

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: P775805

Luminaire Tested: HCDJBL510CSD-HCD6TSQMB-1000lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B015-HCD6TSQMB)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD6TSQMB-1000lm-2700K
Description: 6 INCH SQUARE MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

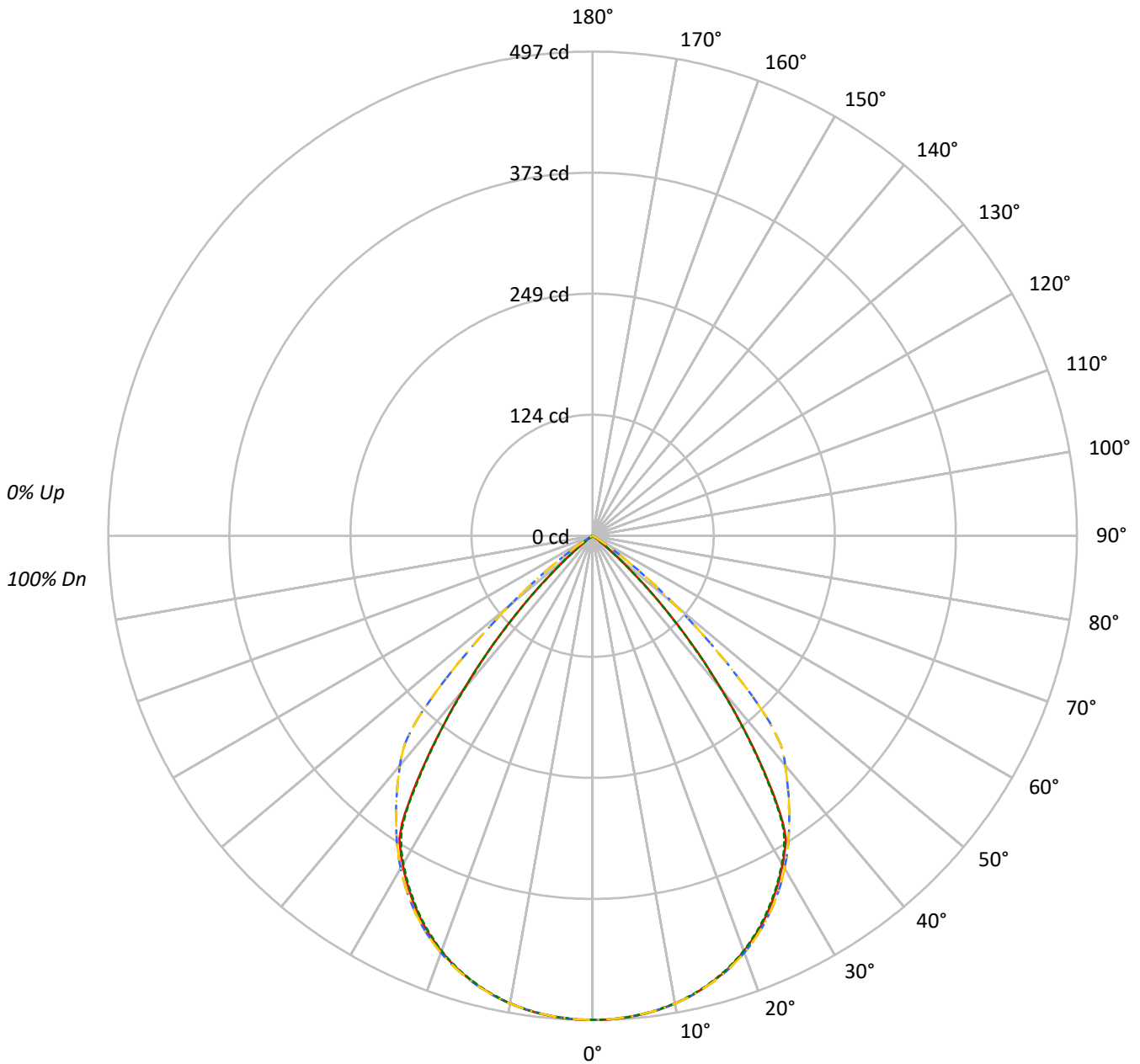
Lumens per Lamp: N/A
Luminaire Lumens: 717.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.23
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P775805
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMB-1000lm-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					100			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92					92			
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77					77			
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	74	71	70					70			
5	88	79	72	67	87	78	72	67	76	71	66	74	70	66	73	69	65	64					64			
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58					58			
7	78	68	61	56	77	67	60	56	66	60	56	64	59	55	63	58	55	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	69	58	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	21394	21394	21394	21394
5°	21385	21377	21385	21377
10°	21313	21300	21313	21300
15°	21133	21115	21133	21115
20°	20797	20770	20797	20770
25°	20224	20171	20224	20171
30°	19374	19315	19374	19315
35°	16956	16846	16956	16846
40°	11578	11505	11578	11505
45°	6028	6034	6028	6034
50°	1755	1735	1755	1735
55°	53	68	53	68
60°	17	17	17	17
65°	10	10	10	10
70°	13	13	13	13
75°	0	17	0	17
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13938 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	6.6
10°-20°	133.6	18.6
20°-30°	196.1	27.4
30°-40°	208.1	29.0
40°-50°	116.2	16.2
50°-60°	15.7	2.2
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°	376.8	52.5
0°-40°	584.9	81.6
0°-60°	716.8	100.0
0°-90°	717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	717.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	497	497	497	497	497	
5°	495	495	495	495	495	47
15°	474	474	474	474	474	134
25°	426	425	426	425	426	196
35°	323	320	323	320	323	195
45°	99	99	99	99	99	79
55°	1	1	1	1	1	4
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°	496.9	496.9	496.9	496.9	496.9	496.9	496.9	496.9	496.9	496.9	496.9
0.5°	497.1	496.9	496.9	496.8	496.9	496.8	496.9	496.9	497.1	496.9	496.9
1°	497.0	496.9	496.8	496.8	496.9	496.8	496.8	496.9	497.0	496.9	496.8
1.5°	496.9	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.9	496.7	496.7
2°	496.7	496.6	496.5	496.5	496.6	496.5	496.5	496.6	496.7	496.6	496.5
2.5°	496.5	496.4	496.3	496.3	496.4	496.3	496.3	496.4	496.5	496.4	496.3
3°	496.3	496.1	496.1	496.1	496.1	496.1	496.1	496.1	496.3	496.1	496.1
3.5°	496.0	495.9	495.8	495.8	495.8	495.8	495.8	495.9	496.0	495.9	495.8
4°	495.7	495.5	495.4	495.4	495.5	495.4	495.4	495.5	495.7	495.5	495.4
4.5°	495.3	495.1	495.1	495.0	495.1	495.0	495.1	495.1	495.3	495.1	495.1
5°	494.8	494.7	494.6	494.6	494.6	494.6	494.6	494.7	494.8	494.7	494.6
5.5°	494.3	494.2	494.1	494.1	494.1	494.1	494.1	494.2	494.3	494.2	494.1
6°	493.8	493.7	493.6	493.5	493.6	493.5	493.6	493.7	493.8	493.7	493.6
6.5°	493.2	493.1	493.0	493.0	493.0	493.0	493.0	493.1	493.2	493.1	493.0
7°	492.6	492.5	492.4	492.3	492.3	492.3	492.4	492.5	492.6	492.5	492.4
7.5°	491.9	491.8	491.7	491.6	491.6	491.6	491.7	491.8	491.9	491.8	491.7
8°	491.1	491.0	491.0	490.9	490.9	490.9	491.0	491.0	491.1	491.0	491.0
8.5°	490.3	490.2	490.2	490.1	490.0	490.1	490.2	490.2	490.3	490.2	490.2
9°	489.4	489.4	489.3	489.2	489.1	489.2	489.3	489.4	489.4	489.4	489.3
9.5°	488.5	488.5	488.4	488.3	488.2	488.3	488.4	488.5	488.5	488.5	488.4
10°	487.5	487.5	487.5	487.3	487.2	487.3	487.5	487.5	487.5	487.5	487.5
10.5°	486.5	486.5	486.5	486.3	486.2	486.3	486.5	486.5	486.5	486.5	486.5
11°	485.3	485.4	485.4	485.2	485.0	485.2	485.4	485.4	485.3	485.4	485.4
11.5°	484.2	484.3	484.3	484.0	483.8	484.0	484.3	484.3	484.2	484.3	484.3
12°	483.0	483.1	483.1	482.8	482.6	482.8	483.1	483.1	483.0	483.1	483.1
12.5°	481.7	481.8	481.9	481.5	481.3	481.5	481.9	481.8	481.7	481.8	481.9
13°	480.3	480.5	480.6	480.2	479.9	480.2	480.6	480.5	480.3	480.5	480.6
13.5°	478.9	479.1	479.2	478.8	478.5	478.8	479.2	479.1	478.9	479.1	479.2
14°	477.3	477.6	477.8	477.3	477.0	477.3	477.8	477.6	477.3	477.6	477.8
14.5°	475.8	476.1	476.3	475.8	475.4	475.8	476.3	476.1	475.8	476.1	476.3
15°	474.1	474.5	474.7	474.2	473.7	474.2	474.7	474.5	474.1	474.5	474.7
15.5°	472.5	472.8	473.1	472.5	472.0	472.5	473.1	472.8	472.5	472.8	473.1
16°	470.7	471.1	471.4	470.8	470.2	470.8	471.4	471.1	470.7	471.1	471.4
16.5°	468.9	469.3	469.6	469.0	468.4	469.0	469.6	469.3	468.9	469.3	469.6
17°	466.9	467.5	467.8	467.1	466.4	467.1	467.8	467.5	466.9	467.5	467.8
17.5°	465.0	465.5	465.9	465.2	464.4	465.2	465.9	465.5	465.0	465.5	465.9
18°	462.9	463.5	463.9	463.1	462.3	463.1	463.9	463.5	462.9	463.5	463.9
18.5°	460.8	461.5	461.9	461.1	460.2	461.1	461.9	461.5	460.8	461.5	461.9
19°	458.6	459.3	459.8	458.8	457.9	458.8	459.8	459.3	458.6	459.3	459.8
19.5°	456.3	457.1	457.6	456.6	455.7	456.6	457.6	457.1	456.3	457.1	457.6
20°	453.9	454.8	455.4	454.3	453.3	454.3	455.4	454.8	453.9	454.8	455.4
20.5°	451.5	452.5	453.1	451.9	450.8	451.9	453.1	452.5	451.5	452.5	453.1
21°	448.9	449.9	450.7	449.4	448.1	449.4	450.7	449.9	448.9	449.9	450.7



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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°	440.8	442.1	442.9	441.5	439.9	441.5	442.9	442.1	440.8	442.1	442.9
23°	438.0	439.3	440.2	438.7	437.0	438.7	440.2	439.3	438.0	439.3	440.2
23.5°	435.1	436.5	437.5	435.8	434.0	435.8	437.5	436.5	435.1	436.5	437.5
24°	432.0	433.6	434.6	432.8	431.0	432.8	434.6	433.6	432.0	433.6	434.6
24.5°	428.9	430.5	431.7	429.8	427.9	429.8	431.7	430.5	428.9	430.5	431.7
25°	425.7	427.4	428.6	426.6	424.6	426.6	428.6	427.4	425.7	427.4	428.6
25.5°	422.5	424.2	425.6	423.4	421.3	423.4	425.6	424.2	422.5	424.2	425.6
26°	419.2	421.0	422.4	420.2	417.9	420.2	422.4	421.0	419.2	421.0	422.4
26.5°	415.8	417.6	419.1	416.8	414.5	416.8	419.1	417.6	415.8	417.6	419.1
27°	412.2	414.3	415.8	413.4	411.0	413.4	415.8	414.3	412.2	414.3	415.8
27.5°	408.6	410.8	412.4	409.8	407.5	409.8	412.4	410.8	408.6	410.8	412.4
28°	405.0	407.2	408.9	406.3	403.7	406.3	408.9	407.2	405.0	407.2	408.9
28.5°	401.3	403.6	405.3	402.7	400.0	402.7	405.3	403.6	401.3	403.6	405.3
29°	397.5	400.0	401.6	399.0	396.2	399.0	401.6	400.0	397.5	400.0	401.6
29.5°	393.7	396.2	397.9	395.3	392.4	395.3	397.9	396.2	393.7	396.2	397.9
30°	389.7	392.4	394.0	391.5	388.5	391.5	394.0	392.4	389.7	392.4	394.0
30.5°	385.8	388.6	390.1	387.7	384.5	387.7	390.1	388.6	385.8	388.6	390.1
31°	381.7	384.7	386.1	383.8	380.4	383.8	386.1	384.7	381.7	384.7	386.1
31.5°	377.6	380.8	382.0	379.8	376.2	379.8	382.0	380.8	377.6	380.8	382.0
32°	373.4	376.7	377.9	375.8	370.9	375.8	377.9	376.7	373.4	376.7	377.9
32.5°	369.0	372.6	373.7	371.7	365.5	371.7	373.7	372.6	369.0	372.6	373.7
33°	361.9	368.5	369.4	367.6	359.6	367.6	369.4	368.5	361.9	368.5	369.4
33.5°	354.2	364.4	365.1	363.4	351.6	363.4	365.1	364.4	354.2	364.4	365.1
34°	344.7	360.2	360.7	358.3	342.6	358.3	360.7	360.2	344.7	360.2	360.7
34.5°	333.8	355.7	356.3	352.7	332.0	352.7	356.3	355.7	333.8	355.7	356.3
35°	322.6	348.9	351.9	346.9	320.5	346.9	351.9	348.9	322.6	348.9	351.9
35.5°	311.4	342.3	347.4	339.7	308.9	339.7	347.4	342.3	311.4	342.3	347.4
36°	299.8	333.4	342.9	331.7	297.4	331.7	342.9	333.4	299.8	333.4	342.9
36.5°	288.1	324.0	338.5	322.0	286.1	322.0	338.5	324.0	288.1	324.0	338.5
37°	276.2	313.3	334.1	311.7	274.5	311.7	334.1	313.3	276.2	313.3	334.1
37.5°	264.7	302.6	329.6	300.8	263.1	300.8	329.6	302.6	264.7	302.6	329.6
38°	252.7	291.6	325.2	289.7	251.6	289.7	325.2	291.6	252.7	291.6	325.2
38.5°	241.0	280.6	320.7	278.8	239.9	278.8	320.7	280.6	241.0	280.6	320.7
39°	229.4	269.4	316.4	268.0	228.1	268.0	316.4	269.4	229.4	269.4	316.4
39.5°	217.8	258.4	312.0	257.2	216.4	257.2	312.0	258.4	217.8	258.4	312.0
40°	206.0	247.1	307.6	246.2	204.7	246.2	307.6	247.1	206.0	247.1	307.6
40.5°	194.5	236.1	303.2	235.2	193.3	235.2	303.2	236.1	194.5	236.1	303.2
41°	183.3	225.1	298.7	224.3	182.0	224.3	298.7	225.1	183.3	225.1	298.7
41.5°	172.1	214.1	293.7	213.2	171.2	213.2	293.7	214.1	172.1	214.1	293.7
42°	160.9	203.1	288.1	202.2	160.3	202.2	288.1	203.1	160.9	203.1	288.1
42.5°	150.2	192.3	280.8	191.3	149.4	191.3	280.8	192.3	150.2	192.3	280.8
43°	139.4	181.4	272.5	180.6	138.9	180.6	272.5	181.4	139.4	181.4	272.5
43.5°	129.0	170.8	263.6	170.1	128.4	170.1	263.6	170.8	129.0	170.8	263.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	99.0	139.8	228.9	139.4	99.1	139.4	228.9	139.8	99.0	139.8	228.9
45.5°	90.0	129.8	215.9	129.5	90.0	129.5	215.9	129.8	90.0	129.8	215.9
46°	81.2	120.0	203.0	119.7	81.2	119.7	203.0	120.0	81.2	120.0	203.0
46.5°	72.5	110.4	190.3	110.1	72.3	110.1	190.3	110.4	72.5	110.4	190.3
47°	64.0	101.0	177.6	101.0	63.7	101.0	177.6	101.0	64.0	101.0	177.6
47.5°	55.8	92.1	165.5	92.2	55.9	92.2	165.5	92.1	55.8	92.1	165.5
48°	48.5	83.5	153.8	83.5	48.5	83.5	153.8	83.5	48.5	83.5	153.8
48.5°	41.9	75.1	142.4	75.0	41.8	75.0	142.4	75.1	41.9	75.1	142.4
49°	36.4	66.8	131.4	66.7	35.5	66.7	131.4	66.8	36.4	66.8	131.4
49.5°	31.2	58.8	120.7	58.8	30.6	58.8	120.7	58.8	31.2	58.8	120.7
50°	26.2	51.5	110.3	51.5	25.9	51.5	110.3	51.5	26.2	51.5	110.3
50.5°	21.6	45.0	100.3	44.4	21.4	44.4	100.3	45.0	21.6	45.0	100.3
51°	17.7	38.9	91.3	38.0	17.7	38.0	91.3	38.9	17.7	38.9	91.3
51.5°	14.2	33.6	82.5	32.8	13.9	32.8	82.5	33.6	14.2	33.6	82.5
52°	11.3	28.4	73.9	27.8	10.7	27.8	73.9	28.4	11.3	28.4	73.9
52.5°	8.5	23.6	65.5	23.0	7.6	23.0	65.5	23.6	8.5	23.6	65.5
53°	5.7	19.3	57.7	18.9	4.7	18.9	57.7	19.3	5.7	19.3	57.7
53.5°	3.8	15.4	50.6	14.8	2.8	14.8	50.6	15.4	3.8	15.4	50.6
54°	1.8	12.4	43.9	11.5	1.6	11.5	43.9	12.4	1.8	12.4	43.9
54.5°	1.1	9.5	38.2	8.5	1.2	8.5	38.2	9.5	1.1	9.5	38.2
55°	0.7	6.6	32.8	5.6	0.9	5.6	32.8	6.6	0.7	6.6	32.8
55.5°	0.3	4.2	27.8	3.8	0.6	3.8	27.8	4.2	0.3	4.2	27.8
56°	0.2	1.8	23.2	2.8	0.3	2.8	23.2	1.8	0.2	1.8	23.2
56.5°	0.2	0.9	18.8	1.7	0.2	1.7	18.8	0.9	0.2	0.9	18.8
57°	0.2	0.5	15.3	0.9	0.2	0.9	15.3	0.5	0.2	0.5	15.3
57.5°	0.2	0.4	12.3	0.4	0.2	0.4	12.3	0.4	0.2	0.4	12.3
58°	0.2	0.2	9.9	0.2	0.2	0.2	9.9	0.2	0.2	0.2	9.9
58.5°	0.2	0.2	7.7	0.2	0.2	0.2	7.7	0.2	0.2	0.2	7.7
59°	0.2	0.2	5.7	0.2	0.2	0.2	5.7	0.2	0.2	0.2	5.7
59.5°	0.2	0.2	4.2	0.2	0.2	0.2	4.2	0.2	0.2	0.2	4.2
60°	0.2	0.2	2.9	0.2	0.2	0.2	2.9	0.2	0.2	0.2	2.9
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	1.3	0.2	0.2	0.2	1.3	0.2	0.2	0.2	1.3
61.5°	0.2	0.2	0.8	0.2	0.2	0.2	0.8	0.2	0.2	0.2	0.8
62°	0.1	0.1	0.4	0.2	0.2	0.2	0.4	0.1	0.1	0.1	0.4
62.5°	0.1	0.1	0.3	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.3
63°	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2
63.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
64°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
64.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
65°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
65.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
66°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P775805

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMB-1000lm-2700K

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	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0
75°	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	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: P775805

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMB-1000lm-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775805

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMB-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	496.9	496.9	496.9	496.9	496.9	496.9
0.5°	496.8	496.9	496.8	496.9	496.9	497.1
1°	496.8	496.9	496.8	496.8	496.9	497.0
1.5°	496.7	496.7	496.7	496.7	496.7	496.9
2°	496.5	496.6	496.5	496.5	496.6	496.7
2.5°	496.3	496.4	496.3	496.3	496.4	496.5
3°	496.1	496.1	496.1	496.1	496.1	496.3
3.5°	495.8	495.8	495.8	495.8	495.9	496.0
4°	495.4	495.5	495.4	495.4	495.5	495.7
4.5°	495.0	495.1	495.0	495.1	495.1	495.3
5°	494.6	494.6	494.6	494.6	494.7	494.8
5.5°	494.1	494.1	494.1	494.1	494.2	494.3
6°	493.5	493.6	493.5	493.6	493.7	493.8
6.5°	493.0	493.0	493.0	493.0	493.1	493.2
7°	492.3	492.3	492.3	492.4	492.5	492.6
7.5°	491.6	491.6	491.6	491.7	491.8	491.9
8°	490.9	490.9	490.9	491.0	491.0	491.1
8.5°	490.1	490.0	490.1	490.2	490.2	490.3
9°	489.2	489.1	489.2	489.3	489.4	489.4
9.5°	488.3	488.2	488.3	488.4	488.5	488.5
10°	487.3	487.2	487.3	487.5	487.5	487.5
10.5°	486.3	486.2	486.3	486.5	486.5	486.5
11°	485.2	485.0	485.2	485.4	485.4	485.3
11.5°	484.0	483.8	484.0	484.3	484.3	484.2
12°	482.8	482.6	482.8	483.1	483.1	483.0
12.5°	481.5	481.3	481.5	481.9	481.8	481.7
13°	480.2	479.9	480.2	480.6	480.5	480.3
13.5°	478.8	478.5	478.8	479.2	479.1	478.9
14°	477.3	477.0	477.3	477.8	477.6	477.3
14.5°	475.8	475.4	475.8	476.3	476.1	475.8
15°	474.2	473.7	474.2	474.7	474.5	474.1
15.5°	472.5	472.0	472.5	473.1	472.8	472.5
16°	470.8	470.2	470.8	471.4	471.1	470.7
16.5°	469.0	468.4	469.0	469.6	469.3	468.9
17°	467.1	466.4	467.1	467.8	467.5	466.9
17.5°	465.2	464.4	465.2	465.9	465.5	465.0
18°	463.1	462.3	463.1	463.9	463.5	462.9
18.5°	461.1	460.2	461.1	461.9	461.5	460.8
19°	458.8	457.9	458.8	459.8	459.3	458.6
19.5°	456.6	455.7	456.6	457.6	457.1	456.3
20°	454.3	453.3	454.3	455.4	454.8	453.9
20.5°	451.9	450.8	451.9	453.1	452.5	451.5
21°	449.4	448.1	449.4	450.7	449.9	448.9



TEST NUMBER: P775805

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMB-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	441.5	439.9	441.5	442.9	442.1	440.8
23°	438.7	437.0	438.7	440.2	439.3	438.0
23.5°	435.8	434.0	435.8	437.5	436.5	435.1
24°	432.8	431.0	432.8	434.6	433.6	432.0
24.5°	429.8	427.9	429.8	431.7	430.5	428.9
25°	426.6	424.6	426.6	428.6	427.4	425.7
25.5°	423.4	421.3	423.4	425.6	424.2	422.5
26°	420.2	417.9	420.2	422.4	421.0	419.2
26.5°	416.8	414.5	416.8	419.1	417.6	415.8
27°	413.4	411.0	413.4	415.8	414.3	412.2
27.5°	409.8	407.5	409.8	412.4	410.8	408.6
28°	406.3	403.7	406.3	408.9	407.2	405.0
28.5°	402.7	400.0	402.7	405.3	403.6	401.3
29°	399.0	396.2	399.0	401.6	400.0	397.5
29.5°	395.3	392.4	395.3	397.9	396.2	393.7
30°	391.5	388.5	391.5	394.0	392.4	389.7
30.5°	387.7	384.5	387.7	390.1	388.6	385.8
31°	383.8	380.4	383.8	386.1	384.7	381.7
31.5°	379.8	376.2	379.8	382.0	380.8	377.6
32°	375.8	370.9	375.8	377.9	376.7	373.4
32.5°	371.7	365.5	371.7	373.7	372.6	369.0
33°	367.6	359.6	367.6	369.4	368.5	361.9
33.5°	363.4	351.6	363.4	365.1	364.4	354.2
34°	358.3	342.6	358.3	360.7	360.2	344.7
34.5°	352.7	332.0	352.7	356.3	355.7	333.8
35°	346.9	320.5	346.9	351.9	348.9	322.6
35.5°	339.7	308.9	339.7	347.4	342.3	311.4
36°	331.7	297.4	331.7	342.9	333.4	299.8
36.5°	322.0	286.1	322.0	338.5	324.0	288.1
37°	311.7	274.5	311.7	334.1	313.3	276.2
37.5°	300.8	263.1	300.8	329.6	302.6	264.7
38°	289.7	251.6	289.7	325.2	291.6	252.7
38.5°	278.8	239.9	278.8	320.7	280.6	241.0
39°	268.0	228.1	268.0	316.4	269.4	229.4
39.5°	257.2	216.4	257.2	312.0	258.4	217.8
40°	246.2	204.7	246.2	307.6	247.1	206.0
40.5°	235.2	193.3	235.2	303.2	236.1	194.5
41°	224.3	182.0	224.3	298.7	225.1	183.3
41.5°	213.2	171.2	213.2	293.7	214.1	172.1
42°	202.2	160.3	202.2	288.1	203.1	160.9
42.5°	191.3	149.4	191.3	280.8	192.3	150.2
43°	180.6	138.9	180.6	272.5	181.4	139.4
43.5°	170.1	128.4	170.1	263.6	170.8	129.0



TEST NUMBER: P775805

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMB-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	139.4	99.1	139.4	228.9	139.8	99.0
45.5°	129.5	90.0	129.5	215.9	129.8	90.0
46°	119.7	81.2	119.7	203.0	120.0	81.2
46.5°	110.1	72.3	110.1	190.3	110.4	72.5
47°	101.0	63.7	101.0	177.6	101.0	64.0
47.5°	92.2	55.9	92.2	165.5	92.1	55.8
48°	83.5	48.5	83.5	153.8	83.5	48.5
48.5°	75.0	41.8	75.0	142.4	75.1	41.9
49°	66.7	35.5	66.7	131.4	66.8	36.4
49.5°	58.8	30.6	58.8	120.7	58.8	31.2
50°	51.5	25.9	51.5	110.3	51.5	26.2
50.5°	44.4	21.4	44.4	100.3	45.0	21.6
51°	38.0	17.7	38.0	91.3	38.9	17.7
51.5°	32.8	13.9	32.8	82.5	33.6	14.2
52°	27.8	10.7	27.8	73.9	28.4	11.3
52.5°	23.0	7.6	23.0	65.5	23.6	8.5
53°	18.9	4.7	18.9	57.7	19.3	5.7
53.5°	14.8	2.8	14.8	50.6	15.4	3.8
54°	11.5	1.6	11.5	43.9	12.4	1.8
54.5°	8.5	1.2	8.5	38.2	9.5	1.1
55°	5.6	0.9	5.6	32.8	6.6	0.7
55.5°	3.8	0.6	3.8	27.8	4.2	0.3
56°	2.8	0.3	2.8	23.2	1.8	0.2
56.5°	1.7	0.2	1.7	18.8	0.9	0.2
57°	0.9	0.2	0.9	15.3	0.5	0.2
57.5°	0.4	0.2	0.4	12.3	0.4	0.2
58°	0.2	0.2	0.2	9.9	0.2	0.2
58.5°	0.2	0.2	0.2	7.7	0.2	0.2
59°	0.2	0.2	0.2	5.7	0.2	0.2
59.5°	0.2	0.2	0.2	4.2	0.2	0.2
60°	0.2	0.2	0.2	2.9	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	1.3	0.2	0.2
61.5°	0.2	0.2	0.2	0.8	0.2	0.2
62°	0.2	0.2	0.2	0.4	0.1	0.1
62.5°	0.1	0.1	0.1	0.3	0.1	0.1
63°	0.1	0.1	0.1	0.2	0.1	0.1
63.5°	0.1	0.1	0.1	0.1	0.1	0.1
64°	0.1	0.1	0.1	0.1	0.1	0.1
64.5°	0.1	0.1	0.1	0.1	0.1	0.1
65°	0.1	0.1	0.1	0.1	0.1	0.1
65.5°	0.1	0.1	0.1	0.1	0.1	0.1
66°	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P775805

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMB-1000lm-2700K

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	0.0	0.1	0.1
75°	0.1	0.1	0.1	0.0	0.0	0.0
75.5°	0.1	0.1	0.1	0.0	0.0	0.0
76°	0.0	0.1	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0
78°	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
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: P775805

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMB-1000lm-2700K

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°	446.3	447.4	448.1	446.8	445.4	446.8	448.1	447.4	446.3	447.4	448.1
22°	443.6	444.8	445.5	444.2	442.7	444.2	445.5	444.8	443.6	444.8	445.5



44°	118.7	160.2	252.8	159.7	118.2	159.7	252.8	160.2	118.7	160.2	252.8
44.5°	108.8	149.9	241.0	149.5	108.4	149.5	241.0	149.9	108.8	149.9	241.0



66.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
67°	0.1	0.1	0.1	0.1	0.1	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°	446.8	445.4	446.8	448.1	447.4	446.3
22°	444.2	442.7	444.2	445.5	444.8	443.6



44°	159.7	118.2	159.7	252.8	160.2	118.7
44.5°	149.5	108.4	149.5	241.0	149.9	108.8

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66.5°	0.1	0.1	0.1	0.1	0.1	0.1
67°	0.1	0.1	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)