

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: P776854

Luminaire Tested: HCDJBL510CSD-HCD42TRMW-750lm-5000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776854
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-5000K
Description: 4 INCH ROUND NARROW MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

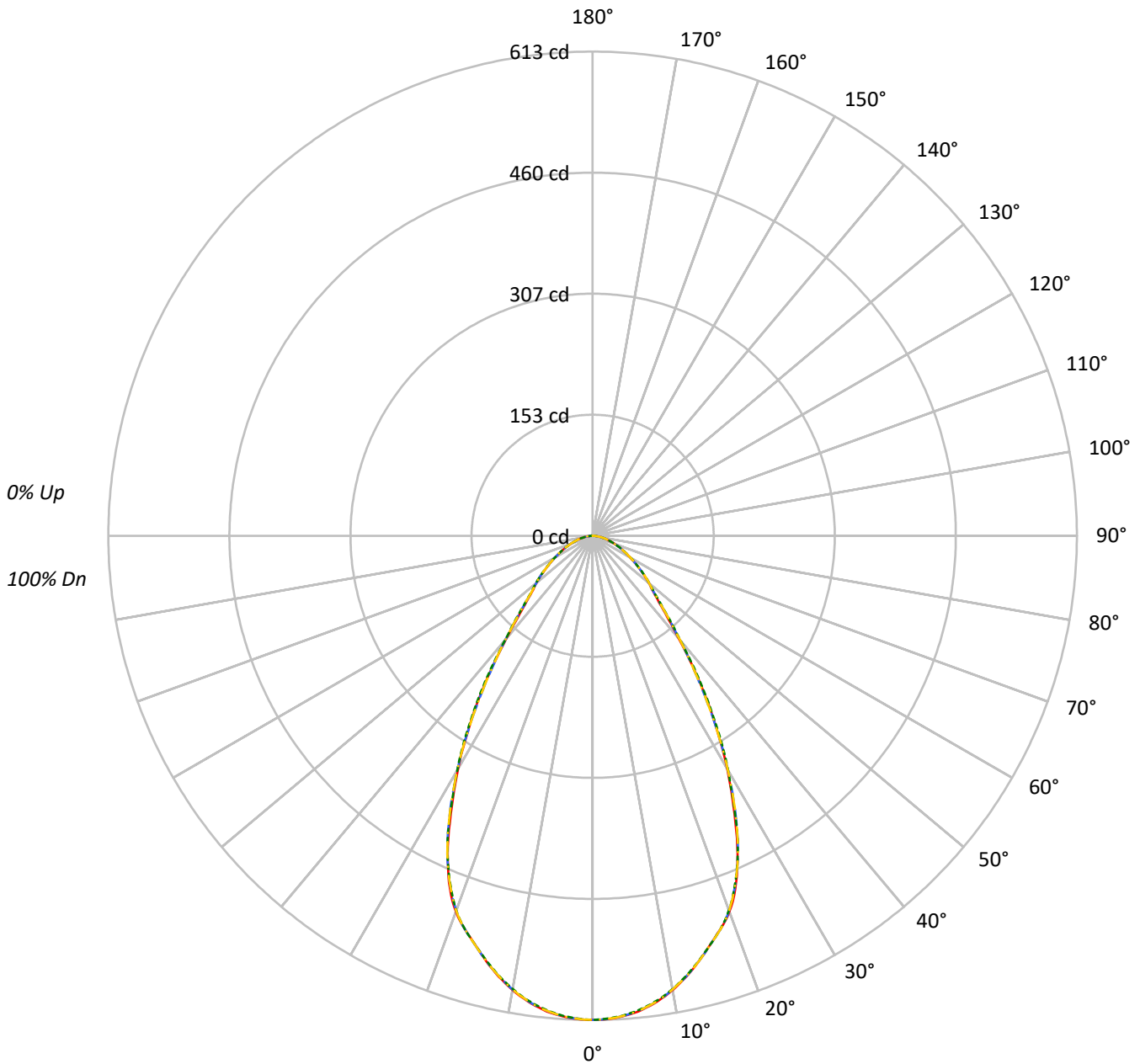
Lumens per Lamp: N/A
Luminaire Lumens: 791.5 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.97 / 0.95
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
Input Voltage (V): NR
Input Current (A_{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					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	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°	77146	77146	77146	77146
5°	76594	76430	76594	76430
10°	74617	74451	74617	74451
15°	71320	71229	71320	71229
20°	67807	67566	67807	67566
25°	60182	60376	60182	60376
30°	49525	49786	49525	49786
35°	38409	38839	38409	38839
40°	27896	28388	27896	28388
45°	21126	21660	21126	21660
50°	18189	18345	18189	18345
55°	15820	15995	15820	15995
60°	13818	13944	13818	13944
65°	12150	12239	12150	12239
70°	10708	10781	10708	10781
75°	9433	9433	9433	9433
80°	8117	8117	8117	8117
85°	6498	6498	6498	6498

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 21660 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	7.2
10°-20°	153.8	19.4
20°-30°	196.9	24.9
30°-40°	156.0	19.7
40°-50°	95.5	12.1
50°-60°	65.3	8.3
60°-70°	40.9	5.2
70°-80°	20.7	2.6
80°-90°	5.2	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°	407.8	51.5
0°-40°	563.8	71.2
0°-60°	724.7	91.6
0°-90°	791.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	791.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	613	613	613	613	613	
5°	606	605	606	605	606	57
15°	547	547	547	547	547	154
25°	433	435	433	435	433	196
35°	250	253	250	253	250	156
45°	119	122	119	122	119	94
55°	72	73	72	73	72	65
65°	41	41	41	41	41	41
75°	19	19	19	19	19	21
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°	613.0	613.0	613.0	613.0	613.0	613.0	613.0	613.0	613.0	613.0	613.0
0.5°	613.1	613.0	612.8	612.7	612.5	612.7	612.8	613.0	613.1	613.0	612.8
1°	612.8	612.7	612.6	612.6	612.2	612.6	612.6	612.7	612.8	612.7	612.6
1.5°	612.5	612.3	612.3	612.2	611.9	612.2	612.3	612.3	612.5	612.3	612.3
2°	612.0	611.9	611.7	611.7	611.3	611.7	611.7	611.9	612.0	611.9	611.7
2.5°	611.4	611.2	611.1	611.0	610.6	611.0	611.1	611.2	611.4	611.2	611.1
3°	610.6	610.4	610.3	610.1	609.7	610.1	610.3	610.4	610.6	610.4	610.3
3.5°	609.7	609.5	609.3	609.1	608.9	609.1	609.3	609.5	609.7	609.5	609.3
4°	608.6	608.5	608.2	608.0	607.6	608.0	608.2	608.5	608.6	608.5	608.2
4.5°	607.5	607.3	607.0	606.8	606.3	606.8	607.0	607.3	607.5	607.3	607.0
5°	606.3	606.1	605.7	605.6	605.0	605.6	605.7	606.1	606.3	606.1	605.7
5.5°	605.1	604.5	604.1	603.9	603.5	603.9	604.1	604.5	605.1	604.5	604.1
6°	603.2	602.9	602.5	602.2	601.6	602.2	602.5	602.9	603.2	602.9	602.5
6.5°	601.3	601.1	600.6	600.3	599.7	600.3	600.6	601.1	601.3	601.1	600.6
7°	599.3	599.0	598.8	598.4	597.8	598.4	598.8	599.0	599.3	599.0	598.8
7.5°	597.1	596.8	596.5	596.3	595.7	596.3	596.5	596.8	597.1	596.8	596.5
8°	594.7	594.5	594.2	593.9	593.6	593.9	594.2	594.5	594.7	594.5	594.2
8.5°	592.3	592.0	591.6	591.4	591.1	591.4	591.6	592.0	592.3	592.0	591.6
9°	589.7	589.4	589.0	588.8	588.4	588.8	589.0	589.4	589.7	589.4	589.0
9.5°	586.8	586.6	586.2	586.0	585.6	586.0	586.2	586.6	586.8	586.6	586.2
10°	583.9	583.7	583.3	583.0	582.6	583.0	583.3	583.7	583.9	583.7	583.3
10.5°	580.7	580.5	580.1	579.9	579.6	579.9	580.1	580.5	580.7	580.5	580.1
11°	577.5	577.3	577.0	576.7	576.3	576.7	577.0	577.3	577.5	577.3	577.0
11.5°	574.1	574.0	573.7	573.3	573.0	573.3	573.7	574.0	574.1	574.0	573.7
12°	570.7	570.5	570.3	569.9	569.5	569.9	570.3	570.5	570.7	570.5	570.3
12.5°	567.1	566.9	566.7	566.3	565.9	566.3	566.7	566.9	567.1	566.9	566.7
13°	563.4	563.2	563.0	562.7	562.2	562.7	563.0	563.2	563.4	563.2	563.0
13.5°	559.5	559.4	559.2	558.9	558.5	558.9	559.2	559.4	559.5	559.4	559.2
14°	555.6	555.5	555.3	555.0	554.7	555.0	555.3	555.5	555.6	555.5	555.3
14.5°	551.5	551.4	551.3	551.0	550.7	551.0	551.3	551.4	551.5	551.4	551.3
15°	547.4	547.4	547.2	547.1	546.7	547.1	547.2	547.4	547.4	547.4	547.2
15.5°	543.1	543.1	543.3	543.1	542.9	543.1	543.3	543.1	543.1	543.1	543.3
16°	539.0	539.1	539.3	539.3	539.1	539.3	539.3	539.1	539.0	539.1	539.3
16.5°	534.9	535.1	535.4	535.4	535.3	535.4	535.4	535.1	534.9	535.1	535.4
17°	531.0	531.2	531.5	531.5	531.5	531.5	531.5	531.2	531.0	531.2	531.5
17.5°	527.3	527.4	527.7	527.6	527.5	527.6	527.7	527.4	527.3	527.4	527.7
18°	523.6	523.7	523.8	523.7	523.5	523.7	523.8	523.7	523.6	523.7	523.8
18.5°	519.6	519.6	519.6	519.5	519.2	519.5	519.6	519.6	519.6	519.6	519.6
19°	515.6	515.4	515.2	515.0	514.7	515.0	515.2	515.4	515.6	515.4	515.2
19.5°	511.2	510.9	510.4	510.2	509.9	510.2	510.4	510.9	511.2	510.9	510.4
20°	506.3	505.9	505.0	505.1	504.5	505.1	505.0	505.9	506.3	505.9	505.0
20.5°	501.0	500.3	499.3	499.6	498.9	499.6	499.3	500.3	501.0	500.3	499.3
21°	495.4	494.4	493.2	493.6	492.8	493.6	493.2	494.4	495.4	494.4	493.2



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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°	475.0	474.0	473.2	473.1	472.7	473.1	473.2	474.0	475.0	474.0	473.2
23°	467.2	466.4	466.2	465.6	465.5	465.6	466.2	466.4	467.2	466.4	466.2
23.5°	459.2	458.5	458.9	457.9	458.3	457.9	458.9	458.5	459.2	458.5	458.9
24°	450.9	450.4	451.3	450.0	450.8	450.0	451.3	450.4	450.9	450.4	451.3
24.5°	442.4	442.1	443.4	442.1	443.0	442.1	443.4	442.1	442.4	442.1	443.4
25°	433.4	433.6	435.1	434.1	434.8	434.1	435.1	433.6	433.4	433.6	435.1
25.5°	424.2	425.2	426.5	426.1	426.3	426.1	426.5	425.2	424.2	425.2	426.5
26°	414.6	416.5	417.8	417.8	417.2	417.8	417.8	416.5	414.6	416.5	417.8
26.5°	404.9	407.7	408.6	409.2	407.7	409.2	408.6	407.7	404.9	407.7	408.6
27°	395.3	398.5	399.5	400.4	398.1	400.4	399.5	398.5	395.3	398.5	399.5
27.5°	386.0	388.9	390.1	391.2	388.4	391.2	390.1	388.9	386.0	388.9	390.1
28°	376.6	379.4	380.6	381.7	378.6	381.7	380.6	379.4	376.6	379.4	380.6
28.5°	367.5	369.7	371.1	372.0	369.2	372.0	371.1	369.7	367.5	369.7	371.1
29°	358.5	360.0	361.5	362.2	360.2	362.2	361.5	360.0	358.5	360.0	361.5
29.5°	349.6	350.4	352.1	352.3	351.4	352.3	352.1	350.4	349.6	350.4	352.1
30°	340.8	340.5	342.4	342.5	342.6	342.5	342.4	340.5	340.8	340.5	342.4
30.5°	331.6	331.0	332.8	333.0	334.2	333.0	332.8	331.0	331.6	331.0	332.8
31°	322.5	321.2	323.1	323.4	325.3	323.4	323.1	321.2	322.5	321.2	323.1
31.5°	313.1	311.9	313.4	314.0	316.4	314.0	313.4	311.9	313.1	311.9	313.4
32°	303.6	302.4	303.8	304.7	307.2	304.7	303.8	302.4	303.6	302.4	303.8
32.5°	294.4	293.4	294.4	295.5	298.0	295.5	294.4	293.4	294.4	293.4	294.4
33°	285.1	284.4	284.7	286.3	288.6	286.3	284.7	284.4	285.1	284.4	284.7
33.5°	276.8	275.3	275.1	277.1	279.2	277.1	275.1	275.3	276.8	275.3	275.1
34°	267.9	266.3	265.6	268.1	270.2	268.1	265.6	266.3	267.9	266.3	265.6
34.5°	259.0	257.4	256.3	259.0	261.4	259.0	256.3	257.4	259.0	257.4	256.3
35°	250.0	248.7	247.5	250.2	252.8	250.2	247.5	248.7	250.0	248.7	247.5
35.5°	241.3	240.0	238.8	241.5	244.3	241.5	238.8	240.0	241.3	240.0	238.8
36°	232.8	231.4	230.3	233.1	236.0	233.1	230.3	231.4	232.8	231.4	230.3
36.5°	224.4	223.1	222.1	224.8	227.6	224.8	222.1	223.1	224.4	223.1	222.1
37°	215.8	214.9	214.1	216.8	219.2	216.8	214.1	214.9	215.8	214.9	214.1
37.5°	207.5	207.0	206.4	209.1	210.8	209.1	206.4	207.0	207.5	207.0	206.4
38°	199.3	199.2	199.0	201.5	202.5	201.5	199.0	199.2	199.3	199.2	199.0
38.5°	191.6	191.8	191.9	194.1	194.6	194.1	191.9	191.8	191.6	191.8	191.9
39°	184.1	184.5	184.9	187.0	186.9	187.0	184.9	184.5	184.1	184.5	184.9
39.5°	176.8	177.6	178.1	179.9	179.7	179.9	178.1	177.6	176.8	177.6	178.1
40°	169.8	170.7	171.7	173.1	172.8	173.1	171.7	170.7	169.8	170.7	171.7
40.5°	163.3	164.1	165.4	166.5	166.4	166.5	165.4	164.1	163.3	164.1	165.4
41°	157.0	157.8	159.5	160.2	160.5	160.2	159.5	157.8	157.0	157.8	159.5
41.5°	151.0	151.9	153.8	154.2	155.0	154.2	153.8	151.9	151.0	151.9	153.8
42°	145.4	146.3	148.4	148.7	149.7	148.7	148.4	146.3	145.4	146.3	148.4
42.5°	140.1	141.0	143.3	143.4	144.5	143.4	143.3	141.0	140.1	141.0	143.3
43°	135.1	136.1	138.3	138.5	139.5	138.5	138.3	136.1	135.1	136.1	138.3
43.5°	130.5	131.5	133.6	133.7	134.6	133.7	133.6	131.5	130.5	131.5	133.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	118.7	119.5	120.8	121.2	121.7	121.2	120.8	119.5	118.7	119.5	120.8
45.5°	115.3	115.9	117.1	117.6	117.9	117.6	117.1	115.9	115.3	115.9	117.1
46°	112.0	112.5	113.6	114.2	114.4	114.2	113.6	112.5	112.0	112.5	113.6
46.5°	108.9	109.4	110.2	110.9	111.1	110.9	110.2	109.4	108.9	109.4	110.2
47°	106.1	106.4	107.2	107.9	108.1	107.9	107.2	106.4	106.1	106.4	107.2
47.5°	103.4	103.6	104.3	105.1	105.4	105.1	104.3	103.6	103.4	103.6	104.3
48°	100.8	101.1	101.9	102.5	102.9	102.5	101.9	101.1	100.8	101.1	101.9
48.5°	98.8	98.9	99.5	100.2	100.4	100.2	99.5	98.9	98.8	98.9	99.5
49°	96.8	96.9	97.4	97.9	98.1	97.9	97.4	96.9	96.8	96.9	97.4
49.5°	94.9	95.0	95.3	95.7	95.8	95.7	95.3	95.0	94.9	95.0	95.3
50°	92.9	93.0	93.3	93.6	93.7	93.6	93.3	93.0	92.9	93.0	93.3
50.5°	91.0	91.0	91.2	91.5	91.5	91.5	91.2	91.0	91.0	91.0	91.2
51°	88.7	88.9	89.2	89.5	89.5	89.5	89.2	88.9	88.7	88.9	89.2
51.5°	86.6	86.7	87.0	87.4	87.5	87.4	87.0	86.7	86.6	86.7	87.0
52°	84.4	84.6	84.9	85.3	85.4	85.3	84.9	84.6	84.4	84.6	84.9
52.5°	82.2	82.3	82.7	83.1	83.2	83.1	82.7	82.3	82.2	82.3	82.7
53°	80.1	80.3	80.6	80.9	81.1	80.9	80.6	80.3	80.1	80.3	80.6
53.5°	78.0	78.2	78.5	78.9	79.1	78.9	78.5	78.2	78.0	78.2	78.5
54°	76.0	76.1	76.4	76.8	76.9	76.8	76.4	76.1	76.0	76.1	76.4
54.5°	74.0	74.1	74.5	74.8	74.9	74.8	74.5	74.1	74.0	74.1	74.5
55°	72.1	72.2	72.6	72.8	72.9	72.8	72.6	72.2	72.1	72.2	72.6
55.5°	70.2	70.4	70.7	70.9	71.0	70.9	70.7	70.4	70.2	70.4	70.7
56°	68.4	68.5	68.8	69.0	69.1	69.0	68.8	68.5	68.4	68.5	68.8
56.5°	66.6	66.7	67.0	67.2	67.3	67.2	67.0	66.7	66.6	66.7	67.0
57°	64.8	64.9	65.2	65.4	65.5	65.4	65.2	64.9	64.8	64.9	65.2
57.5°	63.0	63.2	63.5	63.6	63.8	63.6	63.5	63.2	63.0	63.2	63.5
58°	61.4	61.5	61.7	62.0	62.1	62.0	61.7	61.5	61.4	61.5	61.7
58.5°	59.8	59.8	60.1	60.3	60.3	60.3	60.1	59.8	59.8	59.8	60.1
59°	58.1	58.2	58.4	58.5	58.7	58.5	58.4	58.2	58.1	58.2	58.4
59.5°	56.5	56.6	56.7	57.0	57.1	57.0	56.7	56.6	56.5	56.6	56.7
60°	54.9	55.0	55.2	55.3	55.4	55.3	55.2	55.0	54.9	55.0	55.2
60.5°	53.4	53.4	53.6	53.8	53.9	53.8	53.6	53.4	53.4	53.4	53.6
61°	51.9	52.0	52.1	52.3	52.4	52.3	52.1	52.0	51.9	52.0	52.1
61.5°	50.4	50.5	50.7	50.8	50.9	50.8	50.7	50.5	50.4	50.5	50.7
62°	49.0	49.0	49.2	49.3	49.3	49.3	49.2	49.0	49.0	49.0	49.2
62.5°	47.5	47.6	47.7	47.9	47.9	47.9	47.7	47.6	47.5	47.6	47.7
63°	46.1	46.2	46.3	46.5	46.5	46.5	46.3	46.2	46.1	46.2	46.3
63.5°	44.7	44.8	44.9	45.1	45.1	45.1	44.9	44.8	44.7	44.8	44.9
64°	43.4	43.5	43.6	43.7	43.8	43.7	43.6	43.5	43.4	43.5	43.6
64.5°	42.1	42.2	42.3	42.4	42.4	42.4	42.3	42.2	42.1	42.2	42.3
65°	40.8	40.9	41.0	41.0	41.1	41.0	41.0	40.9	40.8	40.9	41.0
65.5°	39.6	39.6	39.6	39.8	39.8	39.8	39.6	39.6	39.6	39.6	39.6
66°	38.3	38.3	38.4	38.5	38.6	38.5	38.4	38.3	38.3	38.3	38.4



TEST NUMBER: P776854

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	34.6	34.7	34.8	34.9	34.9	34.9	34.8	34.7	34.6	34.7	34.8
68°	33.5	33.6	33.7	33.7	33.7	33.7	33.7	33.6	33.5	33.6	33.7
68.5°	32.3	32.4	32.5	32.5	32.6	32.5	32.5	32.4	32.3	32.4	32.5
69°	31.3	31.3	31.3	31.4	31.4	31.4	31.3	31.3	31.3	31.3	31.3
69.5°	30.1	30.2	30.2	30.3	30.4	30.3	30.2	30.2	30.1	30.2	30.2
70°	29.1	29.2	29.1	29.2	29.3	29.2	29.1	29.2	29.1	29.2	29.1
70.5°	28.1	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.1	28.2	28.2
71°	27.1	27.1	27.1	27.1	27.2	27.1	27.1	27.1	27.1	27.1	27.1
71.5°	26.0	26.0	26.1	26.1	26.1	26.1	26.1	26.0	26.0	26.0	26.1
72°	25.0	25.0	25.0	25.1	25.1	25.1	25.0	25.0	25.0	25.0	25.0
72.5°	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
73°	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
73.5°	22.1	22.1	22.2	22.2	22.2	22.2	22.2	22.1	22.1	22.1	22.2
74°	21.2	21.2	21.2	21.3	21.3	21.3	21.2	21.2	21.2	21.2	21.2
74.5°	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
75°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
75.5°	18.5	18.5	18.5	18.5	18.6	18.5	18.5	18.5	18.5	18.5	18.5
76°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
76.5°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
77°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
77.5°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
78°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
78.5°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
79°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
79.5°	12.0	12.0	11.9	12.0	12.0	12.0	11.9	12.0	12.0	12.0	11.9
80°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
80.5°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
81°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
81.5°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
82°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
82.5°	7.7	7.7	7.7	7.7	7.6	7.7	7.7	7.7	7.7	7.7	7.7
83°	7.1	7.1	7.1	7.0	7.0	7.0	7.1	7.1	7.1	7.1	7.1
83.5°	6.4	6.4	6.4	6.3	6.3	6.3	6.4	6.4	6.4	6.4	6.4
84°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
84.5°	5.2	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.2	5.1	5.1
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
86°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
86.5°	2.8	2.7	2.7	2.7	2.8	2.7	2.7	2.7	2.8	2.7	2.7
87°	2.2	2.2	2.2	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.2
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°	1.1	1.1	1.1	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1
88.5°	0.7	0.7	0.7	0.8	1.0	0.8	0.7	0.7	0.7	0.7	0.7



TEST NUMBER: P776854

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-5000K

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: P776854

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	613.0	613.0	613.0	613.0	613.0	613.0
0.5°	612.7	612.5	612.7	612.8	613.0	613.1
1°	612.6	612.2	612.6	612.6	612.7	612.8
1.5°	612.2	611.9	612.2	612.3	612.3	612.5
2°	611.7	611.3	611.7	611.7	611.9	612.0
2.5°	611.0	610.6	611.0	611.1	611.2	611.4
3°	610.1	609.7	610.1	610.3	610.4	610.6
3.5°	609.1	608.9	609.1	609.3	609.5	609.7
4°	608.0	607.6	608.0	608.2	608.5	608.6
4.5°	606.8	606.3	606.8	607.0	607.3	607.5
5°	605.6	605.0	605.6	605.7	606.1	606.3
5.5°	603.9	603.5	603.9	604.1	604.5	605.1
6°	602.2	601.6	602.2	602.5	602.9	603.2
6.5°	600.3	599.7	600.3	600.6	601.1	601.3
7°	598.4	597.8	598.4	598.8	599.0	599.3
7.5°	596.3	595.7	596.3	596.5	596.8	597.1
8°	593.9	593.6	593.9	594.2	594.5	594.7
8.5°	591.4	591.1	591.4	591.6	592.0	592.3
9°	588.8	588.4	588.8	589.0	589.4	589.7
9.5°	586.0	585.6	586.0	586.2	586.6	586.8
10°	583.0	582.6	583.0	583.3	583.7	583.9
10.5°	579.9	579.6	579.9	580.1	580.5	580.7
11°	576.7	576.3	576.7	577.0	577.3	577.5
11.5°	573.3	573.0	573.3	573.7	574.0	574.1
12°	569.9	569.5	569.9	570.3	570.5	570.7
12.5°	566.3	565.9	566.3	566.7	566.9	567.1
13°	562.7	562.2	562.7	563.0	563.2	563.4
13.5°	558.9	558.5	558.9	559.2	559.4	559.5
14°	555.0	554.7	555.0	555.3	555.5	555.6
14.5°	551.0	550.7	551.0	551.3	551.4	551.5
15°	547.1	546.7	547.1	547.2	547.4	547.4
15.5°	543.1	542.9	543.1	543.3	543.1	543.1
16°	539.3	539.1	539.3	539.3	539.1	539.0
16.5°	535.4	535.3	535.4	535.4	535.1	534.9
17°	531.5	531.5	531.5	531.5	531.2	531.0
17.5°	527.6	527.5	527.6	527.7	527.4	527.3
18°	523.7	523.5	523.7	523.8	523.7	523.6
18.5°	519.5	519.2	519.5	519.6	519.6	519.6
19°	515.0	514.7	515.0	515.2	515.4	515.6
19.5°	510.2	509.9	510.2	510.4	510.9	511.2
20°	505.1	504.5	505.1	505.0	505.9	506.3
20.5°	499.6	498.9	499.6	499.3	500.3	501.0
21°	493.6	492.8	493.6	493.2	494.4	495.4

TEST NUMBER: P776854

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	473.1	472.7	473.1	473.2	474.0	475.0
23°	465.6	465.5	465.6	466.2	466.4	467.2
23.5°	457.9	458.3	457.9	458.9	458.5	459.2
24°	450.0	450.8	450.0	451.3	450.4	450.9
24.5°	442.1	443.0	442.1	443.4	442.1	442.4
25°	434.1	434.8	434.1	435.1	433.6	433.4
25.5°	426.1	426.3	426.1	426.5	425.2	424.2
26°	417.8	417.2	417.8	417.8	416.5	414.6
26.5°	409.2	407.7	409.2	408.6	407.7	404.9
27°	400.4	398.1	400.4	399.5	398.5	395.3
27.5°	391.2	388.4	391.2	390.1	388.9	386.0
28°	381.7	378.6	381.7	380.6	379.4	376.6
28.5°	372.0	369.2	372.0	371.1	369.7	367.5
29°	362.2	360.2	362.2	361.5	360.0	358.5
29.5°	352.3	351.4	352.3	352.1	350.4	349.6
30°	342.5	342.6	342.5	342.4	340.5	340.8
30.5°	333.0	334.2	333.0	332.8	331.0	331.6
31°	323.4	325.3	323.4	323.1	321.2	322.5
31.5°	314.0	316.4	314.0	313.4	311.9	313.1
32°	304.7	307.2	304.7	303.8	302.4	303.6
32.5°	295.5	298.0	295.5	294.4	293.4	294.4
33°	286.3	288.6	286.3	284.7	284.4	285.1
33.5°	277.1	279.2	277.1	275.1	275.3	276.8
34°	268.1	270.2	268.1	265.6	266.3	267.9
34.5°	259.0	261.4	259.0	256.3	257.4	259.0
35°	250.2	252.8	250.2	247.5	248.7	250.0
35.5°	241.5	244.3	241.5	238.8	240.0	241.3
36°	233.1	236.0	233.1	230.3	231.4	232.8
36.5°	224.8	227.6	224.8	222.1	223.1	224.4
37°	216.8	219.2	216.8	214.1	214.9	215.8
37.5°	209.1	210.8	209.1	206.4	207.0	207.5
38°	201.5	202.5	201.5	199.0	199.2	199.3
38.5°	194.1	194.6	194.1	191.9	191.8	191.6
39°	187.0	186.9	187.0	184.9	184.5	184.1
39.5°	179.9	179.7	179.9	178.1	177.6	176.8
40°	173.1	172.8	173.1	171.7	170.7	169.8
40.5°	166.5	166.4	166.5	165.4	164.1	163.3
41°	160.2	160.5	160.2	159.5	157.8	157.0
41.5°	154.2	155.0	154.2	153.8	151.9	151.0
42°	148.7	149.7	148.7	148.4	146.3	145.4
42.5°	143.4	144.5	143.4	143.3	141.0	140.1
43°	138.5	139.5	138.5	138.3	136.1	135.1
43.5°	133.7	134.6	133.7	133.6	131.5	130.5



TEST NUMBER: P776854

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	121.2	121.7	121.2	120.8	119.5	118.7
45.5°	117.6	117.9	117.6	117.1	115.9	115.3
46°	114.2	114.4	114.2	113.6	112.5	112.0
46.5°	110.9	111.1	110.9	110.2	109.4	108.9
47°	107.9	108.1	107.9	107.2	106.4	106.1
47.5°	105.1	105.4	105.1	104.3	103.6	103.4
48°	102.5	102.9	102.5	101.9	101.1	100.8
48.5°	100.2	100.4	100.2	99.5	98.9	98.8
49°	97.9	98.1	97.9	97.4	96.9	96.8
49.5°	95.7	95.8	95.7	95.3	95.0	94.9
50°	93.6	93.7	93.6	93.3	93.0	92.9
50.5°	91.5	91.5	91.5	91.2	91.0	91.0
51°	89.5	89.5	89.5	89.2	88.9	88.7
51.5°	87.4	87.5	87.4	87.0	86.7	86.6
52°	85.3	85.4	85.3	84.9	84.6	84.4
52.5°	83.1	83.2	83.1	82.7	82.3	82.2
53°	80.9	81.1	80.9	80.6	80.3	80.1
53.5°	78.9	79.1	78.9	78.5	78.2	78.0
54°	76.8	76.9	76.8	76.4	76.1	76.0
54.5°	74.8	74.9	74.8	74.5	74.1	74.0
55°	72.8	72.9	72.8	72.6	72.2	72.1
55.5°	70.9	71.0	70.9	70.7	70.4	70.2
56°	69.0	69.1	69.0	68.8	68.5	68.4
56.5°	67.2	67.3	67.2	67.0	66.7	66.6
57°	65.4	65.5	65.4	65.2	64.9	64.8
57.5°	63.6	63.8	63.6	63.5	63.2	63.0
58°	62.0	62.1	62.0	61.7	61.5	61.4
58.5°	60.3	60.3	60.3	60.1	59.8	59.8
59°	58.5	58.7	58.5	58.4	58.2	58.1
59.5°	57.0	57.1	57.0	56.7	56.6	56.5
60°	55.3	55.4	55.3	55.2	55.0	54.9
60.5°	53.8	53.9	53.8	53.6	53.4	53.4
61°	52.3	52.4	52.3	52.1	52.0	51.9
61.5°	50.8	50.9	50.8	50.7	50.5	50.4
62°	49.3	49.3	49.3	49.2	49.0	49.0
62.5°	47.9	47.9	47.9	47.7	47.6	47.5
63°	46.5	46.5	46.5	46.3	46.2	46.1
63.5°	45.1	45.1	45.1	44.9	44.8	44.7
64°	43.7	43.8	43.7	43.6	43.5	43.4
64.5°	42.4	42.4	42.4	42.3	42.2	42.1
65°	41.0	41.1	41.0	41.0	40.9	40.8
65.5°	39.8	39.8	39.8	39.6	39.6	39.6
66°	38.5	38.6	38.5	38.4	38.3	38.3



TEST NUMBER: P776854

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	34.9	34.9	34.9	34.8	34.7	34.6
68°	33.7	33.7	33.7	33.7	33.6	33.5
68.5°	32.5	32.6	32.5	32.5	32.4	32.3
69°	31.4	31.4	31.4	31.3	31.3	31.3
69.5°	30.3	30.4	30.3	30.2	30.2	30.1
70°	29.2	29.3	29.2	29.1	29.2	29.1
70.5°	28.2	28.2	28.2	28.2	28.2	28.1
71°	27.1	27.2	27.1	27.1	27.1	27.1
71.5°	26.1	26.1	26.1	26.1	26.0	26.0
72°	25.1	25.1	25.1	25.0	25.0	25.0
72.5°	24.1	24.1	24.1	24.1	24.1	24.1
73°	23.1	23.1	23.1	23.1	23.1	23.1
73.5°	22.2	22.2	22.2	22.2	22.1	22.1
74°	21.3	21.3	21.3	21.2	21.2	21.2
74.5°	20.3	20.3	20.3	20.3	20.3	20.3
75°	19.4	19.4	19.4	19.4	19.4	19.4
75.5°	18.5	18.6	18.5	18.5	18.5	18.5
76°	17.6	17.6	17.6	17.6	17.6	17.6
76.5°	16.7	16.7	16.7	16.7	16.7	16.7
77°	15.9	15.9	15.9	15.9	15.9	15.9
77.5°	15.1	15.1	15.1	15.1	15.1	15.1
78°	14.3	14.3	14.3	14.3	14.3	14.3
78.5°	13.5	13.5	13.5	13.5	13.5	13.5
79°	12.7	12.7	12.7	12.7	12.7	12.7
79.5°	12.0	12.0	12.0	11.9	12.0	12.0
80°	11.2	11.2	11.2	11.2	11.2	11.2
80.5°	10.5	10.5	10.5	10.5	10.5	10.5
81°	9.8	9.8	9.8	9.8	9.8	9.8
81.5°	9.0	9.0	9.0	9.0	9.0	9.0
82°	8.4	8.4	8.4	8.4	8.4	8.4
82.5°	7.7	7.6	7.7	7.7	7.7	7.7
83°	7.0	7.0	7.0	7.1	7.1	7.1
83.5°	6.3	6.3	6.3	6.4	6.4	6.4
84°	5.7	5.7	5.7	5.7	5.7	5.7
84.5°	5.1	5.1	5.1	5.1	5.1	5.2
85°	4.5	4.5	4.5	4.5	4.5	4.5
85.5°	3.9	3.9	3.9	3.9	3.9	3.9
86°	3.3	3.3	3.3	3.3	3.3	3.3
86.5°	2.7	2.8	2.7	2.7	2.7	2.8
87°	2.1	2.2	2.1	2.2	2.2	2.2
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	1.1
88.5°	0.8	1.0	0.8	0.7	0.7	0.7



TEST NUMBER: P776854

CATALOG NUMBER: HCDJBL510CSD-HCD42TRMW-750lm-5000K

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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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°	488.9	488.1	486.7	487.1	486.3	487.1	486.7	488.1	488.9	488.1	486.7
22°	482.1	481.3	480.1	480.2	479.4	480.2	480.1	481.3	482.1	481.3	480.1



44°	126.3	127.2	129.1	129.3	130.1	129.3	129.1	127.2	126.3	127.2	129.1
44.5°	122.3	123.3	124.9	125.2	125.8	125.2	124.9	123.3	122.3	123.3	124.9



66.5°	37.0	37.1	37.2	37.3	37.4	37.3	37.2	37.1	37.0	37.1	37.2
67°	35.9	35.9	36.0	36.0	36.1	36.0	36.0	35.9	35.9	35.9	36.0



89°	0.2	0.3	0.5	0.6	0.7	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°	487.1	486.3	487.1	486.7	488.1	488.9
22°	480.2	479.4	480.2	480.1	481.3	482.1



44°	129.3	130.1	129.3	129.1	127.2	126.3
44.5°	125.2	125.8	125.2	124.9	123.3	122.3



66.5°	37.3	37.4	37.3	37.2	37.1	37.0
67°	36.0	36.1	36.0	36.0	35.9	35.9

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89°	0.6	0.7	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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(END OF REPORT)