

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: P776851

Luminaire Tested: HCDJBL510CSD-HCD42TRMW-750lm-3000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776851  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156A001)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL510CSD-HCD42TRMW-750lm-3000K  
Description: 4 INCH ROUND NARROW MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 757.6 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.97 / 0.95  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

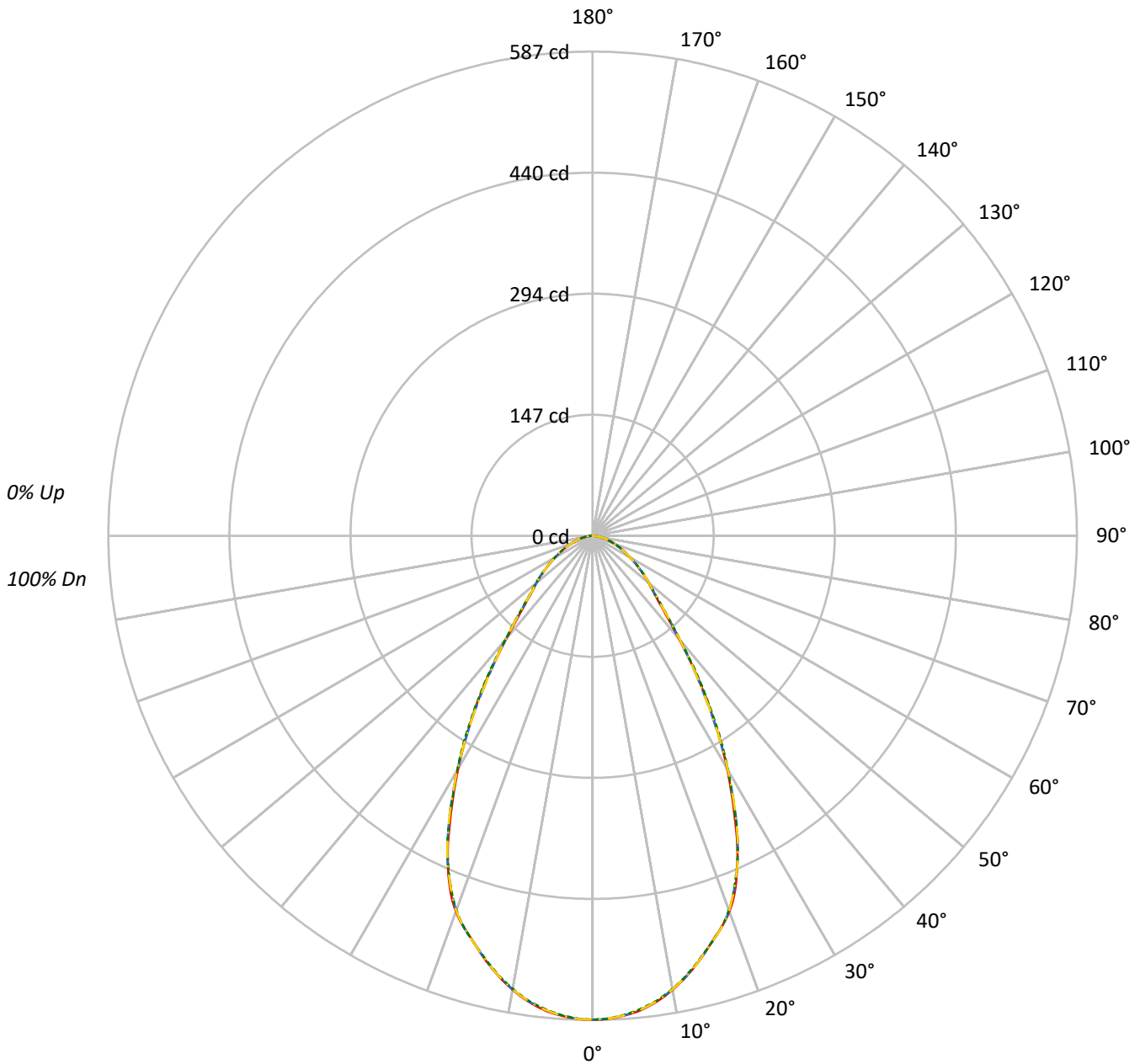
Input Watts (W): 7.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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					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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89								
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80								
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71								
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64								
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58								
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53								
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49								
8	71	60	52	48	70	59	52	47	58	52	47	57	51	47	56	51	47	45								
9	67	56	49	44	66	55	48	44	54	48	44	53	48	44	52	47	43	42								
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	73836	73836	73836	73836
5°	73322	73158	73322	73158
10°	71423	71269	71423	71269
15°	68272	68180	68272	68180
20°	64914	64673	64914	64673
25°	57613	57793	57613	57793
30°	47403	47650	47403	47650
35°	36765	37164	36765	37164
40°	26713	27173	26713	27173
45°	20218	20734	20218	20734
50°	17406	17562	17406	17562
55°	15139	15315	15139	15315
60°	13239	13340	13239	13340
65°	11643	11733	11643	11733
70°	10266	10340	10266	10340
75°	8996	8996	8996	8996
80°	7827	7755	7827	7755
85°	6209	6209	6209	6209

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 20734 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.7	7.2
10°-20°	147.2	19.4
20°-30°	188.5	24.9
30°-40°	149.4	19.7
40°-50°	91.5	12.1
50°-60°	62.5	8.3
60°-70°	39.1	5.2
70°-80°	19.8	2.6
80°-90°	5.0	0.7
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°	390.3	51.5
0°-40°	539.7	71.2
0°-60°	693.7	91.6
0°-90°	757.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	757.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	587	587	587	587	587	
5°	580	579	580	579	580	55
15°	524	523	524	523	524	147
25°	415	416	415	416	415	188
35°	239	242	239	242	239	149
45°	114	116	114	116	114	90
55°	69	70	69	70	69	62
65°	39	39	39	39	39	39
75°	18	18	18	18	18	20
85°	4	4	4	4	4	5
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°	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7
0.5°	586.8	586.7	586.6	586.5	586.3	586.5	586.6	586.7	586.8	586.7	586.6
1°	586.6	586.5	586.4	586.3	586.0	586.3	586.4	586.5	586.6	586.5	586.4
1.5°	586.3	586.1	586.1	586.0	585.7	586.0	586.1	586.1	586.3	586.1	586.1
2°	585.8	585.7	585.6	585.5	585.2	585.5	585.6	585.7	585.8	585.7	585.6
2.5°	585.2	585.1	584.9	584.9	584.5	584.9	584.9	585.1	585.2	585.1	584.9
3°	584.5	584.3	584.1	584.0	583.6	584.0	584.1	584.3	584.5	584.3	584.1
3.5°	583.6	583.4	583.2	583.0	582.8	583.0	583.2	583.4	583.6	583.4	583.2
4°	582.6	582.5	582.2	582.0	581.6	582.0	582.2	582.5	582.6	582.5	582.2
4.5°	581.5	581.3	581.0	580.8	580.4	580.8	581.0	581.3	581.5	581.3	581.0
5°	580.4	580.1	579.8	579.7	579.1	579.7	579.8	580.1	580.4	580.1	579.8
5.5°	579.2	578.6	578.3	578.1	577.6	578.1	578.3	578.6	579.2	578.6	578.3
6°	577.4	577.1	576.7	576.4	575.8	576.4	576.7	577.1	577.4	577.1	576.7
6.5°	575.6	575.3	574.9	574.6	574.0	574.6	574.9	575.3	575.6	575.3	574.9
7°	573.7	573.4	573.1	572.7	572.2	572.7	573.1	573.4	573.7	573.4	573.1
7.5°	571.6	571.3	570.9	570.8	570.2	570.8	570.9	571.3	571.6	571.3	570.9
8°	569.3	569.1	568.7	568.5	568.2	568.5	568.7	569.1	569.3	569.1	568.7
8.5°	566.9	566.6	566.3	566.1	565.8	566.1	566.3	566.6	566.9	566.6	566.3
9°	564.4	564.2	563.8	563.6	563.2	563.6	563.8	564.2	564.4	564.2	563.8
9.5°	561.7	561.5	561.1	560.9	560.6	560.9	561.1	561.5	561.7	561.5	561.1
10°	558.9	558.7	558.4	558.1	557.7	558.1	558.4	558.7	558.9	558.7	558.4
10.5°	555.9	555.7	555.3	555.1	554.8	555.1	555.3	555.7	555.9	555.7	555.3
11°	552.8	552.6	552.3	552.0	551.6	552.0	552.3	552.6	552.8	552.6	552.3
11.5°	549.6	549.4	549.1	548.8	548.5	548.8	549.1	549.4	549.6	549.4	549.1
12°	546.3	546.1	545.9	545.5	545.2	545.5	545.9	546.1	546.3	546.1	545.9
12.5°	542.8	542.7	542.4	542.0	541.6	542.0	542.4	542.7	542.8	542.7	542.4
13°	539.3	539.1	538.9	538.6	538.2	538.6	538.9	539.1	539.3	539.1	538.9
13.5°	535.6	535.4	535.3	535.0	534.6	535.0	535.3	535.4	535.6	535.4	535.3
14°	531.8	531.7	531.6	531.3	530.9	531.3	531.6	531.7	531.8	531.7	531.6
14.5°	527.9	527.8	527.7	527.4	527.1	527.4	527.7	527.8	527.9	527.8	527.7
15°	524.0	524.0	523.8	523.6	523.3	523.6	523.8	524.0	524.0	524.0	523.8
15.5°	519.9	519.9	520.0	519.9	519.7	519.9	520.0	519.9	519.9	519.9	520.0
16°	515.9	516.0	516.3	516.2	516.0	516.2	516.3	516.0	515.9	516.0	516.3
16.5°	512.0	512.2	512.5	512.5	512.4	512.5	512.5	512.2	512.0	512.2	512.5
17°	508.3	508.5	508.8	508.7	508.8	508.7	508.8	508.5	508.3	508.5	508.8
17.5°	504.7	504.9	505.1	505.0	504.9	505.0	505.1	504.9	504.7	504.9	505.1
18°	501.2	501.2	501.4	501.2	501.1	501.2	501.4	501.2	501.2	501.2	501.4
18.5°	497.4	497.4	497.4	497.2	497.0	497.2	497.4	497.4	497.4	497.4	497.4
19°	493.5	493.3	493.2	492.9	492.7	492.9	493.2	493.3	493.5	493.3	493.2
19.5°	489.3	489.0	488.5	488.4	488.1	488.4	488.5	489.0	489.3	489.0	488.5
20°	484.7	484.3	483.4	483.5	482.9	483.5	483.4	484.3	484.7	484.3	483.4
20.5°	479.6	478.9	477.9	478.2	477.6	478.2	477.9	478.9	479.6	478.9	477.9
21°	474.2	473.3	472.1	472.5	471.7	472.5	472.1	473.3	474.2	473.3	472.1



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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°	454.6	453.7	452.9	452.8	452.4	452.8	452.9	453.7	454.6	453.7	452.9
23°	447.2	446.4	446.2	445.7	445.5	445.7	446.2	446.4	447.2	446.4	446.2
23.5°	439.6	438.9	439.2	438.3	438.7	438.3	439.2	438.9	439.6	438.9	439.2
24°	431.6	431.1	432.0	430.8	431.5	430.8	432.0	431.1	431.6	431.1	432.0
24.5°	423.5	423.2	424.4	423.1	424.1	423.1	424.4	423.2	423.5	423.2	424.4
25°	414.9	415.0	416.5	415.5	416.2	415.5	416.5	415.0	414.9	415.0	416.5
25.5°	406.0	407.0	408.3	407.9	408.1	407.9	408.3	407.0	406.0	407.0	408.3
26°	396.9	398.7	399.9	400.0	399.3	400.0	399.9	398.7	396.9	398.7	399.9
26.5°	387.5	390.2	391.2	391.7	390.3	391.7	391.2	390.2	387.5	390.2	391.2
27°	378.4	381.4	382.4	383.2	381.1	383.2	382.4	381.4	378.4	381.4	382.4
27.5°	369.5	372.3	373.4	374.5	371.7	374.5	373.4	372.3	369.5	372.3	373.4
28°	360.5	363.2	364.3	365.4	362.4	365.4	364.3	363.2	360.5	363.2	364.3
28.5°	351.8	353.9	355.2	356.1	353.4	356.1	355.2	353.9	351.8	353.9	355.2
29°	343.1	344.6	346.1	346.7	344.8	346.7	346.1	344.6	343.1	344.6	346.1
29.5°	334.7	335.4	337.0	337.3	336.4	337.3	337.0	335.4	334.7	335.4	337.0
30°	326.2	325.9	327.7	327.8	327.9	327.8	327.7	325.9	326.2	325.9	327.7
30.5°	317.4	316.8	318.6	318.7	319.9	318.7	318.6	316.8	317.4	316.8	318.6
31°	308.7	307.5	309.3	309.6	311.4	309.6	309.3	307.5	308.7	307.5	309.3
31.5°	299.7	298.5	300.0	300.6	302.8	300.6	300.0	298.5	299.7	298.5	300.0
32°	290.6	289.5	290.8	291.7	294.0	291.7	290.8	289.5	290.6	289.5	290.8
32.5°	281.8	280.8	281.8	282.9	285.2	282.9	281.8	280.8	281.8	280.8	281.8
33°	272.9	272.2	272.5	274.1	276.3	274.1	272.5	272.2	272.9	272.2	272.5
33.5°	265.0	263.5	263.3	265.3	267.2	265.3	263.3	263.5	265.0	263.5	263.3
34°	256.4	254.9	254.2	256.6	258.7	256.6	254.2	254.9	256.4	254.9	254.2
34.5°	247.9	246.3	245.3	247.9	250.2	247.9	245.3	246.3	247.9	246.3	245.3
35°	239.3	238.0	236.9	239.5	241.9	239.5	236.9	238.0	239.3	238.0	236.9
35.5°	231.0	229.8	228.6	231.2	233.8	231.2	228.6	229.8	231.0	229.8	228.6
36°	222.8	221.5	220.5	223.2	225.9	223.2	220.5	221.5	222.8	221.5	220.5
36.5°	214.8	213.6	212.6	215.2	217.8	215.2	212.6	213.6	214.8	213.6	212.6
37°	206.6	205.7	204.9	207.5	209.8	207.5	204.9	205.7	206.6	205.7	204.9
37.5°	198.6	198.1	197.5	200.1	201.8	200.1	197.5	198.1	198.6	198.1	197.5
38°	190.8	190.7	190.5	192.9	193.9	192.9	190.5	190.7	190.8	190.7	190.5
38.5°	183.4	183.6	183.7	185.8	186.2	185.8	183.7	183.6	183.4	183.6	183.7
39°	176.2	176.6	177.0	179.0	178.9	179.0	177.0	176.6	176.2	176.6	177.0
39.5°	169.3	170.0	170.5	172.2	172.0	172.2	170.5	170.0	169.3	170.0	170.5
40°	162.6	163.4	164.3	165.7	165.4	165.7	164.3	163.4	162.6	163.4	164.3
40.5°	156.3	157.1	158.3	159.4	159.3	159.4	158.3	157.1	156.3	157.1	158.3
41°	150.2	151.0	152.7	153.4	153.6	153.4	152.7	151.0	150.2	151.0	152.7
41.5°	144.5	145.4	147.3	147.6	148.4	147.6	147.3	145.4	144.5	145.4	147.3
42°	139.2	140.0	142.1	142.3	143.2	142.3	142.1	140.0	139.2	140.0	142.1
42.5°	134.1	135.0	137.2	137.3	138.3	137.3	137.2	135.0	134.1	135.0	137.2
43°	129.3	130.3	132.4	132.6	133.5	132.6	132.4	130.3	129.3	130.3	132.4
43.5°	124.9	125.9	127.9	128.0	128.9	128.0	127.9	125.9	124.9	125.9	127.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	113.6	114.4	115.7	116.1	116.5	116.1	115.7	114.4	113.6	114.4	115.7
45.5°	110.3	111.0	112.1	112.5	112.8	112.5	112.1	111.0	110.3	111.0	112.1
46°	107.2	107.7	108.8	109.3	109.5	109.3	108.8	107.7	107.2	107.7	108.8
46.5°	104.3	104.7	105.5	106.2	106.3	106.2	105.5	104.7	104.3	104.7	105.5
47°	101.5	101.8	102.6	103.3	103.5	103.3	102.6	101.8	101.5	101.8	102.6
47.5°	98.9	99.2	99.9	100.6	100.9	100.6	99.9	99.2	98.9	99.2	99.9
48°	96.5	96.8	97.5	98.1	98.5	98.1	97.5	96.8	96.5	96.8	97.5
48.5°	94.5	94.7	95.2	95.9	96.1	95.9	95.2	94.7	94.5	94.7	95.2
49°	92.6	92.7	93.2	93.7	93.9	93.7	93.2	92.7	92.6	92.7	93.2
49.5°	90.8	90.9	91.2	91.6	91.7	91.6	91.2	90.9	90.8	90.9	91.2
50°	88.9	89.0	89.3	89.6	89.7	89.6	89.3	89.0	88.9	89.0	89.3
50.5°	87.1	87.1	87.3	87.6	87.6	87.6	87.3	87.1	87.1	87.1	87.3
51°	84.9	85.1	85.3	85.6	85.6	85.6	85.3	85.1	84.9	85.1	85.3
51.5°	82.9	83.0	83.3	83.7	83.8	83.7	83.3	83.0	82.9	83.0	83.3
52°	80.8	80.9	81.2	81.6	81.7	81.6	81.2	80.9	80.8	80.9	81.2
52.5°	78.7	78.8	79.2	79.5	79.7	79.5	79.2	78.8	78.7	78.8	79.2
53°	76.7	76.8	77.2	77.5	77.6	77.5	77.2	76.8	76.7	76.8	77.2
53.5°	74.6	74.8	75.1	75.5	75.7	75.5	75.1	74.8	74.6	74.8	75.1
54°	72.8	72.8	73.2	73.5	73.6	73.5	73.2	72.8	72.8	72.8	73.2
54.5°	70.9	71.0	71.3	71.6	71.7	71.6	71.3	71.0	70.9	71.0	71.3
55°	69.0	69.1	69.5	69.7	69.8	69.7	69.5	69.1	69.0	69.1	69.5
55.5°	67.2	67.3	67.7	67.9	68.0	67.9	67.7	67.3	67.2	67.3	67.7
56°	65.5	65.6	65.8	66.1	66.2	66.1	65.8	65.6	65.5	65.6	65.8
56.5°	63.7	63.9	64.1	64.4	64.4	64.4	64.1	63.9	63.7	63.9	64.1
57°	62.0	62.2	62.4	62.6	62.7	62.6	62.4	62.2	62.0	62.2	62.4
57.5°	60.3	60.5	60.7	60.9	61.1	60.9	60.7	60.5	60.3	60.5	60.7
58°	58.8	58.9	59.1	59.3	59.4	59.3	59.1	58.9	58.8	58.9	59.1
58.5°	57.2	57.3	57.5	57.7	57.8	57.7	57.5	57.3	57.2	57.3	57.5
59°	55.6	55.7	55.9	56.0	56.2	56.0	55.9	55.7	55.6	55.7	55.9
59.5°	54.1	54.1	54.3	54.5	54.6	54.5	54.3	54.1	54.1	54.1	54.3
60°	52.6	52.6	52.8	53.0	53.0	53.0	52.8	52.6	52.6	52.6	52.8
60.5°	51.1	51.2	51.3	51.5	51.5	51.5	51.3	51.2	51.1	51.2	51.3
61°	49.7	49.7	49.9	50.1	50.1	50.1	49.9	49.7	49.7	49.7	49.9
61.5°	48.2	48.3	48.5	48.6	48.7	48.6	48.5	48.3	48.2	48.3	48.5
62°	46.9	46.9	47.1	47.2	47.2	47.2	47.1	46.9	46.9	46.9	47.1
62.5°	45.5	45.6	45.7	45.8	45.9	45.8	45.7	45.6	45.5	45.6	45.7
63°	44.2	44.2	44.3	44.5	44.5	44.5	44.3	44.2	44.2	44.2	44.3
63.5°	42.8	42.9	43.0	43.1	43.2	43.1	43.0	42.9	42.8	42.9	43.0
64°	41.6	41.6	41.7	41.8	41.9	41.8	41.7	41.6	41.6	41.6	41.7
64.5°	40.3	40.4	40.5	40.5	40.6	40.5	40.5	40.4	40.3	40.4	40.5
65°	39.1	39.1	39.2	39.3	39.4	39.3	39.2	39.1	39.1	39.1	39.2
65.5°	37.9	37.9	38.0	38.1	38.1	38.1	38.0	37.9	37.9	37.9	38.0
66°	36.6	36.7	36.8	36.9	36.9	36.9	36.8	36.7	36.6	36.7	36.8





TEST NUMBER: P776851

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	33.2	33.2	33.3	33.4	33.4	33.4	33.3	33.2	33.2	33.2	33.3
68°	32.1	32.1	32.2	32.3	32.3	32.3	32.2	32.1	32.1	32.1	32.2
68.5°	31.0	31.0	31.1	31.1	31.2	31.1	31.1	31.0	31.0	31.0	31.1
69°	29.9	29.9	29.9	30.1	30.1	30.1	29.9	29.9	29.9	29.9	29.9
69.5°	28.8	28.9	28.9	29.0	29.1	29.0	28.9	28.9	28.8	28.9	28.9
70°	27.9	28.0	27.9	28.0	28.1	28.0	27.9	28.0	27.9	28.0	27.9
70.5°	26.9	27.0	27.0	27.0	27.0	27.0	27.0	27.0	26.9	27.0	27.0
71°	25.9	25.9	25.9	25.9	26.0	25.9	25.9	25.9	25.9	25.9	25.9
71.5°	24.9	24.9	25.0	25.0	25.0	25.0	25.0	24.9	24.9	24.9	25.0
72°	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
72.5°	23.0	23.0	23.0	23.1	23.1	23.1	23.0	23.0	23.0	23.0	23.0
73°	22.1	22.1	22.1	22.2	22.2	22.2	22.1	22.1	22.1	22.1	22.1
73.5°	21.1	21.1	21.2	21.2	21.2	21.2	21.2	21.1	21.1	21.1	21.2
74°	20.3	20.3	20.3	20.4	20.4	20.4	20.3	20.3	20.3	20.3	20.3
74.5°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
75°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
75.5°	17.7	17.7	17.7	17.7	17.8	17.7	17.7	17.7	17.7	17.7	17.7
76°	16.9	16.8	16.8	16.9	16.9	16.9	16.8	16.8	16.9	16.8	16.8
76.5°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
77°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
77.5°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
78°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
78.5°	13.0	13.0	12.9	12.9	13.0	12.9	12.9	13.0	13.0	13.0	12.9
79°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
79.5°	11.5	11.5	11.4	11.5	11.5	11.5	11.4	11.5	11.5	11.5	11.4
80°	10.8	10.8	10.7	10.7	10.7	10.7	10.7	10.8	10.8	10.8	10.7
80.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
81°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
81.5°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
82°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
82.5°	7.4	7.4	7.4	7.4	7.3	7.4	7.4	7.4	7.4	7.4	7.4
83°	6.8	6.8	6.8	6.7	6.7	6.7	6.8	6.8	6.8	6.8	6.8
83.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
84°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
84.5°	5.0	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.0	4.9	4.9
85°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
85.5°	3.8	3.7	3.8	3.7	3.8	3.7	3.8	3.7	3.8	3.7	3.8
86°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
86.5°	2.7	2.6	2.6	2.6	2.7	2.6	2.6	2.6	2.7	2.6	2.6
87°	2.1	2.1	2.1	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1
87.5°	1.6	1.6	1.6	1.6	1.7	1.6	1.6	1.6	1.6	1.6	1.6
88°	1.0	1.1	1.1	1.2	1.2	1.2	1.1	1.1	1.0	1.1	1.1
88.5°	0.6	0.6	0.7	0.8	0.9	0.8	0.7	0.6	0.6	0.6	0.7



TEST NUMBER: P776851

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-3000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P776851

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	586.7	586.7	586.7	586.7	586.7	586.7
0.5°	586.5	586.3	586.5	586.6	586.7	586.8
1°	586.3	586.0	586.3	586.4	586.5	586.6
1.5°	586.0	585.7	586.0	586.1	586.1	586.3
2°	585.5	585.2	585.5	585.6	585.7	585.8
2.5°	584.9	584.5	584.9	584.9	585.1	585.2
3°	584.0	583.6	584.0	584.1	584.3	584.5
3.5°	583.0	582.8	583.0	583.2	583.4	583.6
4°	582.0	581.6	582.0	582.2	582.5	582.6
4.5°	580.8	580.4	580.8	581.0	581.3	581.5
5°	579.7	579.1	579.7	579.8	580.1	580.4
5.5°	578.1	577.6	578.1	578.3	578.6	579.2
6°	576.4	575.8	576.4	576.7	577.1	577.4
6.5°	574.6	574.0	574.6	574.9	575.3	575.6
7°	572.7	572.2	572.7	573.1	573.4	573.7
7.5°	570.8	570.2	570.8	570.9	571.3	571.6
8°	568.5	568.2	568.5	568.7	569.1	569.3
8.5°	566.1	565.8	566.1	566.3	566.6	566.9
9°	563.6	563.2	563.6	563.8	564.2	564.4
9.5°	560.9	560.6	560.9	561.1	561.5	561.7
10°	558.1	557.7	558.1	558.4	558.7	558.9
10.5°	555.1	554.8	555.1	555.3	555.7	555.9
11°	552.0	551.6	552.0	552.3	552.6	552.8
11.5°	548.8	548.5	548.8	549.1	549.4	549.6
12°	545.5	545.2	545.5	545.9	546.1	546.3
12.5°	542.0	541.6	542.0	542.4	542.7	542.8
13°	538.6	538.2	538.6	538.9	539.1	539.3
13.5°	535.0	534.6	535.0	535.3	535.4	535.6
14°	531.3	530.9	531.3	531.6	531.7	531.8
14.5°	527.4	527.1	527.4	527.7	527.8	527.9
15°	523.6	523.3	523.6	523.8	524.0	524.0
15.5°	519.9	519.7	519.9	520.0	519.9	519.9
16°	516.2	516.0	516.2	516.3	516.0	515.9
16.5°	512.5	512.4	512.5	512.5	512.2	512.0
17°	508.7	508.8	508.7	508.8	508.5	508.3
17.5°	505.0	504.9	505.0	505.1	504.9	504.7
18°	501.2	501.1	501.2	501.4	501.2	501.2
18.5°	497.2	497.0	497.2	497.4	497.4	497.4
19°	492.9	492.7	492.9	493.2	493.3	493.5
19.5°	488.4	488.1	488.4	488.5	489.0	489.3
20°	483.5	482.9	483.5	483.4	484.3	484.7
20.5°	478.2	477.6	478.2	477.9	478.9	479.6
21°	472.5	471.7	472.5	472.1	473.3	474.2



TEST NUMBER: P776851

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	452.8	452.4	452.8	452.9	453.7	454.6
23°	445.7	445.5	445.7	446.2	446.4	447.2
23.5°	438.3	438.7	438.3	439.2	438.9	439.6
24°	430.8	431.5	430.8	432.0	431.1	431.6
24.5°	423.1	424.1	423.1	424.4	423.2	423.5
25°	415.5	416.2	415.5	416.5	415.0	414.9
25.5°	407.9	408.1	407.9	408.3	407.0	406.0
26°	400.0	399.3	400.0	399.9	398.7	396.9
26.5°	391.7	390.3	391.7	391.2	390.2	387.5
27°	383.2	381.1	383.2	382.4	381.4	378.4
27.5°	374.5	371.7	374.5	373.4	372.3	369.5
28°	365.4	362.4	365.4	364.3	363.2	360.5
28.5°	356.1	353.4	356.1	355.2	353.9	351.8
29°	346.7	344.8	346.7	346.1	344.6	343.1
29.5°	337.3	336.4	337.3	337.0	335.4	334.7
30°	327.8	327.9	327.8	327.7	325.9	326.2
30.5°	318.7	319.9	318.7	318.6	316.8	317.4
31°	309.6	311.4	309.6	309.3	307.5	308.7
31.5°	300.6	302.8	300.6	300.0	298.5	299.7
32°	291.7	294.0	291.7	290.8	289.5	290.6
32.5°	282.9	285.2	282.9	281.8	280.8	281.8
33°	274.1	276.3	274.1	272.5	272.2	272.9
33.5°	265.3	267.2	265.3	263.3	263.5	265.0
34°	256.6	258.7	256.6	254.2	254.9	256.4
34.5°	247.9	250.2	247.9	245.3	246.3	247.9
35°	239.5	241.9	239.5	236.9	238.0	239.3
35.5°	231.2	233.8	231.2	228.6	229.8	231.0
36°	223.2	225.9	223.2	220.5	221.5	222.8
36.5°	215.2	217.8	215.2	212.6	213.6	214.8
37°	207.5	209.8	207.5	204.9	205.7	206.6
37.5°	200.1	201.8	200.1	197.5	198.1	198.6
38°	192.9	193.9	192.9	190.5	190.7	190.8
38.5°	185.8	186.2	185.8	183.7	183.6	183.4
39°	179.0	178.9	179.0	177.0	176.6	176.2
39.5°	172.2	172.0	172.2	170.5	170.0	169.3
40°	165.7	165.4	165.7	164.3	163.4	162.6
40.5°	159.4	159.3	159.4	158.3	157.1	156.3
41°	153.4	153.6	153.4	152.7	151.0	150.2
41.5°	147.6	148.4	147.6	147.3	145.4	144.5
42°	142.3	143.2	142.3	142.1	140.0	139.2
42.5°	137.3	138.3	137.3	137.2	135.0	134.1
43°	132.6	133.5	132.6	132.4	130.3	129.3
43.5°	128.0	128.9	128.0	127.9	125.9	124.9



TEST NUMBER: P776851

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	116.1	116.5	116.1	115.7	114.4	113.6
45.5°	112.5	112.8	112.5	112.1	111.0	110.3
46°	109.3	109.5	109.3	108.8	107.7	107.2
46.5°	106.2	106.3	106.2	105.5	104.7	104.3
47°	103.3	103.5	103.3	102.6	101.8	101.5
47.5°	100.6	100.9	100.6	99.9	99.2	98.9
48°	98.1	98.5	98.1	97.5	96.8	96.5
48.5°	95.9	96.1	95.9	95.2	94.7	94.5
49°	93.7	93.9	93.7	93.2	92.7	92.6
49.5°	91.6	91.7	91.6	91.2	90.9	90.8
50°	89.6	89.7	89.6	89.3	89.0	88.9
50.5°	87.6	87.6	87.6	87.3	87.1	87.1
51°	85.6	85.6	85.6	85.3	85.1	84.9
51.5°	83.7	83.8	83.7	83.3	83.0	82.9
52°	81.6	81.7	81.6	81.2	80.9	80.8
52.5°	79.5	79.7	79.5	79.2	78.8	78.7
53°	77.5	77.6	77.5	77.2	76.8	76.7
53.5°	75.5	75.7	75.5	75.1	74.8	74.6
54°	73.5	73.6	73.5	73.2	72.8	72.8
54.5°	71.6	71.7	71.6	71.3	71.0	70.9
55°	69.7	69.8	69.7	69.5	69.1	69.0
55.5°	67.9	68.0	67.9	67.7	67.3	67.2
56°	66.1	66.2	66.1	65.8	65.6	65.5
56.5°	64.4	64.4	64.4	64.1	63.9	63.7
57°	62.6	62.7	62.6	62.4	62.2	62.0
57.5°	60.9	61.1	60.9	60.7	60.5	60.3
58°	59.3	59.4	59.3	59.1	58.9	58.8
58.5°	57.7	57.8	57.7	57.5	57.3	57.2
59°	56.0	56.2	56.0	55.9	55.7	55.6
59.5°	54.5	54.6	54.5	54.3	54.1	54.1
60°	53.0	53.0	53.0	52.8	52.6	52.6
60.5°	51.5	51.5	51.5	51.3	51.2	51.1
61°	50.1	50.1	50.1	49.9	49.7	49.7
61.5°	48.6	48.7	48.6	48.5	48.3	48.2
62°	47.2	47.2	47.2	47.1	46.9	46.9
62.5°	45.8	45.9	45.8	45.7	45.6	45.5
63°	44.5	44.5	44.5	44.3	44.2	44.2
63.5°	43.1	43.2	43.1	43.0	42.9	42.8
64°	41.8	41.9	41.8	41.7	41.6	41.6
64.5°	40.5	40.6	40.5	40.5	40.4	40.3
65°	39.3	39.4	39.3	39.2	39.1	39.1
65.5°	38.1	38.1	38.1	38.0	37.9	37.9
66°	36.9	36.9	36.9	36.8	36.7	36.6



TEST NUMBER: P776851

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	33.4	33.4	33.4	33.3	33.2	33.2
68°	32.3	32.3	32.3	32.2	32.1	32.1
68.5°	31.1	31.2	31.1	31.1	31.0	31.0
69°	30.1	30.1	30.1	29.9	29.9	29.9
69.5°	29.0	29.1	29.0	28.9	28.9	28.8
70°	28.0	28.1	28.0	27.9	28.0	27.9
70.5°	27.0	27.0	27.0	27.0	27.0	26.9
71°	25.9	26.0	25.9	25.9	25.9	25.9
71.5°	25.0	25.0	25.0	25.0	24.9	24.9
72°	24.0	24.0	24.0	24.0	24.0	24.0
72.5°	23.1	23.1	23.1	23.0	23.0	23.0
73°	22.2	22.2	22.2	22.1	22.1	22.1
73.5°	21.2	21.2	21.2	21.2	21.1	21.1
74°	20.4	20.4	20.4	20.3	20.3	20.3
74.5°	19.4	19.4	19.4	19.4	19.4	19.4
75°	18.5	18.5	18.5	18.5	18.5	18.5
75.5°	17.7	17.8	17.7	17.7	17.7	17.7
76°	16.9	16.9	16.9	16.8	16.8	16.9
76.5°	16.0	16.0	16.0	16.0	16.0	16.0
77°	15.2	15.2	15.2	15.2	15.2	15.2
77.5°	14.5	14.5	14.5	14.5	14.5	14.5
78°	13.7	13.7	13.7	13.7	13.7	13.7
78.5°	12.9	13.0	12.9	12.9	13.0	13.0
79°	12.2	12.2	12.2	12.2	12.2	12.2
79.5°	11.5	11.5	11.5	11.4	11.5	11.5
80°	10.7	10.7	10.7	10.7	10.8	10.8
80.5°	10.1	10.1	10.1	10.1	10.1	10.1
81°	9.4	9.4	9.4	9.4	9.4	9.4
81.5°	8.6	8.6	8.6	8.6	8.6	8.6
82°	8.0	8.0	8.0	8.0	8.0	8.0
82.5°	7.4	7.3	7.4	7.4	7.4	7.4
83°	6.7	6.7	6.7	6.8	6.8	6.8
83.5°	6.1	6.1	6.1	6.1	6.1	6.1
84°	5.5	5.5	5.5	5.5	5.5	5.5
84.5°	4.9	4.9	4.9	4.9	4.9	5.0
85°	4.3	4.3	4.3	4.3	4.3	4.3
85.5°	3.7	3.8	3.7	3.8	3.7	3.8
86°	3.1	3.1	3.1	3.1	3.1	3.1
86.5°	2.6	2.7	2.6	2.6	2.6	2.7
87°	2.0	2.1	2.0	2.1	2.1	2.1
87.5°	1.6	1.7	1.6	1.6	1.6	1.6
88°	1.2	1.2	1.2	1.1	1.1	1.0
88.5°	0.8	0.9	0.8	0.7	0.6	0.6



TEST NUMBER: P776851

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.2	0.2	0.2	0.1	0.0	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°	468.0	467.2	465.9	466.3	465.5	466.3	465.9	467.2	468.0	467.2	465.9
22°	461.5	460.7	459.5	459.7	458.9	459.7	459.5	460.7	461.5	460.7	459.5



44°	120.9	121.8	123.6	123.8	124.5	123.8	123.6	121.8	120.9	121.8	123.6
44.5°	117.1	118.0	119.6	119.8	120.4	119.8	119.6	118.0	117.1	118.0	119.6



66.5°	35.4	35.5	35.6	35.7	35.8	35.7	35.6	35.5	35.4	35.5	35.6
67°	34.3	34.3	34.4	34.5	34.6	34.5	34.4	34.3	34.3	34.3	34.4



89°	0.2	0.3	0.5	0.6	0.6	0.6	0.5	0.3	0.2	0.3	0.5
89.5°	0.0	0.1	0.2	0.3	0.4	0.3	0.2	0.1	0.0	0.1	0.2



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21.5°	466.3	465.5	466.3	465.9	467.2	468.0
22°	459.7	458.9	459.7	459.5	460.7	461.5

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44°	123.8	124.5	123.8	123.6	121.8	120.9
44.5°	119.8	120.4	119.8	119.6	118.0	117.1

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66.5°	35.7	35.8	35.7	35.6	35.5	35.4
67°	34.5	34.6	34.5	34.4	34.3	34.3

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89°	0.6	0.6	0.6	0.5	0.3	0.2
89.5°	0.3	0.4	0.3	0.2	0.1	0.0

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Scaled Data Report



(END OF REPORT)