.5	742.6	742.6
1.5°	742.1	742.2	742.1	742.1	741.8	742.1	742.1	742.2	742.1	742.2	742.1
2°	741.7	741.7	741.7	741.7	741.3	741.7	741.7	741.7	741.7	741.7	741.7
2.5°	741.1	741.1	741.2	741.1	740.8	741.1	741.2	741.1	741.1	741.1	741.2
3°	740.3	740.4	740.4	740.4	740.0	740.4	740.4	740.4	740.3	740.4	740.4
3.5°	739.5	739.5	739.6	739.6	739.2	739.6	739.6	739.5	739.5	739.5	739.6
4°	738.5	738.5	738.5	738.5	738.2	738.5	738.5	738.5	738.5	738.5	738.5
4.5°	737.3	737.5	737.5	737.5	737.0	737.5	737.5	737.5	737.3	737.5	737.5
5°	736.1	736.2	736.2	736.2	735.7	736.2	736.2	736.2	736.1	736.2	736.2
5.5°	734.7	734.8	734.8	734.8	734.4	734.8	734.8	734.8	734.7	734.8	734.8
6°	733.2	733.2	733.2	733.2	732.9	733.2	733.2	733.2	733.2	733.2	733.2
6.5°	731.5	731.5	731.6	731.6	731.3	731.6	731.6	731.5	731.5	731.5	731.6
7°	729.7	729.8	729.8	729.8	729.5	729.8	729.8	729.8	729.7	729.8	729.8
7.5°	727.8	727.8	727.9	727.9	727.5	727.9	727.9	727.8	727.8	727.8	727.9
8°	725.6	725.7	725.8	725.8	725.5	725.8	725.8	725.7	725.6	725.7	725.8
8.5°	723.4	723.5	723.6	723.6	723.3	723.6	723.6	723.5	723.4	723.5	723.6
9°	721.0	721.1	721.3	721.4	721.0	721.4	721.3	721.1	721.0	721.1	721.3
9.5°	718.6	718.7	718.8	718.9	718.6	718.9	718.8	718.7	718.6	718.7	718.8
10°	716.0	716.0	716.1	716.4	716.0	716.4	716.1	716.0	716.0	716.0	716.1
10.5°	713.3	713.3	713.5	713.6	713.3	713.6	713.5	713.3	713.3	713.3	713.5
11°	710.4	710.4	710.6	710.8	710.4	710.8	710.6	710.4	710.4	710.4	710.6
11.5°	707.3	707.4	707.6	707.8	707.5	707.8	707.6	707.4	707.3	707.4	707.6
12°	704.2	704.3	704.5	704.7	704.4	704.7	704.5	704.3	704.2	704.3	704.5
12.5°	701.0	701.1	701.2	701.4	701.2	701.4	701.2	701.1	701.0	701.1	701.2
13°	697.6	697.7	697.9	698.1	697.9	698.1	697.9	697.7	697.6	697.7	697.9
13.5°	694.2	694.3	694.5	694.7	694.4	694.7	694.5	694.3	694.2	694.3	694.5
14°	690.6	690.8	691.0	691.1	690.9	691.1	691.0	690.8	690.6	690.8	691.0
14.5°	686.9	687.0	687.3	687.5	687.3	687.5	687.3	687.0	686.9	687.0	687.3
15°	683.1	683.3	683.5	683.7	683.4	683.7	683.5	683.3	683.1	683.3	683.5
15.5°	679.3	679.4	679.6	679.8	679.5	679.8	679.6	679.4	679.3	679.4	679.6
16°	675.2	675.4	675.6	675.9	675.5	675.9	675.6	675.4	675.2	675.4	675.6
16.5°	671.3	671.4	671.6	671.8	671.5	671.8	671.6	671.4	671.3	671.4	671.6
17°	667.1	667.2	667.4	667.6	667.3	667.6	667.4	667.2	667.1	667.2	667.4
17.5°	663.0	663.0	663.2	663.4	663.1	663.4	663.2	663.0	663.0	663.0	663.2
18°	658.6	658.8	658.9	659.0	658.7	659.0	658.9	658.8	658.6	658.8	658.9
18.5°	654.2	654.4	654.5	654.6	654.3	654.6	654.5	654.4	654.2	654.4	654.5
19°	649.9	650.1	650.2	650.2	650.0	650.2	650.2	650.1	649.9	650.1	650.2
19.5°	645.5	645.6	645.7	645.8	645.5	645.8	645.7	645.6	645.5	645.6	645.7
20°	641.0	641.1	641.2	641.2	640.8	641.2	641.2	641.1	641.0	641.1	641.2
20.5°	636.5	636.5	636.5	636.5	636.2	636.5	636.5	636.5	636.5	636.5	636.5
21°	631.7	631.8	631.9	631.8	631.5	631.8	631.9	631.8	631.7	631.8	631.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	617.9	617.9	617.8	617.7	617.2	617.7	617.8	617.9	617.9	617.9	617.8
23°	613.1	613.1	613.0	612.9	612.4	612.9	613.0	613.1	613.1	613.1	613.0
23.5°	608.3	608.3	608.2	608.0	607.7	608.0	608.2	608.3	608.3	608.3	608.2
24°	603.5	603.5	603.4	603.1	602.6	603.1	603.4	603.5	603.5	603.5	603.4
24.5°	598.7	598.6	598.5	598.2	597.7	598.2	598.5	598.6	598.7	598.6	598.5
25°	593.7	593.7	593.6	593.3	592.7	593.3	593.6	593.7	593.7	593.7	593.6
25.5°	588.8	588.8	588.7	588.3	587.8	588.3	588.7	588.8	588.8	588.8	588.7
26°	583.9	583.9	583.8	583.5	582.9	583.5	583.8	583.9	583.9	583.9	583.8
26.5°	578.9	578.9	578.8	578.3	577.9	578.3	578.8	578.9	578.9	578.9	578.8
27°	573.9	574.0	573.9	573.4	572.9	573.4	573.9	574.0	573.9	574.0	573.9
27.5°	569.0	569.0	568.9	568.5	568.0	568.5	568.9	569.0	569.0	569.0	568.9
28°	563.9	564.1	564.0	563.6	563.2	563.6	564.0	564.1	563.9	564.1	564.0
28.5°	559.1	559.3	559.2	558.8	558.4	558.8	559.2	559.3	559.1	559.3	559.2
29°	554.3	554.5	554.4	554.2	553.6	554.2	554.4	554.5	554.3	554.5	554.4
29.5°	549.6	549.7	549.7	549.4	548.9	549.4	549.7	549.7	549.6	549.7	549.7
30°	545.0	545.0	545.0	544.6	544.1	544.6	545.0	545.0	545.0	545.0	545.0
30.5°	540.3	540.4	540.2	539.9	539.3	539.9	540.2	540.4	540.3	540.4	540.2
31°	535.7	535.7	535.5	535.0	534.3	535.0	535.5	535.7	535.7	535.7	535.5
31.5°	530.8	530.8	530.4	529.9	529.0	529.9	530.4	530.8	530.8	530.8	530.4
32°	525.8	525.5	524.7	523.8	522.6	523.8	524.7	525.5	525.8	525.5	524.7
32.5°	520.4	519.6	518.5	516.9	515.5	516.9	518.5	519.6	520.4	519.6	518.5
33°	514.2	513.3	511.3	509.5	508.0	509.5	511.3	513.3	514.2	513.3	511.3
33.5°	507.1	506.3	503.5	501.6	500.1	501.6	503.5	506.3	507.1	506.3	503.5
34°	499.0	498.6	495.3	493.2	491.9	493.2	495.3	498.6	499.0	498.6	495.3
34.5°	490.1	489.6	486.6	484.2	483.1	484.2	486.6	489.6	490.1	489.6	486.6
35°	480.7	479.9	477.3	474.8	473.7	474.8	477.3	479.9	480.7	479.9	477.3
35.5°	470.8	469.6	467.6	465.0	463.6	465.0	467.6	469.6	470.8	469.6	467.6
36°	460.3	458.8	457.5	454.8	453.1	454.8	457.5	458.8	460.3	458.8	457.5
36.5°	449.2	447.6	446.7	444.2	442.0	444.2	446.7	447.6	449.2	447.6	446.7
37°	437.6	436.1	435.4	433.1	431.0	433.1	435.4	436.1	437.6	436.1	435.4
37.5°	425.4	424.4	423.7	421.8	419.7	421.8	423.7	424.4	425.4	424.4	423.7
38°	412.8	412.2	411.6	410.3	408.5	410.3	411.6	412.2	412.8	412.2	411.6
38.5°	400.0	400.0	398.9	398.5	396.9	398.5	398.9	400.0	400.0	400.0	398.9
39°	387.2	387.4	386.3	386.2	385.6	386.2	386.3	387.4	387.2	387.4	386.3
39.5°	374.1	374.4	373.3	373.6	373.5	373.6	373.3	374.4	374.1	374.4	373.3
40°	360.8	361.5	360.5	361.1	361.3	361.1	360.5	361.5	360.8	361.5	360.5
40.5°	347.4	348.4	347.7	348.6	348.8	348.6	347.7	348.4	347.4	348.4	347.7
41°	334.3	335.4	335.2	335.9	336.6	335.9	335.2	335.4	334.3	335.4	335.2
41.5°	321.3	322.0	322.7	323.6	324.0	323.6	322.7	322.0	321.3	322.0	322.7
42°	308.3	308.9	310.2	311.1	311.9	311.1	310.2	308.9	308.3	308.9	310.2
42.5°	295.4	296.0	297.9	298.9	299.7	298.9	297.9	296.0	295.4	296.0	297.9
43°	282.5	283.4	285.7	286.7	287.4	286.7	285.7	283.4	282.5	283.4	285.7
43.5°	269.8	270.6	273.5	274.4	275.1	274.4	273.5	270.6	269.8	270.6	273.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	233.1	234.3	237.5	239.4	240.1	239.4	237.5	234.3	233.1	234.3	237.5
45.5°	221.2	222.8	226.1	228.2	228.9	228.2	226.1	222.8	221.2	222.8	226.1
46°	209.9	211.8	214.9	217.3	218.3	217.3	214.9	211.8	209.9	211.8	214.9
46.5°	199.0	201.0	204.1	206.7	207.8	206.7	204.1	201.0	199.0	201.0	204.1
47°	188.3	190.5	193.5	196.4	197.6	196.4	193.5	190.5	188.3	190.5	193.5
47.5°	178.2	180.3	183.5	186.5	187.6	186.5	183.5	180.3	178.2	180.3	183.5
48°	168.6	170.7	173.9	177.0	178.2	177.0	173.9	170.7	168.6	170.7	173.9
48.5°	159.6	161.5	164.6	167.8	169.1	167.8	164.6	161.5	159.6	161.5	164.6
49°	151.0	152.7	155.8	159.2	160.4	159.2	155.8	152.7	151.0	152.7	155.8
49.5°	142.9	144.4	147.6	150.8	152.2	150.8	147.6	144.4	142.9	144.4	147.6
50°	135.4	136.5	139.8	143.0	144.3	143.0	139.8	136.5	135.4	136.5	139.8
50.5°	128.5	129.3	132.6	135.6	136.8	135.6	132.6	129.3	128.5	129.3	132.6
51°	122.1	122.8	125.8	128.4	129.9	128.4	125.8	122.8	122.1	122.8	125.8
51.5°	116.2	116.7	119.5	121.9	123.3	121.9	119.5	116.7	116.2	116.7	119.5
52°	110.7	111.3	113.8	115.8	117.0	115.8	113.8	111.3	110.7	111.3	113.8
52.5°	105.7	106.1	108.4	110.1	111.2	110.1	108.4	106.1	105.7	106.1	108.4
53°	101.1	101.9	103.5	104.9	105.7	104.9	103.5	101.9	101.1	101.9	103.5
53.5°	97.5	97.9	99.0	100.2	100.8	100.2	99.0	97.9	97.5	97.9	99.0
54°	94.1	94.2	95.0	95.8	96.3	95.8	95.0	94.2	94.1	94.2	95.0
54.5°	91.0	91.0	91.3	92.0	92.6	92.0	91.3	91.0	91.0	91.0	91.3
55°	87.9	88.0	88.5	88.9	89.3	88.9	88.5	88.0	87.9	88.0	88.5
55.5°	85.0	85.5	85.9	86.2	87.0	86.2	85.9	85.5	85.0	85.5	85.9
56°	83.0	83.2	83.5	83.8	84.6	83.8	83.5	83.2	83.0	83.2	83.5
56.5°	81.3	81.3	81.3	81.5	82.3	81.5	81.3	81.3	81.3	81.3	81.3
57°	79.7	79.7	79.5	79.4	79.9	79.4	79.5	79.7	79.7	79.7	79.5
57.5°	78.2	78.1	77.9	77.7	77.6	77.7	77.9	78.1	78.2	78.1	77.9
58°	76.6	76.5	76.3	76.1	75.9	76.1	76.3	76.5	76.6	76.5	76.3
58.5°	74.9	74.8	74.6	74.4	74.3	74.4	74.6	74.8	74.9	74.8	74.6
59°	73.2	73.1	73.0	72.8	72.6	72.8	73.0	73.1	73.2	73.1	73.0
59.5°	71.4	71.4	71.2	71.1	71.0	71.1	71.2	71.4	71.4	71.4	71.2
60°	69.6	69.6	69.5	69.4	69.3	69.4	69.5	69.6	69.6	69.6	69.5
60.5°	67.8	67.8	67.7	67.6	67.5	67.6	67.7	67.8	67.8	67.8	67.7
61°	66.1	66.1	66.0	65.9	65.8	65.9	66.0	66.1	66.1	66.1	66.0
61.5°	64.4	64.4	64.3	64.2	64.0	64.2	64.3	64.4	64.4	64.4	64.3
62°	62.7	62.7	62.6	62.4	62.3	62.4	62.6	62.7	62.7	62.7	62.6
62.5°	61.0	61.0	60.9	60.7	60.6	60.7	60.9	61.0	61.0	61.0	60.9
63°	59.4	59.3	59.3	59.0	59.0	59.0	59.3	59.3	59.4	59.3	59.3
63.5°	57.7	57.7	57.5	57.4	57.4	57.4	57.5	57.7	57.7	57.7	57.5
64°	56.1	56.1	55.9	55.8	55.7	55.8	55.9	56.1	56.1	56.1	55.9
64.5°	54.5	54.5	54.3	54.2	54.2	54.2	54.3	54.5	54.5	54.5	54.3
65°	52.9	53.0	52.9	52.8	52.6	52.8	52.9	53.0	52.9	53.0	52.9
65.5°	51.3	51.4	51.4	51.3	51.2	51.3	51.4	51.4	51.3	51.4	51.4
66°	49.8	49.9	49.8	49.7	49.7	49.7	49.8	49.9	49.8	49.9	49.8



TEST NUMBER: P775764

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	45.2	45.4	45.4	45.3	45.3	45.3	45.4	45.4	45.2	45.4	45.4
68°	43.7	43.9	44.0	43.9	43.9	43.9	44.0	43.9	43.7	43.9	44.0
68.5°	42.3	42.5	42.6	42.5	42.5	42.5	42.6	42.5	42.3	42.5	42.6
69°	40.8	41.1	41.2	41.2	41.1	41.2	41.2	41.1	40.8	41.1	41.2
69.5°	39.3	39.7	40.0	39.9	39.9	39.9	40.0	39.7	39.3	39.7	40.0
70°	37.9	38.3	38.6	38.6	38.5	38.6	38.6	38.3	37.9	38.3	38.6
70.5°	36.6	37.0	37.3	37.2	37.2	37.2	37.3	37.0	36.6	37.0	37.3
71°	35.3	35.7	36.0	36.0	35.9	36.0	36.0	35.7	35.3	35.7	36.0
71.5°	33.9	34.3	34.7	34.7	34.6	34.7	34.7	34.3	33.9	34.3	34.7
72°	32.6	33.0	33.5	33.5	33.4	33.5	33.5	33.0	32.6	33.0	33.5
72.5°	31.3	31.8	32.3	32.2	32.2	32.2	32.3	31.8	31.3	31.8	32.3
73°	29.9	30.5	31.0	31.0	30.9	31.0	31.0	30.5	29.9	30.5	31.0
73.5°	28.7	29.2	29.8	29.8	29.7	29.8	29.8	29.2	28.7	29.2	29.8
74°	27.5	27.9	28.6	28.7	28.6	28.7	28.6	27.9	27.5	27.9	28.6
74.5°	26.2	26.7	27.4	27.5	27.4	27.5	27.4	26.7	26.2	26.7	27.4
75°	25.0	25.5	26.2	26.3	26.3	26.3	26.2	25.5	25.0	25.5	26.2
75.5°	23.9	24.3	25.2	25.2	25.2	25.2	25.2	24.3	23.9	24.3	25.2
76°	22.7	23.1	24.0	24.1	24.1	24.1	24.0	23.1	22.7	23.1	24.0
76.5°	21.5	22.0	22.8	23.0	22.9	23.0	22.8	22.0	21.5	22.0	22.8
77°	20.4	20.9	21.7	22.0	21.8	22.0	21.7	20.9	20.4	20.9	21.7
77.5°	19.2	19.7	20.7	20.9	20.8	20.9	20.7	19.7	19.2	19.7	20.7
78°	18.1	18.6	19.5	19.8	19.7	19.8	19.5	18.6	18.1	18.6	19.5
78.5°	17.1	17.5	18.4	18.8	18.8	18.8	18.4	17.5	17.1	17.5	18.4
79°	16.0	16.4	17.4	17.7	17.7	17.7	17.4	16.4	16.0	16.4	17.4
79.5°	14.9	15.3	16.4	16.7	16.7	16.7	16.4	15.3	14.9	15.3	16.4
80°	13.9	14.3	15.3	15.7	15.7	15.7	15.3	14.3	13.9	14.3	15.3
80.5°	12.9	13.3	14.4	14.7	14.7	14.7	14.4	13.3	12.9	13.3	14.4
81°	11.8	12.3	13.3	13.7	13.7	13.7	13.3	12.3	11.8	12.3	13.3
81.5°	10.9	11.2	12.4	12.8	12.8	12.8	12.4	11.2	10.9	11.2	12.4
82°	9.9	10.2	11.4	11.8	11.8	11.8	11.4	10.2	9.9	10.2	11.4
82.5°	8.8	9.3	10.4	11.0	11.0	11.0	10.4	9.3	8.8	9.3	10.4
83°	7.9	8.3	9.5	10.0	10.0	10.0	9.5	8.3	7.9	8.3	9.5
83.5°	6.9	7.4	8.6	9.2	9.1	9.2	8.6	7.4	6.9	7.4	8.6
84°	6.1	6.4	7.8	8.2	8.2	8.2	7.8	6.4	6.1	6.4	7.8
84.5°	5.1	5.4	6.9	7.4	7.4	7.4	6.9	5.4	5.1	5.4	6.9
85°	4.3	4.6	6.1	6.5	6.5	6.5	6.1	4.6	4.3	4.6	6.1
85.5°	3.4	3.8	5.2	5.6	5.6	5.6	5.2	3.8	3.4	3.8	5.2
86°	2.8	3.1	4.5	4.8	4.8	4.8	4.5	3.1	2.8	3.1	4.5
86.5°	2.2	2.6	3.6	3.9	4.0	3.9	3.6	2.6	2.2	2.6	3.6
87°	1.7	2.0	3.0	3.2	3.2	3.2	3.0	2.0	1.7	2.0	3.0
87.5°	1.3	1.5	2.2	2.5	2.5	2.5	2.2	1.5	1.3	1.5	2.2
88°	0.9	1.1	1.6	1.7	1.8	1.7	1.6	1.1	0.9	1.1	1.6
88.5°	0.4	0.6	1.1	1.3	1.4	1.3	1.1	0.6	0.4	0.6	1.1



TEST NUMBER: P775764
CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.1	0.1	0.2	0.3	0.2	0.1	0.1	0.0	0.1	0.1



TEST NUMBER: P775764

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	742.8	742.8	742.8	742.8	742.8	742.8
0.5°	742.7	742.4	742.7	742.7	742.8	742.7
1°	742.5	742.1	742.5	742.6	742.6	742.5
1.5°	742.1	741.8	742.1	742.1	742.2	742.1
2°	741.7	741.3	741.7	741.7	741.7	741.7
2.5°	741.1	740.8	741.1	741.2	741.1	741.1
3°	740.4	740.0	740.4	740.4	740.4	740.3
3.5°	739.6	739.2	739.6	739.6	739.5	739.5
4°	738.5	738.2	738.5	738.5	738.5	738.5
4.5°	737.5	737.0	737.5	737.5	737.5	737.3
5°	736.2	735.7	736.2	736.2	736.2	736.1
5.5°	734.8	734.4	734.8	734.8	734.8	734.7
6°	733.2	732.9	733.2	733.2	733.2	733.2
6.5°	731.6	731.3	731.6	731.6	731.5	731.5
7°	729.8	729.5	729.8	729.8	729.8	729.7
7.5°	727.9	727.5	727.9	727.9	727.8	727.8
8°	725.8	725.5	725.8	725.8	725.7	725.6
8.5°	723.6	723.3	723.6	723.6	723.5	723.4
9°	721.4	721.0	721.4	721.3	721.1	721.0
9.5°	718.9	718.6	718.9	718.8	718.7	718.6
10°	716.4	716.0	716.4	716.1	716.0	716.0
10.5°	713.6	713.3	713.6	713.5	713.3	713.3
11°	710.8	710.4	710.8	710.6	710.4	710.4
11.5°	707.8	707.5	707.8	707.6	707.4	707.3
12°	704.7	704.4	704.7	704.5	704.3	704.2
12.5°	701.4	701.2	701.4	701.2	701.1	701.0
13°	698.1	697.9	698.1	697.9	697.7	697.6
13.5°	694.7	694.4	694.7	694.5	694.3	694.2
14°	691.1	690.9	691.1	691.0	690.8	690.6
14.5°	687.5	687.3	687.5	687.3	687.0	686.9
15°	683.7	683.4	683.7	683.5	683.3	683.1
15.5°	679.8	679.5	679.8	679.6	679.4	679.3
16°	675.9	675.5	675.9	675.6	675.4	675.2
16.5°	671.8	671.5	671.8	671.6	671.4	671.3
17°	667.6	667.3	667.6	667.4	667.2	667.1
17.5°	663.4	663.1	663.4	663.2	663.0	663.0
18°	659.0	658.7	659.0	658.9	658.8	658.6
18.5°	654.6	654.3	654.6	654.5	654.4	654.2
19°	650.2	650.0	650.2	650.2	650.1	649.9
19.5°	645.8	645.5	645.8	645.7	645.6	645.5
20°	641.2	640.8	641.2	641.2	641.1	641.0
20.5°	636.5	636.2	636.5	636.5	636.5	636.5
21°	631.8	631.5	631.8	631.9	631.8	631.7

TEST NUMBER: P775764

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	617.7	617.2	617.7	617.8	617.9	617.9
23°	612.9	612.4	612.9	613.0	613.1	613.1
23.5°	608.0	607.7	608.0	608.2	608.3	608.3
24°	603.1	602.6	603.1	603.4	603.5	603.5
24.5°	598.2	597.7	598.2	598.5	598.6	598.7
25°	593.3	592.7	593.3	593.6	593.7	593.7
25.5°	588.3	587.8	588.3	588.7	588.8	588.8
26°	583.5	582.9	583.5	583.8	583.9	583.9
26.5°	578.3	577.9	578.3	578.8	578.9	578.9
27°	573.4	572.9	573.4	573.9	574.0	573.9
27.5°	568.5	568.0	568.5	568.9	569.0	569.0
28°	563.6	563.2	563.6	564.0	564.1	563.9
28.5°	558.8	558.4	558.8	559.2	559.3	559.1
29°	554.2	553.6	554.2	554.4	554.5	554.3
29.5°	549.4	548.9	549.4	549.7	549.7	549.6
30°	544.6	544.1	544.6	545.0	545.0	545.0
30.5°	539.9	539.3	539.9	540.2	540.4	540.3
31°	535.0	534.3	535.0	535.5	535.7	535.7
31.5°	529.9	529.0	529.9	530.4	530.8	530.8
32°	523.8	522.6	523.8	524.7	525.5	525.8
32.5°	516.9	515.5	516.9	518.5	519.6	520.4
33°	509.5	508.0	509.5	511.3	513.3	514.2
33.5°	501.6	500.1	501.6	503.5	506.3	507.1
34°	493.2	491.9	493.2	495.3	498.6	499.0
34.5°	484.2	483.1	484.2	486.6	489.6	490.1
35°	474.8	473.7	474.8	477.3	479.9	480.7
35.5°	465.0	463.6	465.0	467.6	469.6	470.8
36°	454.8	453.1	454.8	457.5	458.8	460.3
36.5°	444.2	442.0	444.2	446.7	447.6	449.2
37°	433.1	431.0	433.1	435.4	436.1	437.6
37.5°	421.8	419.7	421.8	423.7	424.4	425.4
38°	410.3	408.5	410.3	411.6	412.2	412.8
38.5°	398.5	396.9	398.5	398.9	400.0	400.0
39°	386.2	385.6	386.2	386.3	387.4	387.2
39.5°	373.6	373.5	373.6	373.3	374.4	374.1
40°	361.1	361.3	361.1	360.5	361.5	360.8
40.5°	348.6	348.8	348.6	347.7	348.4	347.4
41°	335.9	336.6	335.9	335.2	335.4	334.3
41.5°	323.6	324.0	323.6	322.7	322.0	321.3
42°	311.1	311.9	311.1	310.2	308.9	308.3
42.5°	298.9	299.7	298.9	297.9	296.0	295.4
43°	286.7	287.4	286.7	285.7	283.4	282.5
43.5°	274.4	275.1	274.4	273.5	270.6	269.8



TEST NUMBER: P775764

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	239.4	240.1	239.4	237.5	234.3	233.1
45.5°	228.2	228.9	228.2	226.1	222.8	221.2
46°	217.3	218.3	217.3	214.9	211.8	209.9
46.5°	206.7	207.8	206.7	204.1	201.0	199.0
47°	196.4	197.6	196.4	193.5	190.5	188.3
47.5°	186.5	187.6	186.5	183.5	180.3	178.2
48°	177.0	178.2	177.0	173.9	170.7	168.6
48.5°	167.8	169.1	167.8	164.6	161.5	159.6
49°	159.2	160.4	159.2	155.8	152.7	151.0
49.5°	150.8	152.2	150.8	147.6	144.4	142.9
50°	143.0	144.3	143.0	139.8	136.5	135.4
50.5°	135.6	136.8	135.6	132.6	129.3	128.5
51°	128.4	129.9	128.4	125.8	122.8	122.1
51.5°	121.9	123.3	121.9	119.5	116.7	116.2
52°	115.8	117.0	115.8	113.8	111.3	110.7
52.5°	110.1	111.2	110.1	108.4	106.1	105.7
53°	104.9	105.7	104.9	103.5	101.9	101.1
53.5°	100.2	100.8	100.2	99.0	97.9	97.5
54°	95.8	96.3	95.8	95.0	94.2	94.1
54.5°	92.0	92.6	92.0	91.3	91.0	91.0
55°	88.9	89.3	88.9	88.5	88.0	87.9
55.5°	86.2	87.0	86.2	85.9	85.5	85.0
56°	83.8	84.6	83.8	83.5	83.2	83.0
56.5°	81.5	82.3	81.5	81.3	81.3	81.3
57°	79.4	79.9	79.4	79.5	79.7	79.7
57.5°	77.7	77.6	77.7	77.9	78.1	78.2
58°	76.1	75.9	76.1	76.3	76.5	76.6
58.5°	74.4	74.3	74.4	74.6	74.8	74.9
59°	72.8	72.6	72.8	73.0	73.1	73.2
59.5°	71.1	71.0	71.1	71.2	71.4	71.4
60°	69.4	69.3	69.4	69.5	69.6	69.6
60.5°	67.6	67.5	67.6	67.7	67.8	67.8
61°	65.9	65.8	65.9	66.0	66.1	66.1
61.5°	64.2	64.0	64.2	64.3	64.4	64.4
62°	62.4	62.3	62.4	62.6	62.7	62.7
62.5°	60.7	60.6	60.7	60.9	61.0	61.0
63°	59.0	59.0	59.0	59.3	59.3	59.4
63.5°	57.4	57.4	57.4	57.5	57.7	57.7
64°	55.8	55.7	55.8	55.9	56.1	56.1
64.5°	54.2	54.2	54.2	54.3	54.5	54.5
65°	52.8	52.6	52.8	52.9	53.0	52.9
65.5°	51.3	51.2	51.3	51.4	51.4	51.3
66°	49.7	49.7	49.7	49.8	49.9	49.8



TEST NUMBER: P775764

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	45.3	45.3	45.3	45.4	45.4	45.2
68°	43.9	43.9	43.9	44.0	43.9	43.7
68.5°	42.5	42.5	42.5	42.6	42.5	42.3
69°	41.2	41.1	41.2	41.2	41.1	40.8
69.5°	39.9	39.9	39.9	40.0	39.7	39.3
70°	38.6	38.5	38.6	38.6	38.3	37.9
70.5°	37.2	37.2	37.2	37.3	37.0	36.6
71°	36.0	35.9	36.0	36.0	35.7	35.3
71.5°	34.7	34.6	34.7	34.7	34.3	33.9
72°	33.5	33.4	33.5	33.5	33.0	32.6
72.5°	32.2	32.2	32.2	32.3	31.8	31.3
73°	31.0	30.9	31.0	31.0	30.5	29.9
73.5°	29.8	29.7	29.8	29.8	29.2	28.7
74°	28.7	28.6	28.7	28.6	27.9	27.5
74.5°	27.5	27.4	27.5	27.4	26.7	26.2
75°	26.3	26.3	26.3	26.2	25.5	25.0
75.5°	25.2	25.2	25.2	25.2	24.3	23.9
76°	24.1	24.1	24.1	24.0	23.1	22.7
76.5°	23.0	22.9	23.0	22.8	22.0	21.5
77°	22.0	21.8	22.0	21.7	20.9	20.4
77.5°	20.9	20.8	20.9	20.7	19.7	19.2
78°	19.8	19.7	19.8	19.5	18.6	18.1
78.5°	18.8	18.8	18.8	18.4	17.5	17.1
79°	17.7	17.7	17.7	17.4	16.4	16.0
79.5°	16.7	16.7	16.7	16.4	15.3	14.9
80°	15.7	15.7	15.7	15.3	14.3	13.9
80.5°	14.7	14.7	14.7	14.4	13.3	12.9
81°	13.7	13.7	13.7	13.3	12.3	11.8
81.5°	12.8	12.8	12.8	12.4	11.2	10.9
82°	11.8	11.8	11.8	11.4	10.2	9.9
82.5°	11.0	11.0	11.0	10.4	9.3	8.8
83°	10.0	10.0	10.0	9.5	8.3	7.9
83.5°	9.2	9.1	9.2	8.6	7.4	6.9
84°	8.2	8.2	8.2	7.8	6.4	6.1
84.5°	7.4	7.4	7.4	6.9	5.4	5.1
85°	6.5	6.5	6.5	6.1	4.6	4.3
85.5°	5.6	5.6	5.6	5.2	3.8	3.4
86°	4.8	4.8	4.8	4.5	3.1	2.8
86.5°	3.9	4.0	3.9	3.6	2.6	2.2
87°	3.2	3.2	3.2	3.0	2.0	1.7
87.5°	2.5	2.5	2.5	2.2	1.5	1.3
88°	1.7	1.8	1.7	1.6	1.1	0.9
88.5°	1.3	1.4	1.3	1.1	0.6	0.4



TEST NUMBER: P775764
CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.2	0.3	0.2	0.1	0.1	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°

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21.5°	627.2	627.3	627.2	627.2	626.8	627.2	627.2	627.3	627.2	627.3	627.2
22°	622.6	622.6	622.6	622.4	622.0	622.4	622.6	622.6	622.6	622.6	622.6



44°	257.3	258.0	261.2	262.6	263.2	262.6	261.2	258.0	257.3	258.0	261.2
44.5°	244.9	246.1	249.2	250.9	251.5	250.9	249.2	246.1	244.9	246.1	249.2



66.5°	48.2	48.4	48.4	48.3	48.2	48.3	48.4	48.4	48.2	48.4	48.4
67°	46.7	46.9	46.9	46.8	46.7	46.8	46.9	46.9	46.7	46.9	46.9



89°	0.2	0.3	0.6	0.9	1.0	0.9	0.6	0.3	0.2	0.3	0.6
89.5°	0.1	0.1	0.3	0.5	0.6	0.5	0.3	0.1	0.1	0.1	0.3

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21.5°	627.2	626.8	627.2	627.2	627.3	627.2
22°	622.4	622.0	622.4	622.6	622.6	622.6



44°	262.6	263.2	262.6	261.2	258.0	257.3
44.5°	250.9	251.5	250.9	249.2	246.1	244.9



66.5°	48.3	48.2	48.3	48.4	48.4	48.2
67°	46.8	46.7	46.8	46.9	46.9	46.7

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89°	0.9	1.0	0.9	0.6	0.3	0.2
89.5°	0.5	0.6	0.5	0.3	0.1	0.1

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Scaled Data Report



(END OF REPORT)