

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: P775907

Luminaire Tested: HCDJBL510CSD-HCD8TSQMB-1000lm-3500K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B024-HCD8TSQMB)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD8TSQMB-1000lm-3500K
Description: 8 INCH SQUARE MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 759.9 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.28
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
CIE Type: Direct

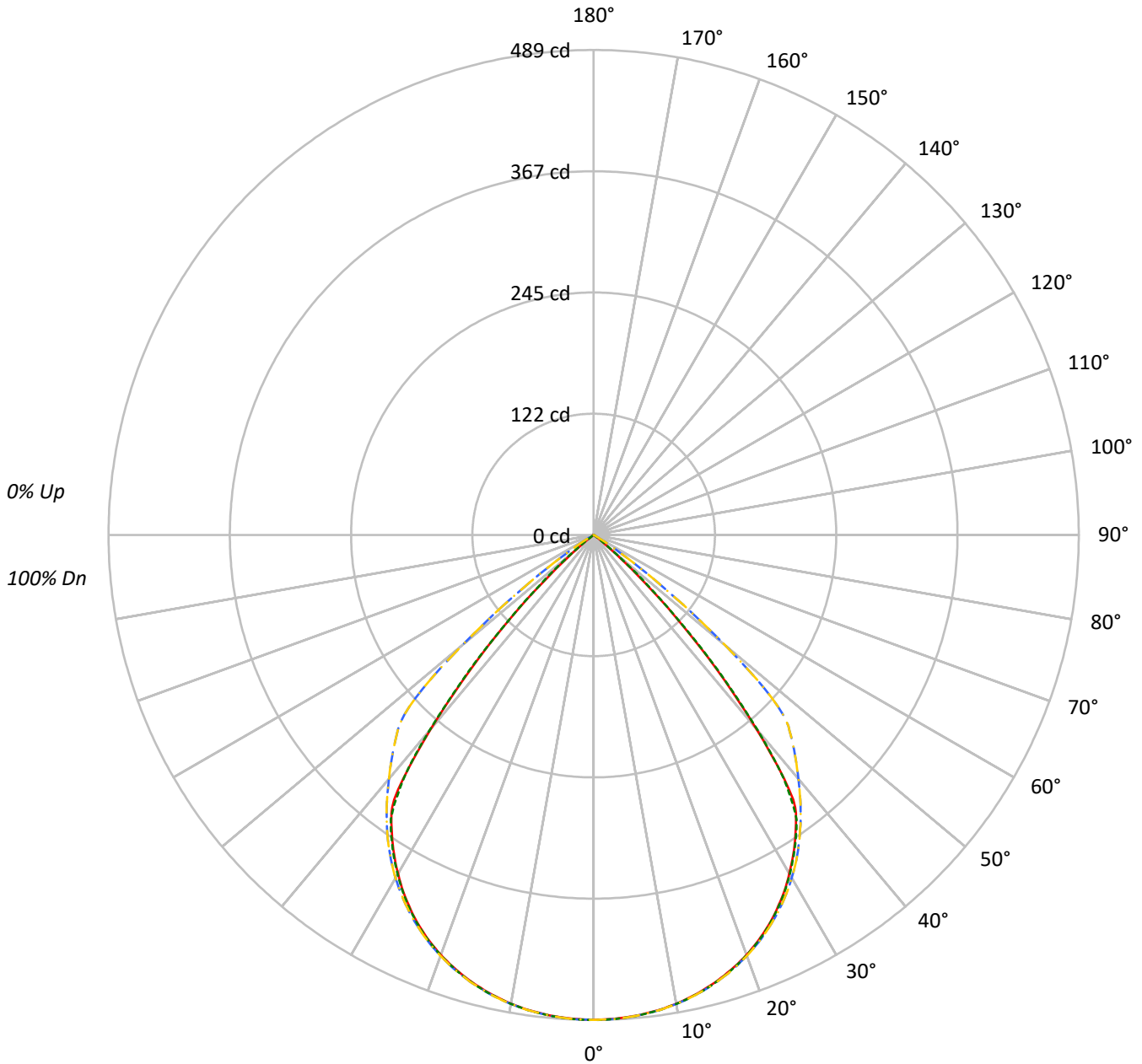
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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			100
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92			92
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84			84
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76			76
4	93	85	78	73	91	84	78	73	81	76	72	79	75	71	77	74	70	69			69
5	88	78	71	66	86	77	71	66	75	70	65	73	68	65	72	67	64	62			62
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57			57
7	77	66	59	55	76	66	59	54	64	58	54	63	58	54	62	57	53	52			52
8	72	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	47			47
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44			44
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			40

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11725	11725	11725	11725
5°	11712	11720	11712	11720
10°	11685	11692	11685	11692
15°	11618	11628	11618	11628
20°	11498	11508	11498	11508
25°	11281	11295	11281	11295
30°	10920	10942	10920	10942
35°	10406	10436	10406	10436
40°	7976	8045	7976	8045
45°	3954	4056	3954	4056
50°	869	1059	869	1059
55°	13	17	13	17
60°	10	14	10	14
65°	11	11	11	11
70°	7	7	7	7
75°	9	9	9	9
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 9471 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	6.1
10°-20°	132.1	17.4
20°-30°	196.7	25.9
30°-40°	222.5	29.3
40°-50°	142.0	18.7
50°-60°	20.1	2.7
60°-70°	0.2	0.0
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	375.0	49.4
0°-40°	597.5	78.6
0°-60°	759.6	100.0
0°-90°	759.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	759.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	489	489	489	489	489	
5°	487	487	487	487	487	46
15°	468	468	468	468	468	132
25°	426	427	426	427	426	196
35°	356	356	356	356	356	216
45°	117	120	117	120	117	93
55°	0	0	0	0	0	3
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
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°	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0
0.5°	488.8	488.9	489.0	489.1	489.1	489.1	489.0	488.9	488.8	488.9	489.0
1°	488.7	488.8	488.9	489.0	489.0	489.0	488.9	488.8	488.7	488.8	488.9
1.5°	488.6	488.7	488.8	488.9	488.9	488.9	488.8	488.7	488.6	488.7	488.8
2°	488.5	488.5	488.7	488.8	488.7	488.8	488.7	488.5	488.5	488.5	488.7
2.5°	488.3	488.4	488.5	488.6	488.6	488.6	488.5	488.4	488.3	488.4	488.5
3°	488.0	488.0	488.3	488.4	488.3	488.4	488.3	488.0	488.0	488.0	488.3
3.5°	487.7	487.8	487.9	488.0	488.0	488.0	487.9	487.8	487.7	487.8	487.9
4°	487.4	487.5	487.6	487.7	487.6	487.7	487.6	487.5	487.4	487.5	487.6
4.5°	487.0	487.1	487.2	487.3	487.3	487.3	487.2	487.1	487.0	487.1	487.2
5°	486.6	486.7	486.9	486.9	486.9	486.9	486.9	486.7	486.6	486.7	486.9
5.5°	486.2	486.3	486.4	486.5	486.4	486.5	486.4	486.3	486.2	486.3	486.4
6°	485.7	485.8	485.9	486.0	486.0	486.0	485.9	485.8	485.7	485.8	485.9
6.5°	485.1	485.2	485.4	485.5	485.4	485.5	485.4	485.2	485.1	485.2	485.4
7°	484.5	484.6	484.8	484.8	484.8	484.8	484.8	484.6	484.5	484.6	484.8
7.5°	483.9	484.0	484.1	484.2	484.1	484.2	484.1	484.0	483.9	484.0	484.1
8°	483.2	483.3	483.5	483.5	483.5	483.5	483.5	483.3	483.2	483.3	483.5
8.5°	482.5	482.6	482.8	482.8	482.7	482.8	482.8	482.6	482.5	482.6	482.8
9°	481.6	481.7	481.9	482.0	481.9	482.0	481.9	481.7	481.6	481.7	481.9
9.5°	480.8	480.9	481.1	481.2	481.0	481.2	481.1	480.9	480.8	480.9	481.1
10°	479.9	480.1	480.3	480.3	480.2	480.3	480.3	480.1	479.9	480.1	480.3
10.5°	478.9	479.1	479.3	479.3	479.2	479.3	479.3	479.1	478.9	479.1	479.3
11°	477.9	478.1	478.4	478.3	478.2	478.3	478.4	478.1	477.9	478.1	478.4
11.5°	476.9	477.1	477.4	477.3	477.2	477.3	477.4	477.1	476.9	477.1	477.4
12°	475.7	475.9	476.2	476.2	476.0	476.2	476.2	475.9	475.7	475.9	476.2
12.5°	474.6	474.8	475.1	475.1	474.9	475.1	475.1	474.8	474.6	474.8	475.1
13°	473.3	473.6	474.0	474.0	473.8	474.0	474.0	473.6	473.3	473.6	474.0
13.5°	472.1	472.4	472.7	472.7	472.5	472.7	472.7	472.4	472.1	472.4	472.7
14°	470.7	471.1	471.4	471.4	471.2	471.4	471.4	471.1	470.7	471.1	471.4
14.5°	469.4	469.7	470.0	470.0	469.8	470.0	470.0	469.7	469.4	469.7	470.0
15°	468.0	468.3	468.7	468.6	468.4	468.6	468.7	468.3	468.0	468.3	468.7
15.5°	466.5	466.8	467.2	467.1	466.9	467.1	467.2	466.8	466.5	466.8	467.2
16°	464.9	465.3	465.7	465.7	465.4	465.7	465.7	465.3	464.9	465.3	465.7
16.5°	463.4	463.7	464.1	464.1	463.8	464.1	464.1	463.7	463.4	463.7	464.1
17°	461.6	462.0	462.6	462.5	462.2	462.5	462.6	462.0	461.6	462.0	462.6
17.5°	460.0	460.4	460.8	460.8	460.5	460.8	460.8	460.4	460.0	460.4	460.8
18°	458.2	458.6	459.1	459.0	458.6	459.0	459.1	458.6	458.2	458.6	459.1
18.5°	456.4	456.9	457.3	457.2	456.8	457.2	457.3	456.9	456.4	456.9	457.3
19°	454.5	455.0	455.4	455.3	454.9	455.3	455.4	455.0	454.5	455.0	455.4
19.5°	452.5	453.0	453.6	453.5	453.0	453.5	453.6	453.0	452.5	453.0	453.6
20°	450.6	451.1	451.6	451.5	451.0	451.5	451.6	451.1	450.6	451.1	451.6
20.5°	448.4	449.0	449.6	449.4	448.9	449.4	449.6	449.0	448.4	449.0	449.6
21°	446.2	446.9	447.5	447.3	446.7	447.3	447.5	446.9	446.2	446.9	447.5



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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°	439.4	440.2	440.9	440.6	439.9	440.6	440.9	440.2	439.4	440.2	440.9
23°	436.9	437.8	438.6	438.2	437.4	438.2	438.6	437.8	436.9	437.8	438.6
23.5°	434.4	435.4	436.3	435.7	434.9	435.7	436.3	435.4	434.4	435.4	436.3
24°	431.9	432.8	433.8	433.3	432.3	433.3	433.8	432.8	431.9	432.8	433.8
24.5°	429.2	430.2	431.3	430.7	429.7	430.7	431.3	430.2	429.2	430.2	431.3
25°	426.4	427.7	428.7	428.0	426.9	428.0	428.7	427.7	426.4	427.7	428.7
25.5°	423.5	425.0	426.1	425.3	424.1	425.3	426.1	425.0	423.5	425.0	426.1
26°	420.7	422.2	423.4	422.5	421.3	422.5	423.4	422.2	420.7	422.2	423.4
26.5°	417.6	419.3	420.6	419.6	418.3	419.6	420.6	419.3	417.6	419.3	420.6
27°	414.6	416.3	417.8	416.6	415.2	416.6	417.8	416.3	414.6	416.3	417.8
27.5°	411.5	413.3	414.9	413.6	412.1	413.6	414.9	413.3	411.5	413.3	414.9
28°	408.2	410.2	411.9	410.5	408.9	410.5	411.9	410.2	408.2	410.2	411.9
28.5°	404.9	406.9	408.9	407.4	405.6	407.4	408.9	406.9	404.9	406.9	408.9
29°	401.5	403.6	405.8	404.0	402.3	404.0	405.8	403.6	401.5	403.6	405.8
29.5°	398.0	400.3	402.6	400.7	398.8	400.7	402.6	400.3	398.0	400.3	402.6
30°	394.4	396.9	399.4	397.4	395.2	397.4	399.4	396.9	394.4	396.9	399.4
30.5°	390.8	393.5	396.1	393.9	391.7	393.9	396.1	393.5	390.8	393.5	396.1
31°	387.2	389.9	392.7	390.4	388.1	390.4	392.7	389.9	387.2	389.9	392.7
31.5°	383.4	386.3	389.2	386.9	384.3	386.9	389.2	386.3	383.4	386.3	389.2
32°	379.7	382.7	385.7	383.2	380.5	383.2	385.7	382.7	379.7	382.7	385.7
32.5°	375.9	379.0	382.1	379.5	376.7	379.5	382.1	379.0	375.9	379.0	382.1
33°	371.9	375.3	378.5	375.8	372.9	375.8	378.5	375.3	371.9	375.3	378.5
33.5°	367.9	371.4	374.6	372.0	368.9	372.0	374.6	371.4	367.9	371.4	374.6
34°	363.8	367.7	370.8	368.2	364.9	368.2	370.8	367.7	363.8	367.7	370.8
34.5°	359.6	363.8	367.0	364.3	360.8	364.3	367.0	363.8	359.6	363.8	367.0
35°	355.5	359.8	362.9	360.3	356.5	360.3	362.9	359.8	355.5	359.8	362.9
35.5°	351.1	355.9	359.0	356.4	352.2	356.4	359.0	355.9	351.1	355.9	359.0
36°	346.8	351.8	355.0	352.4	345.2	352.4	355.0	351.8	346.8	351.8	355.0
36.5°	341.6	347.6	350.8	348.2	337.6	348.2	350.8	347.6	341.6	347.6	350.8
37°	334.4	343.4	346.7	344.1	328.5	344.1	346.7	343.4	334.4	343.4	346.7
37.5°	323.6	339.1	342.4	339.7	319.8	339.7	342.4	339.1	323.6	339.1	342.4
38°	311.8	334.9	338.2	334.9	309.9	334.9	338.2	334.9	311.8	334.9	338.2
38.5°	297.8	330.3	333.9	327.9	298.5	327.9	333.9	330.3	297.8	330.3	333.9
39°	283.6	324.3	329.8	319.8	285.8	319.8	329.8	324.3	283.6	324.3	329.8
39.5°	269.2	316.1	325.4	311.4	271.6	311.4	325.4	316.1	269.2	316.1	325.4
40°	254.8	305.5	321.1	302.3	257.0	302.3	321.1	305.5	254.8	305.5	321.1
40.5°	240.3	293.2	316.9	292.1	242.1	292.1	316.9	293.2	240.3	293.2	316.9
41°	225.6	279.9	312.7	280.7	227.8	280.7	312.7	279.9	225.6	279.9	312.7
41.5°	211.4	266.4	308.5	268.2	213.7	268.2	308.5	266.4	211.4	266.4	308.5
42°	197.0	252.8	304.4	254.6	199.9	254.6	304.4	252.8	197.0	252.8	304.4
42.5°	183.1	239.4	300.3	240.8	186.2	240.8	300.3	239.4	183.1	239.4	300.3
43°	169.2	225.6	296.1	226.8	172.3	226.8	296.1	225.6	169.2	225.6	296.1
43.5°	155.7	211.8	291.9	213.4	158.6	213.4	291.9	211.8	155.7	211.8	291.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	116.6	171.4	279.3	174.0	119.6	174.0	279.3	171.4	116.6	171.4	279.3
45.5°	104.3	158.5	275.1	160.9	107.6	160.9	275.1	158.5	104.3	158.5	275.1
46°	92.7	145.7	269.6	148.1	96.1	148.1	269.6	145.7	92.7	145.7	269.6
46.5°	81.4	133.1	263.2	135.6	84.9	135.6	263.2	133.1	81.4	133.1	263.2
47°	70.2	120.7	254.2	123.3	75.1	123.3	254.2	120.7	70.2	120.7	254.2
47.5°	59.6	108.5	244.1	111.3	66.7	111.3	244.1	108.5	59.6	108.5	244.1
48°	50.2	97.2	232.0	99.8	58.4	99.8	232.0	97.2	50.2	97.2	232.0
48.5°	41.7	86.2	218.8	88.9	50.1	88.9	218.8	86.2	41.7	86.2	218.8
49°	35.2	75.3	203.7	78.4	41.8	78.4	203.7	75.3	35.2	75.3	203.7
49.5°	29.1	64.7	188.5	68.7	34.5	68.7	188.5	64.7	29.1	64.7	188.5
50°	23.3	54.8	172.8	60.2	28.4	60.2	172.8	54.8	23.3	54.8	172.8
50.5°	18.5	45.9	157.3	52.2	22.4	52.2	157.3	45.9	18.5	45.9	157.3
51°	13.9	38.3	142.3	44.5	17.0	44.5	142.3	38.3	13.9	38.3	142.3
51.5°	9.9	32.0	128.3	37.4	13.4	37.4	128.3	32.0	9.9	32.0	128.3
52°	6.0	26.0	114.7	30.9	10.7	30.9	114.7	26.0	6.0	26.0	114.7
52.5°	2.2	20.9	101.5	25.0	8.0	25.0	101.5	20.9	2.2	20.9	101.5
53°	1.2	16.3	89.0	19.9	5.4	19.9	89.0	16.3	1.2	16.3	89.0
53.5°	0.9	12.0	77.9	15.1	3.1	15.1	77.9	12.0	0.9	12.0	77.9
54°	0.6	8.3	67.4	11.1	0.8	11.1	67.4	8.3	0.6	8.3	67.4
54.5°	0.3	4.6	57.7	8.3	0.4	8.3	57.7	4.6	0.3	4.6	57.7
55°	0.3	1.6	48.9	5.6	0.4	5.6	48.9	1.6	0.3	1.6	48.9
55.5°	0.3	0.9	40.5	3.4	0.4	3.4	40.5	0.9	0.3	0.9	40.5
56°	0.3	0.7	33.1	2.1	0.3	2.1	33.1	0.7	0.3	0.7	33.1
56.5°	0.3	0.4	27.3	0.8	0.3	0.8	27.3	0.4	0.3	0.4	27.3
57°	0.3	0.3	21.9	0.5	0.3	0.5	21.9	0.3	0.3	0.3	21.9
57.5°	0.3	0.3	17.0	0.3	0.3	0.3	17.0	0.3	0.3	0.3	17.0
58°	0.3	0.3	12.6	0.3	0.3	0.3	12.6	0.3	0.3	0.3	12.6
58.5°	0.2	0.2	9.1	0.3	0.3	0.3	9.1	0.2	0.2	0.2	9.1
59°	0.2	0.2	6.9	0.2	0.3	0.2	6.9	0.2	0.2	0.2	6.9
59.5°	0.2	0.2	5.1	0.2	0.3	0.2	5.1	0.2	0.2	0.2	5.1
60°	0.2	0.2	3.3	0.2	0.3	0.2	3.3	0.2	0.2	0.2	3.3
60.5°	0.2	0.2	2.0	0.2	0.2	0.2	2.0	0.2	0.2	0.2	2.0
61°	0.2	0.2	1.2	0.2	0.2	0.2	1.2	0.2	0.2	0.2	1.2
61.5°	0.2	0.2	0.7	0.2	0.2	0.2	0.7	0.2	0.2	0.2	0.7
62°	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
63°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
63.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
64°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
64.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1
65.5°	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1
66°	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P775907

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQMB-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
68°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
68.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
69°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
69.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
71°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
71.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
73°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
73.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
76°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
76.5°	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0
77°	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0
77.5°	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.0
78°	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775907

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQMB-1000lm-3500K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P775907

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQMB-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	489.0	489.0	489.0	489.0	489.0	489.0
0.5°	489.1	489.1	489.1	489.0	488.9	488.8
1°	489.0	489.0	489.0	488.9	488.8	488.7
1.5°	488.9	488.9	488.9	488.8	488.7	488.6
2°	488.8	488.7	488.8	488.7	488.5	488.5
2.5°	488.6	488.6	488.6	488.5	488.4	488.3
3°	488.4	488.3	488.4	488.3	488.0	488.0
3.5°	488.0	488.0	488.0	487.9	487.8	487.7
4°	487.7	487.6	487.7	487.6	487.5	487.4
4.5°	487.3	487.3	487.3	487.2	487.1	487.0
5°	486.9	486.9	486.9	486.9	486.7	486.6
5.5°	486.5	486.4	486.5	486.4	486.3	486.2
6°	486.0	486.0	486.0	485.9	485.8	485.7
6.5°	485.5	485.4	485.5	485.4	485.2	485.1
7°	484.8	484.8	484.8	484.8	484.6	484.5
7.5°	484.2	484.1	484.2	484.1	484.0	483.9
8°	483.5	483.5	483.5	483.5	483.3	483.2
8.5°	482.8	482.7	482.8	482.8	482.6	482.5
9°	482.0	481.9	482.0	481.9	481.7	481.6
9.5°	481.2	481.0	481.2	481.1	480.9	480.8
10°	480.3	480.2	480.3	480.3	480.1	479.9
10.5°	479.3	479.2	479.3	479.3	479.1	478.9
11°	478.3	478.2	478.3	478.4	478.1	477.9
11.5°	477.3	477.2	477.3	477.4	477.1	476.9
12°	476.2	476.0	476.2	476.2	475.9	475.7
12.5°	475.1	474.9	475.1	475.1	474.8	474.6
13°	474.0	473.8	474.0	474.0	473.6	473.3
13.5°	472.7	472.5	472.7	472.7	472.4	472.1
14°	471.4	471.2	471.4	471.4	471.1	470.7
14.5°	470.0	469.8	470.0	470.0	469.7	469.4
15°	468.6	468.4	468.6	468.7	468.3	468.0
15.5°	467.1	466.9	467.1	467.2	466.8	466.5
16°	465.7	465.4	465.7	465.7	465.3	464.9
16.5°	464.1	463.8	464.1	464.1	463.7	463.4
17°	462.5	462.2	462.5	462.6	462.0	461.6
17.5°	460.8	460.5	460.8	460.8	460.4	460.0
18°	459.0	458.6	459.0	459.1	458.6	458.2
18.5°	457.2	456.8	457.2	457.3	456.9	456.4
19°	455.3	454.9	455.3	455.4	455.0	454.5
19.5°	453.5	453.0	453.5	453.6	453.0	452.5
20°	451.5	451.0	451.5	451.6	451.1	450.6
20.5°	449.4	448.9	449.4	449.6	449.0	448.4
21°	447.3	446.7	447.3	447.5	446.9	446.2

TEST NUMBER: P775907

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQMB-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	440.6	439.9	440.6	440.9	440.2	439.4
23°	438.2	437.4	438.2	438.6	437.8	436.9
23.5°	435.7	434.9	435.7	436.3	435.4	434.4
24°	433.3	432.3	433.3	433.8	432.8	431.9
24.5°	430.7	429.7	430.7	431.3	430.2	429.2
25°	428.0	426.9	428.0	428.7	427.7	426.4
25.5°	425.3	424.1	425.3	426.1	425.0	423.5
26°	422.5	421.3	422.5	423.4	422.2	420.7
26.5°	419.6	418.3	419.6	420.6	419.3	417.6
27°	416.6	415.2	416.6	417.8	416.3	414.6
27.5°	413.6	412.1	413.6	414.9	413.3	411.5
28°	410.5	408.9	410.5	411.9	410.2	408.2
28.5°	407.4	405.6	407.4	408.9	406.9	404.9
29°	404.0	402.3	404.0	405.8	403.6	401.5
29.5°	400.7	398.8	400.7	402.6	400.3	398.0
30°	397.4	395.2	397.4	399.4	396.9	394.4
30.5°	393.9	391.7	393.9	396.1	393.5	390.8
31°	390.4	388.1	390.4	392.7	389.9	387.2
31.5°	386.9	384.3	386.9	389.2	386.3	383.4
32°	383.2	380.5	383.2	385.7	382.7	379.7
32.5°	379.5	376.7	379.5	382.1	379.0	375.9
33°	375.8	372.9	375.8	378.5	375.3	371.9
33.5°	372.0	368.9	372.0	374.6	371.4	367.9
34°	368.2	364.9	368.2	370.8	367.7	363.8
34.5°	364.3	360.8	364.3	367.0	363.8	359.6
35°	360.3	356.5	360.3	362.9	359.8	355.5
35.5°	356.4	352.2	356.4	359.0	355.9	351.1
36°	352.4	345.2	352.4	355.0	351.8	346.8
36.5°	348.2	337.6	348.2	350.8	347.6	341.6
37°	344.1	328.5	344.1	346.7	343.4	334.4
37.5°	339.7	319.8	339.7	342.4	339.1	323.6
38°	334.9	309.9	334.9	338.2	334.9	311.8
38.5°	327.9	298.5	327.9	333.9	330.3	297.8
39°	319.8	285.8	319.8	329.8	324.3	283.6
39.5°	311.4	271.6	311.4	325.4	316.1	269.2
40°	302.3	257.0	302.3	321.1	305.5	254.8
40.5°	292.1	242.1	292.1	316.9	293.2	240.3
41°	280.7	227.8	280.7	312.7	279.9	225.6
41.5°	268.2	213.7	268.2	308.5	266.4	211.4
42°	254.6	199.9	254.6	304.4	252.8	197.0
42.5°	240.8	186.2	240.8	300.3	239.4	183.1
43°	226.8	172.3	226.8	296.1	225.6	169.2
43.5°	213.4	158.6	213.4	291.9	211.8	155.7



TEST NUMBER: P775907

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQMB-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	174.0	119.6	174.0	279.3	171.4	116.6
45.5°	160.9	107.6	160.9	275.1	158.5	104.3
46°	148.1	96.1	148.1	269.6	145.7	92.7
46.5°	135.6	84.9	135.6	263.2	133.1	81.4
47°	123.3	75.1	123.3	254.2	120.7	70.2
47.5°	111.3	66.7	111.3	244.1	108.5	59.6
48°	99.8	58.4	99.8	232.0	97.2	50.2
48.5°	88.9	50.1	88.9	218.8	86.2	41.7
49°	78.4	41.8	78.4	203.7	75.3	35.2
49.5°	68.7	34.5	68.7	188.5	64.7	29.1
50°	60.2	28.4	60.2	172.8	54.8	23.3
50.5°	52.2	22.4	52.2	157.3	45.9	18.5
51°	44.5	17.0	44.5	142.3	38.3	13.9
51.5°	37.4	13.4	37.4	128.3	32.0	9.9
52°	30.9	10.7	30.9	114.7	26.0	6.0
52.5°	25.0	8.0	25.0	101.5	20.9	2.2
53°	19.9	5.4	19.9	89.0	16.3	1.2
53.5°	15.1	3.1	15.1	77.9	12.0	0.9
54°	11.1	0.8	11.1	67.4	8.3	0.6
54.5°	8.3	0.4	8.3	57.7	4.6	0.3
55°	5.6	0.4	5.6	48.9	1.6	0.3
55.5°	3.4	0.4	3.4	40.5	0.9	0.3
56°	2.1	0.3	2.1	33.1	0.7	0.3
56.5°	0.8	0.3	0.8	27.3	0.4	0.3
57°	0.5	0.3	0.5	21.9	0.3	0.3
57.5°	0.3	0.3	0.3	17.0	0.3	0.3
58°	0.3	0.3	0.3	12.6	0.3	0.3
58.5°	0.3	0.3	0.3	9.1	0.2	0.2
59°	0.2	0.3	0.2	6.9	0.2	0.2
59.5°	0.2	0.3	0.2	5.1	0.2	0.2
60°	0.2	0.3	0.2	3.3	0.2	0.2
60.5°	0.2	0.2	0.2	2.0	0.2	0.2
61°	0.2	0.2	0.2	1.2	0.2	0.2
61.5°	0.2	0.2	0.2	0.7	0.2	0.2
62°	0.2	0.2	0.2	0.3	0.2	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2
63°	0.2	0.2	0.2	0.2	0.2	0.2
63.5°	0.2	0.2	0.2	0.2	0.2	0.2
64°	0.2	0.2	0.2	0.2	0.2	0.2
64.5°	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.1	0.2	0.2
65.5°	0.1	0.2	0.1	0.1	0.1	0.1
66°	0.1	0.2	0.1	0.1	0.1	0.1



TEST NUMBER: P775907

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQMB-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.1	0.1	0.1	0.1	0.1	0.1
68°	0.1	0.1	0.1	0.1	0.1	0.1
68.5°	0.1	0.1	0.1	0.1	0.1	0.1
69°	0.1	0.1	0.1	0.1	0.1	0.1
69.5°	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1
70.5°	0.1	0.1	0.1	0.1	0.1	0.1
71°	0.1	0.1	0.1	0.1	0.1	0.1
71.5°	0.1	0.1	0.1	0.1	0.1	0.1
72°	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1
73°	0.1	0.1	0.1	0.1	0.1	0.1
73.5°	0.1	0.1	0.1	0.1	0.1	0.1
74°	0.1	0.1	0.1	0.1	0.1	0.1
74.5°	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.1	0.1	0.1
75.5°	0.1	0.1	0.1	0.1	0.1	0.1
76°	0.1	0.1	0.1	0.1	0.1	0.1
76.5°	0.1	0.1	0.1	0.0	0.1	0.1
77°	0.1	0.1	0.1	0.0	0.1	0.1
77.5°	0.1	0.1	0.1	0.0	0.1	0.0
78°	0.0	0.1	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775907

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQMB-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	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°	444.0	444.8	445.4	445.2	444.5	445.2	445.4	444.8	444.0	444.8	445.4
22°	441.7	442.5	443.2	442.9	442.3	442.9	443.2	442.5	441.7	442.5	443.2



44°	142.2	198.2	287.7	200.1	145.2	200.1	287.7	198.2	142.2	198.2	287.7
44.5°	129.3	184.8	283.6	187.0	132.3	187.0	283.6	184.8	129.3	184.8	283.6



66.5°	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1
67°	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1



89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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21.5°	445.2	444.5	445.2	445.4	444.8	444.0
22°	442.9	442.3	442.9	443.2	442.5	441.7



44°	200.1	145.2	200.1	287.7	198.2	142.2
44.5°	187.0	132.3	187.0	283.6	184.8	129.3

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66.5°	0.1	0.2	0.1	0.1	0.1	0.1
67°	0.1	0.2	0.1	0.1	0.1	0.1

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89°	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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(END OF REPORT)