

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: P776850

Luminaire Tested: HCDJBL510CSD-HCD42TRMW-750lm-2700K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776850  
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-2700K  
Description: 4 INCH ROUND NARROW MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 743.0 lumens  
Efficiency: N/A  
Efficacy: 99.1 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

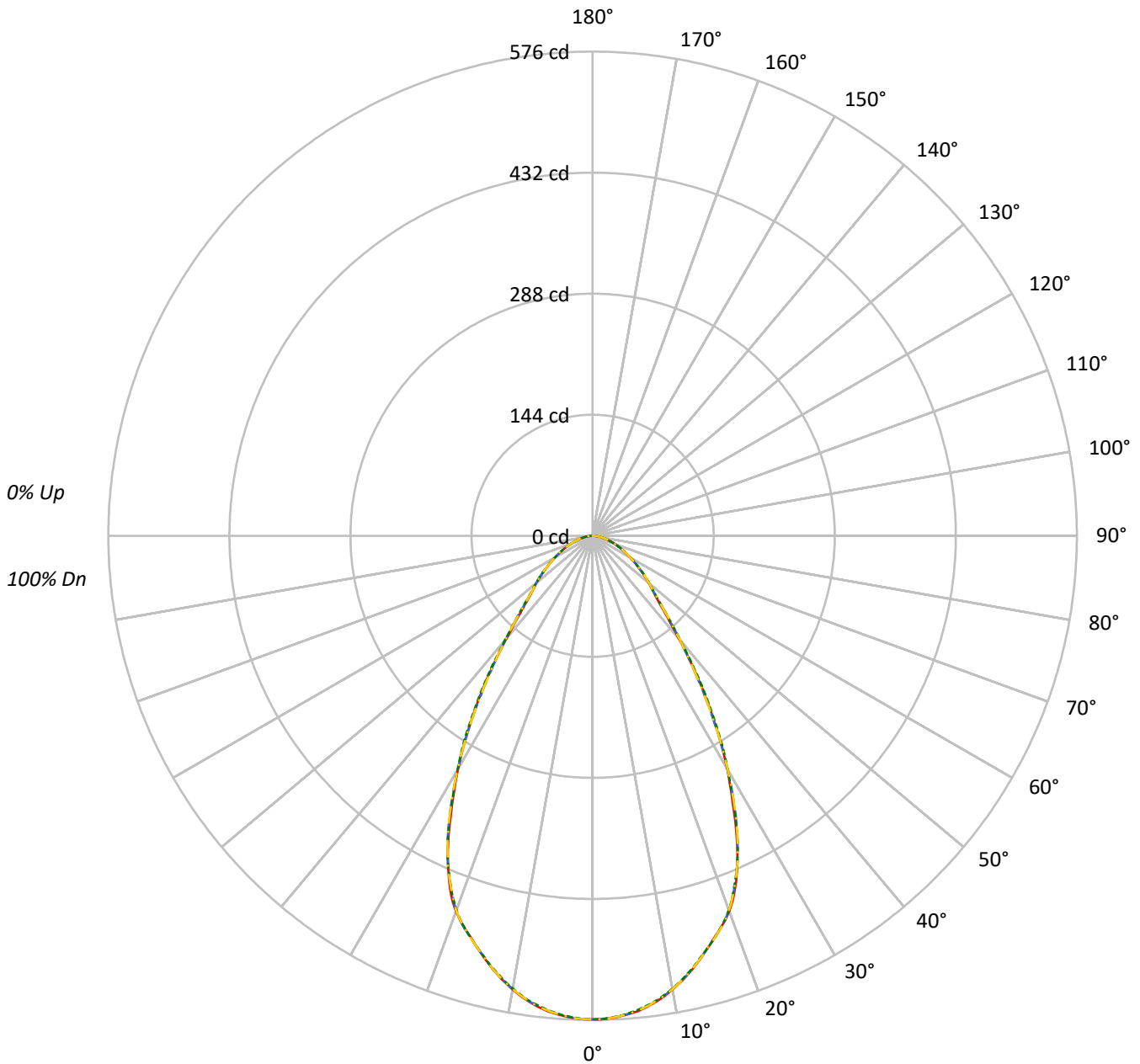
Input Watts (W): 7.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P776850

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-2700K

### 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°	72414	72414	72414	72414
5°	71907	71743	71907	71743
10°	70042	69889	70042	69889
15°	66943	66864	66943	66864
20°	63655	63428	63655	63428
25°	56502	56683	56502	56683
30°	46487	46735	46487	46735
35°	36058	36457	36058	36457
40°	26187	26647	26187	26647
45°	19827	20325	19827	20325
50°	17073	17210	17073	17210
55°	14854	15008	14854	15008
60°	12988	13088	12988	13088
65°	11405	11495	11405	11495
70°	10082	10119	10082	10119
75°	8850	8850	8850	8850
80°	7682	7610	7682	7610
85°	6065	6065	6065	6065

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 20325 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.6	7.2
10°-20°	144.3	19.4
20°-30°	184.8	24.9
30°-40°	146.5	19.7
40°-50°	89.7	12.1
50°-60°	61.3	8.3
60°-70°	38.4	5.2
70°-80°	19.4	2.6
80°-90°	4.9	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°	382.8	51.5
0°-40°	529.3	71.2
0°-60°	680.3	91.6
0°-90°	743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	743.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	575	575	575	575	575	
5°	569	568	569	568	569	54
15°	514	513	514	513	514	144
25°	407	408	407	408	407	184
35°	235	237	235	237	235	146
45°	111	114	111	114	111	89
55°	68	68	68	68	68	61
65°	38	39	38	39	38	38
75°	18	18	18	18	18	19
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°	575.4	575.4	575.4	575.4	575.4	575.4	575.4	575.4	575.4	575.4	575.4
0.5°	575.5	575.4	575.3	575.2	574.9	575.2	575.3	575.4	575.5	575.4	575.3
1°	575.3	575.2	575.1	575.0	574.7	575.0	575.1	575.2	575.3	575.2	575.1
1.5°	574.9	574.8	574.8	574.6	574.4	574.6	574.8	574.8	574.9	574.8	574.8
2°	574.5	574.4	574.3	574.2	573.9	574.2	574.3	574.4	574.5	574.4	574.3
2.5°	573.9	573.8	573.6	573.6	573.2	573.6	573.6	573.8	573.9	573.8	573.6
3°	573.2	573.0	572.9	572.7	572.3	572.7	572.9	573.0	573.2	573.0	572.9
3.5°	572.3	572.2	571.9	571.8	571.6	571.8	571.9	572.2	572.3	572.2	571.9
4°	571.3	571.2	570.9	570.8	570.4	570.8	570.9	571.2	571.3	571.2	570.9
4.5°	570.2	570.1	569.8	569.6	569.2	569.6	569.8	570.1	570.2	570.1	569.8
5°	569.2	568.9	568.6	568.5	567.9	568.5	568.6	568.9	569.2	568.9	568.6
5.5°	568.0	567.5	567.1	566.9	566.5	566.9	567.1	567.5	568.0	567.5	567.1
6°	566.2	565.9	565.5	565.3	564.7	565.3	565.5	565.9	566.2	565.9	565.5
6.5°	564.5	564.2	563.8	563.5	562.9	563.5	563.8	564.2	564.5	564.2	563.8
7°	562.6	562.3	562.1	561.7	561.2	561.7	562.1	562.3	562.6	562.3	562.1
7.5°	560.5	560.2	559.9	559.8	559.2	559.8	559.9	560.2	560.5	560.2	559.9
8°	558.3	558.1	557.8	557.5	557.2	557.5	557.8	558.1	558.3	558.1	557.8
8.5°	556.0	555.7	555.4	555.1	554.8	555.1	555.4	555.7	556.0	555.7	555.4
9°	553.5	553.3	552.9	552.7	552.4	552.7	552.9	553.3	553.5	553.3	552.9
9.5°	550.8	550.7	550.3	550.1	549.7	550.1	550.3	550.7	550.8	550.7	550.3
10°	548.1	547.9	547.6	547.3	546.9	547.3	547.6	547.9	548.1	547.9	547.6
10.5°	545.1	545.0	544.6	544.4	544.0	544.4	544.6	545.0	545.1	545.0	544.6
11°	542.1	542.0	541.7	541.3	541.0	541.3	541.7	542.0	542.1	542.0	541.7
11.5°	539.0	538.8	538.5	538.2	537.9	538.2	538.5	538.8	539.0	538.8	538.5
12°	535.7	535.6	535.3	535.0	534.6	535.0	535.3	535.6	535.7	535.6	535.3
12.5°	532.3	532.2	531.9	531.6	531.2	531.6	531.9	532.2	532.3	532.2	531.9
13°	528.9	528.7	528.5	528.2	527.8	528.2	528.5	528.7	528.9	528.7	528.5
13.5°	525.2	525.1	524.9	524.6	524.3	524.6	524.9	525.1	525.2	525.1	524.9
14°	521.5	521.5	521.3	521.0	520.7	521.0	521.3	521.5	521.5	521.5	521.3
14.5°	517.7	517.6	517.5	517.2	516.9	517.2	517.5	517.6	517.7	517.6	517.5
15°	513.8	513.8	513.7	513.5	513.2	513.5	513.7	513.8	513.8	513.8	513.7
15.5°	509.8	509.8	510.0	509.8	509.7	509.8	510.0	509.8	509.8	509.8	510.0
16°	506.0	506.1	506.3	506.2	506.1	506.2	506.3	506.1	506.0	506.1	506.3
16.5°	502.1	502.3	502.6	502.6	502.5	502.6	502.6	502.3	502.1	502.3	502.6
17°	498.5	498.7	499.0	498.9	499.0	498.9	499.0	498.7	498.5	498.7	499.0
17.5°	495.0	495.1	495.3	495.3	495.2	495.3	495.3	495.1	495.0	495.1	495.3
18°	491.5	491.6	491.7	491.6	491.4	491.6	491.7	491.6	491.5	491.6	491.7
18.5°	487.8	487.8	487.8	487.6	487.4	487.6	487.8	487.8	487.8	487.8	487.8
19°	484.0	483.8	483.6	483.4	483.2	483.4	483.6	483.8	484.0	483.8	483.6
19.5°	479.9	479.5	479.1	478.9	478.7	478.9	479.1	479.5	479.9	479.5	479.1
20°	475.3	474.9	474.1	474.2	473.6	474.2	474.1	474.9	475.3	474.9	474.1
20.5°	470.3	469.7	468.7	469.0	468.4	469.0	468.7	469.7	470.3	469.7	468.7
21°	465.1	464.1	463.0	463.4	462.6	463.4	463.0	464.1	465.1	464.1	463.0



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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°	445.9	444.9	444.2	444.1	443.7	444.1	444.2	444.9	445.9	444.9	444.2
23°	438.5	437.8	437.6	437.1	436.9	437.1	437.6	437.8	438.5	437.8	437.6
23.5°	431.1	430.4	430.8	429.8	430.2	429.8	430.8	430.4	431.1	430.4	430.8
24°	423.3	422.8	423.7	422.4	423.1	422.4	423.7	422.8	423.3	422.8	423.7
24.5°	415.3	415.0	416.2	415.0	415.9	415.0	416.2	415.0	415.3	415.0	416.2
25°	406.9	407.0	408.4	407.5	408.2	407.5	408.4	407.0	406.9	407.0	408.4
25.5°	398.2	399.2	400.4	400.0	400.2	400.0	400.4	399.2	398.2	399.2	400.4
26°	389.2	391.0	392.2	392.2	391.6	392.2	392.2	391.0	389.2	391.0	392.2
26.5°	380.1	382.7	383.6	384.1	382.8	384.1	383.6	382.7	380.1	382.7	383.6
27°	371.1	374.0	375.0	375.8	373.7	375.8	375.0	374.0	371.1	374.0	375.0
27.5°	362.3	365.1	366.2	367.3	364.6	367.3	366.2	365.1	362.3	365.1	366.2
28°	353.6	356.2	357.3	358.3	355.4	358.3	357.3	356.2	353.6	356.2	357.3
28.5°	345.0	347.1	348.3	349.2	346.5	349.2	348.3	347.1	345.0	347.1	348.3
29°	336.5	337.9	339.4	340.0	338.1	340.0	339.4	337.9	336.5	337.9	339.4
29.5°	328.2	328.9	330.5	330.7	329.9	330.7	330.5	328.9	328.2	328.9	330.5
30°	319.9	319.6	321.4	321.5	321.6	321.5	321.4	319.6	319.9	319.6	321.4
30.5°	311.2	310.7	312.4	312.6	313.7	312.6	312.4	310.7	311.2	310.7	312.4
31°	302.7	301.5	303.3	303.6	305.4	303.6	303.3	301.5	302.7	301.5	303.3
31.5°	293.9	292.8	294.2	294.8	297.0	294.8	294.2	292.8	293.9	292.8	294.2
32°	285.0	283.9	285.2	286.0	288.4	286.0	285.2	283.9	285.0	283.9	285.2
32.5°	276.3	275.4	276.3	277.4	279.7	277.4	276.3	275.4	276.3	275.4	276.3
33°	267.6	266.9	267.2	268.8	270.9	268.8	267.2	266.9	267.6	266.9	267.2
33.5°	259.8	258.5	258.2	260.2	262.1	260.2	258.2	258.5	259.8	258.5	258.2
34°	251.4	250.0	249.3	251.7	253.7	251.7	249.3	250.0	251.4	250.0	249.3
34.5°	243.1	241.6	240.6	243.1	245.4	243.1	240.6	241.6	243.1	241.6	240.6
35°	234.7	233.4	232.3	234.9	237.3	234.9	232.3	233.4	234.7	233.4	232.3
35.5°	226.6	225.3	224.2	226.7	229.3	226.7	224.2	225.3	226.6	225.3	224.2
36°	218.5	217.2	216.2	218.9	221.5	218.9	216.2	217.2	218.5	217.2	216.2
36.5°	210.6	209.4	208.5	211.1	213.6	211.1	208.5	209.4	210.6	209.4	208.5
37°	202.6	201.7	201.0	203.5	205.8	203.5	201.0	201.7	202.6	201.7	201.0
37.5°	194.8	194.3	193.7	196.3	197.9	196.3	193.7	194.3	194.8	194.3	193.7
38°	187.1	187.0	186.8	189.2	190.1	189.2	186.8	187.0	187.1	187.0	186.8
38.5°	179.9	180.0	180.2	182.2	182.6	182.2	180.2	180.0	179.9	180.0	180.2
39°	172.8	173.2	173.5	175.5	175.5	175.5	173.5	173.2	172.8	173.2	173.5
39.5°	166.0	166.7	167.2	168.9	168.7	168.9	167.2	166.7	166.0	166.7	167.2
40°	159.4	160.2	161.1	162.5	162.2	162.5	161.1	160.2	159.4	160.2	161.1
40.5°	153.3	154.0	155.3	156.3	156.2	156.3	155.3	154.0	153.3	154.0	155.3
41°	147.3	148.1	149.7	150.4	150.7	150.4	149.7	148.1	147.3	148.1	149.7
41.5°	141.7	142.6	144.4	144.8	145.5	144.8	144.4	142.6	141.7	142.6	144.4
42°	136.5	137.3	139.3	139.6	140.5	139.6	139.3	137.3	136.5	137.3	139.3
42.5°	131.5	132.4	134.5	134.6	135.6	134.6	134.5	132.4	131.5	132.4	134.5
43°	126.8	127.8	129.8	130.0	130.9	130.0	129.8	127.8	126.8	127.8	129.8
43.5°	122.5	123.5	125.5	125.5	126.4	125.5	125.5	123.5	122.5	123.5	125.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	111.4	112.2	113.4	113.8	114.2	113.8	113.4	112.2	111.4	112.2	113.4
45.5°	108.2	108.8	110.0	110.3	110.7	110.3	110.0	108.8	108.2	108.8	110.0
46°	105.1	105.6	106.7	107.2	107.3	107.2	106.7	105.6	105.1	105.6	106.7
46.5°	102.3	102.7	103.5	104.1	104.3	104.1	103.5	102.7	102.3	102.7	103.5
47°	99.6	99.9	100.6	101.3	101.5	101.3	100.6	99.9	99.6	99.9	100.6
47.5°	97.0	97.2	97.9	98.6	98.9	98.6	97.9	97.2	97.0	97.2	97.9
48°	94.6	94.9	95.6	96.2	96.6	96.2	95.6	94.9	94.6	94.9	95.6
48.5°	92.7	92.9	93.4	94.0	94.2	94.0	93.4	92.9	92.7	92.9	93.4
49°	90.9	90.9	91.4	91.9	92.1	91.9	91.4	90.9	90.9	90.9	91.4
49.5°	89.1	89.2	89.5	89.9	89.9	89.9	89.5	89.2	89.1	89.2	89.5
50°	87.2	87.3	87.5	87.8	87.9	87.8	87.5	87.3	87.2	87.3	87.5
50.5°	85.4	85.5	85.6	85.9	85.9	85.9	85.6	85.5	85.4	85.5	85.6
51°	83.3	83.5	83.7	84.0	84.0	84.0	83.7	83.5	83.3	83.5	83.7
51.5°	81.3	81.4	81.7	82.1	82.1	82.1	81.7	81.4	81.3	81.4	81.7
52°	79.2	79.4	79.7	80.1	80.1	80.1	79.7	79.4	79.2	79.4	79.7
52.5°	77.1	77.3	77.7	78.0	78.1	78.0	77.7	77.3	77.1	77.3	77.7
53°	75.2	75.4	75.7	76.0	76.1	76.0	75.7	75.4	75.2	75.4	75.7
53.5°	73.2	73.4	73.7	74.1	74.2	74.1	73.7	73.4	73.2	73.4	73.7
54°	71.4	71.4	71.7	72.1	72.2	72.1	71.7	71.4	71.4	71.4	71.7
54.5°	69.5	69.6	69.9	70.2	70.4	70.2	69.9	69.6	69.5	69.6	69.9
55°	67.7	67.8	68.1	68.4	68.4	68.4	68.1	67.8	67.7	67.8	68.1
55.5°	65.9	66.0	66.3	66.6	66.7	66.6	66.3	66.0	65.9	66.0	66.3
56°	64.2	64.3	64.6	64.8	64.9	64.8	64.6	64.3	64.2	64.3	64.6
56.5°	62.5	62.6	62.9	63.1	63.2	63.1	62.9	62.6	62.5	62.6	62.9
57°	60.8	61.0	61.2	61.4	61.5	61.4	61.2	61.0	60.8	61.0	61.2
57.5°	59.1	59.3	59.6	59.7	59.9	59.7	59.6	59.3	59.1	59.3	59.6
58°	57.6	57.7	57.9	58.2	58.3	58.2	57.9	57.7	57.6	57.7	57.9
58.5°	56.1	56.2	56.4	56.6	56.6	56.6	56.4	56.2	56.1	56.2	56.4
59°	54.6	54.6	54.8	54.9	55.1	54.9	54.8	54.6	54.6	54.6	54.8
59.5°	53.0	53.1	53.2	53.5	53.6	53.5	53.2	53.1	53.0	53.1	53.2
60°	51.6	51.6	51.8	51.9	52.0	51.9	51.8	51.6	51.6	51.6	51.8
60.5°	50.1	50.2	50.3	50.5	50.6	50.5	50.3	50.2	50.1	50.2	50.3
61°	48.7	48.8	48.9	49.1	49.2	49.1	48.9	48.8	48.7	48.8	48.9
61.5°	47.3	47.4	47.5	47.7	47.8	47.7	47.5	47.4	47.3	47.4	47.5
62°	46.0	46.0	46.2	46.3	46.3	46.3	46.2	46.0	46.0	46.0	46.2
62.5°	44.6	44.7	44.8	44.9	45.0	44.9	44.8	44.7	44.6	44.7	44.8
63°	43.3	43.4	43.5	43.6	43.6	43.6	43.5	43.4	43.3	43.4	43.5
63.5°	42.0	42.1	42.2	42.3	42.4	42.3	42.2	42.1	42.0	42.1	42.2
64°	40.8	40.8	40.9	41.0	41.1	41.0	40.9	40.8	40.8	40.8	40.9
64.5°	39.5	39.6	39.7	39.8	39.8	39.8	39.7	39.6	39.5	39.6	39.7
65°	38.3	38.4	38.5	38.5	38.6	38.5	38.5	38.4	38.3	38.4	38.5
65.5°	37.1	37.1	37.2	37.4	37.4	37.4	37.2	37.1	37.1	37.1	37.2
66°	35.9	36.0	36.1	36.1	36.2	36.1	36.1	36.0	35.9	36.0	36.1





TEST NUMBER: P776850

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	32.5	32.6	32.7	32.8	32.8	32.8	32.7	32.6	32.5	32.6	32.7
68°	31.4	31.5	31.6	31.7	31.7	31.7	31.6	31.5	31.4	31.5	31.6
68.5°	30.4	30.4	30.5	30.5	30.6	30.5	30.5	30.4	30.4	30.4	30.5
69°	29.4	29.4	29.4	29.5	29.5	29.5	29.4	29.4	29.4	29.4	29.4
69.5°	28.3	28.4	28.4	28.4	28.5	28.4	28.4	28.4	28.3	28.4	28.4
70°	27.4	27.4	27.4	27.4	27.5	27.4	27.4	27.4	27.4	27.4	27.4
70.5°	26.4	26.4	26.4	26.4	26.5	26.4	26.4	26.4	26.4	26.4	26.4
71°	25.4	25.4	25.4	25.4	25.5	25.4	25.4	25.4	25.4	25.4	25.4
71.5°	24.4	24.4	24.5	24.5	24.5	24.5	24.5	24.4	24.4	24.4	24.5
72°	23.5	23.5	23.5	23.6	23.6	23.6	23.5	23.5	23.5	23.5	23.5
72.5°	22.6	22.6	22.6	22.7	22.7	22.7	22.6	22.6	22.6	22.6	22.6
73°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
73.5°	20.7	20.7	20.8	20.8	20.8	20.8	20.8	20.7	20.7	20.7	20.8
74°	19.9	19.9	19.9	20.0	20.0	20.0	19.9	19.9	19.9	19.9	19.9
74.5°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
75°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
75.5°	17.3	17.3	17.3	17.3	17.4	17.3	17.3	17.3	17.3	17.3	17.3
76°	16.6	16.5	16.5	16.6	16.6	16.6	16.5	16.5	16.6	16.5	16.5
76.5°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
77°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
77.5°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
78°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
78.5°	12.7	12.7	12.6	12.6	12.7	12.6	12.6	12.7	12.7	12.7	12.6
79°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
79.5°	11.3	11.3	11.2	11.3	11.3	11.3	11.2	11.3	11.3	11.3	11.2
80°	10.6	10.6	10.5	10.5	10.5	10.5	10.5	10.6	10.6	10.6	10.5
80.5°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
81°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
81.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
82°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
82.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
83°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
83.5°	6.0	6.0	6.0	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0
84°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
84.5°	4.9	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.9	4.8	4.8
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85.5°	3.7	3.6	3.7	3.6	3.7	3.6	3.7	3.6	3.7	3.6	3.7
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°	2.6	2.5	2.5	2.5	2.6	2.5	2.5	2.5	2.6	2.5	2.5
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°	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5
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: P776850

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-2700K

**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: P776850

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	575.4	575.4	575.4	575.4	575.4	575.4
0.5°	575.2	574.9	575.2	575.3	575.4	575.5
1°	575.0	574.7	575.0	575.1	575.2	575.3
1.5°	574.6	574.4	574.6	574.8	574.8	574.9
2°	574.2	573.9	574.2	574.3	574.4	574.5
2.5°	573.6	573.2	573.6	573.6	573.8	573.9
3°	572.7	572.3	572.7	572.9	573.0	573.2
3.5°	571.8	571.6	571.8	571.9	572.2	572.3
4°	570.8	570.4	570.8	570.9	571.2	571.3
4.5°	569.6	569.2	569.6	569.8	570.1	570.2
5°	568.5	567.9	568.5	568.6	568.9	569.2
5.5°	566.9	566.5	566.9	567.1	567.5	568.0
6°	565.3	564.7	565.3	565.5	565.9	566.2
6.5°	563.5	562.9	563.5	563.8	564.2	564.5
7°	561.7	561.2	561.7	562.1	562.3	562.6
7.5°	559.8	559.2	559.8	559.9	560.2	560.5
8°	557.5	557.2	557.5	557.8	558.1	558.3
8.5°	555.1	554.8	555.1	555.4	555.7	556.0
9°	552.7	552.4	552.7	552.9	553.3	553.5
9.5°	550.1	549.7	550.1	550.3	550.7	550.8
10°	547.3	546.9	547.3	547.6	547.9	548.1
10.5°	544.4	544.0	544.4	544.6	545.0	545.1
11°	541.3	541.0	541.3	541.7	542.0	542.1
11.5°	538.2	537.9	538.2	538.5	538.8	539.0
12°	535.0	534.6	535.0	535.3	535.6	535.7
12.5°	531.6	531.2	531.6	531.9	532.2	532.3
13°	528.2	527.8	528.2	528.5	528.7	528.9
13.5°	524.6	524.3	524.6	524.9	525.1	525.2
14°	521.0	520.7	521.0	521.3	521.5	521.5
14.5°	517.2	516.9	517.2	517.5	517.6	517.7
15°	513.5	513.2	513.5	513.7	513.8	513.8
15.5°	509.8	509.7	509.8	510.0	509.8	509.8
16°	506.2	506.1	506.2	506.3	506.1	506.0
16.5°	502.6	502.5	502.6	502.6	502.3	502.1
17°	498.9	499.0	498.9	499.0	498.7	498.5
17.5°	495.3	495.2	495.3	495.3	495.1	495.0
18°	491.6	491.4	491.6	491.7	491.6	491.5
18.5°	487.6	487.4	487.6	487.8	487.8	487.8
19°	483.4	483.2	483.4	483.6	483.8	484.0
19.5°	478.9	478.7	478.9	479.1	479.5	479.9
20°	474.2	473.6	474.2	474.1	474.9	475.3
20.5°	469.0	468.4	469.0	468.7	469.7	470.3
21°	463.4	462.6	463.4	463.0	464.1	465.1



TEST NUMBER: P776850

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	444.1	443.7	444.1	444.2	444.9	445.9
23°	437.1	436.9	437.1	437.6	437.8	438.5
23.5°	429.8	430.2	429.8	430.8	430.4	431.1
24°	422.4	423.1	422.4	423.7	422.8	423.3
24.5°	415.0	415.9	415.0	416.2	415.0	415.3
25°	407.5	408.2	407.5	408.4	407.0	406.9
25.5°	400.0	400.2	400.0	400.4	399.2	398.2
26°	392.2	391.6	392.2	392.2	391.0	389.2
26.5°	384.1	382.8	384.1	383.6	382.7	380.1
27°	375.8	373.7	375.8	375.0	374.0	371.1
27.5°	367.3	364.6	367.3	366.2	365.1	362.3
28°	358.3	355.4	358.3	357.3	356.2	353.6
28.5°	349.2	346.5	349.2	348.3	347.1	345.0
29°	340.0	338.1	340.0	339.4	337.9	336.5
29.5°	330.7	329.9	330.7	330.5	328.9	328.2
30°	321.5	321.6	321.5	321.4	319.6	319.9
30.5°	312.6	313.7	312.6	312.4	310.7	311.2
31°	303.6	305.4	303.6	303.3	301.5	302.7
31.5°	294.8	297.0	294.8	294.2	292.8	293.9
32°	286.0	288.4	286.0	285.2	283.9	285.0
32.5°	277.4	279.7	277.4	276.3	275.4	276.3
33°	268.8	270.9	268.8	267.2	266.9	267.6
33.5°	260.2	262.1	260.2	258.2	258.5	259.8
34°	251.7	253.7	251.7	249.3	250.0	251.4
34.5°	243.1	245.4	243.1	240.6	241.6	243.1
35°	234.9	237.3	234.9	232.3	233.4	234.7
35.5°	226.7	229.3	226.7	224.2	225.3	226.6
36°	218.9	221.5	218.9	216.2	217.2	218.5
36.5°	211.1	213.6	211.1	208.5	209.4	210.6
37°	203.5	205.8	203.5	201.0	201.7	202.6
37.5°	196.3	197.9	196.3	193.7	194.3	194.8
38°	189.2	190.1	189.2	186.8	187.0	187.1
38.5°	182.2	182.6	182.2	180.2	180.0	179.9
39°	175.5	175.5	175.5	173.5	173.2	172.8
39.5°	168.9	168.7	168.9	167.2	166.7	166.0
40°	162.5	162.2	162.5	161.1	160.2	159.4
40.5°	156.3	156.2	156.3	155.3	154.0	153.3
41°	150.4	150.7	150.4	149.7	148.1	147.3
41.5°	144.8	145.5	144.8	144.4	142.6	141.7
42°	139.6	140.5	139.6	139.3	137.3	136.5
42.5°	134.6	135.6	134.6	134.5	132.4	131.5
43°	130.0	130.9	130.0	129.8	127.8	126.8
43.5°	125.5	126.4	125.5	125.5	123.5	122.5



TEST NUMBER: P776850

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	113.8	114.2	113.8	113.4	112.2	111.4
45.5°	110.3	110.7	110.3	110.0	108.8	108.2
46°	107.2	107.3	107.2	106.7	105.6	105.1
46.5°	104.1	104.3	104.1	103.5	102.7	102.3
47°	101.3	101.5	101.3	100.6	99.9	99.6
47.5°	98.6	98.9	98.6	97.9	97.2	97.0
48°	96.2	96.6	96.2	95.6	94.9	94.6
48.5°	94.0	94.2	94.0	93.4	92.9	92.7
49°	91.9	92.1	91.9	91.4	90.9	90.9
49.5°	89.9	89.9	89.9	89.5	89.2	89.1
50°	87.8	87.9	87.8	87.5	87.3	87.2
50.5°	85.9	85.9	85.9	85.6	85.5	85.4
51°	84.0	84.0	84.0	83.7	83.5	83.3
51.5°	82.1	82.1	82.1	81.7	81.4	81.3
52°	80.1	80.1	80.1	79.7	79.4	79.2
52.5°	78.0	78.1	78.0	77.7	77.3	77.1
53°	76.0	76.1	76.0	75.7	75.4	75.2
53.5°	74.1	74.2	74.1	73.7	73.4	73.2
54°	72.1	72.2	72.1	71.7	71.4	71.4
54.5°	70.2	70.4	70.2	69.9	69.6	69.5
55°	68.4	68.4	68.4	68.1	67.8	67.7
55.5°	66.6	66.7	66.6	66.3	66.0	65.9
56°	64.8	64.9	64.8	64.6	64.3	64.2
56.5°	63.1	63.2	63.1	62.9	62.6	62.5
57°	61.4	61.5	61.4	61.2	61.0	60.8
57.5°	59.7	59.9	59.7	59.6	59.3	59.1
58°	58.2	58.3	58.2	57.9	57.7	57.6
58.5°	56.6	56.6	56.6	56.4	56.2	56.1
59°	54.9	55.1	54.9	54.8	54.6	54.6
59.5°	53.5	53.6	53.5	53.2	53.1	53.0
60°	51.9	52.0	51.9	51.8	51.6	51.6
60.5°	50.5	50.6	50.5	50.3	50.2	50.1
61°	49.1	49.2	49.1	48.9	48.8	48.7
61.5°	47.7	47.8	47.7	47.5	47.4	47.3
62°	46.3	46.3	46.3	46.2	46.0	46.0
62.5°	44.9	45.0	44.9	44.8	44.7	44.6
63°	43.6	43.6	43.6	43.5	43.4	43.3
63.5°	42.3	42.4	42.3	42.2	42.1	42.0
64°	41.0	41.1	41.0	40.9	40.8	40.8
64.5°	39.8	39.8	39.8	39.7	39.6	39.5
65°	38.5	38.6	38.5	38.5	38.4	38.3
65.5°	37.4	37.4	37.4	37.2	37.1	37.1
66°	36.1	36.2	36.1	36.1	36.0	35.9



TEST NUMBER: P776850

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	32.8	32.8	32.8	32.7	32.6	32.5
68°	31.7	31.7	31.7	31.6	31.5	31.4
68.5°	30.5	30.6	30.5	30.5	30.4	30.4
69°	29.5	29.5	29.5	29.4	29.4	29.4
69.5°	28.4	28.5	28.4	28.4	28.4	28.3
70°	27.4	27.5	27.4	27.4	27.4	27.4
70.5°	26.4	26.5	26.4	26.4	26.4	26.4
71°	25.4	25.5	25.4	25.4	25.4	25.4
71.5°	24.5	24.5	24.5	24.5	24.4	24.4
72°	23.6	23.6	23.6	23.5	23.5	23.5
72.5°	22.7	22.7	22.7	22.6	22.6	22.6
73°	21.7	21.7	21.7	21.7	21.7	21.7
73.5°	20.8	20.8	20.8	20.8	20.7	20.7
74°	20.0	20.0	20.0	19.9	19.9	19.9
74.5°	19.0	19.0	19.0	19.0	19.0	19.0
75°	18.2	18.2	18.2	18.2	18.2	18.2
75.5°	17.3	17.4	17.3	17.3	17.3	17.3
76°	16.6	16.6	16.6	16.5	16.5	16.6
76.5°	15.7	15.7	15.7	15.7	15.7	15.7
77°	14.9	14.9	14.9	14.9	14.9	14.9
77.5°	14.2	14.2	14.2	14.2	14.2	14.2
78°	13.4	13.4	13.4	13.4	13.4	13.4
78.5°	12.6	12.7	12.6	12.6	12.7	12.7
79°	11.9	11.9	11.9	11.9	11.9	11.9
79.5°	11.3	11.3	11.3	11.2	11.3	11.3
80°	10.5	10.5	10.5	10.5	10.6	10.6
80.5°	9.9	9.9	9.9	9.9	9.9	9.9
81°	9.2	9.2	9.2	9.2	9.2	9.2
81.5°	8.5	8.5	8.5	8.5	8.5	8.5
82°	7.9	7.9	7.9	7.9	7.9	7.9
82.5°	7.2	7.2	7.2	7.2	7.2	7.2
83°	6.6	6.6	6.6	6.6	6.6	6.6
83.5°	5.9	5.9	5.9	6.0	6.0	6.0
84°	5.4	5.4	5.4	5.4	5.4	5.4
84.5°	4.8	4.8	4.8	4.8	4.8	4.9
85°	4.2	4.2	4.2	4.2	4.2	4.2
85.5°	3.6	3.7	3.6	3.7	3.6	3.7
86°	3.1	3.1	3.1	3.1	3.1	3.1
86.5°	2.5	2.6	2.5	2.5	2.5	2.6
87°	2.0	2.1	2.0	2.1	2.1	2.1
87.5°	1.5	1.6	1.5	1.5	1.5	1.5
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: P776850

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-2700K

**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

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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°	459.0	458.2	456.9	457.3	456.5	457.3	456.9	458.2	459.0	458.2	456.9
22°	452.6	451.8	450.6	450.8	450.0	450.8	450.6	451.8	452.6	451.8	450.6



44°	118.5	119.4	121.2	121.4	122.1	121.4	121.2	119.4	118.5	119.4	121.2
44.5°	114.8	115.7	117.3	117.5	118.1	117.5	117.3	115.7	114.8	115.7	117.3



66.5°	34.8	34.8	34.9	35.0	35.1	35.0	34.9	34.8	34.8	34.8	34.9
67°	33.7	33.7	33.8	33.8	33.9	33.8	33.8	33.7	33.7	33.7	33.8



89°	0.2	0.3	0.5	0.5	0.6	0.5	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°	457.3	456.5	457.3	456.9	458.2	459.0
22°	450.8	450.0	450.8	450.6	451.8	452.6



44°	121.4	122.1	121.4	121.2	119.4	118.5
44.5°	117.5	118.1	117.5	117.3	115.7	114.8

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66.5°	35.0	35.1	35.0	34.9	34.8	34.8
67°	33.8	33.9	33.8	33.8	33.7	33.7



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

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(END OF REPORT)