

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: P775880

Luminaire Tested: HCDJBL510CSD-HCD8TRMB-1000lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2310613A001)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD8TRMB-1000lm-2700K
Description: 8 INCH ROUND MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

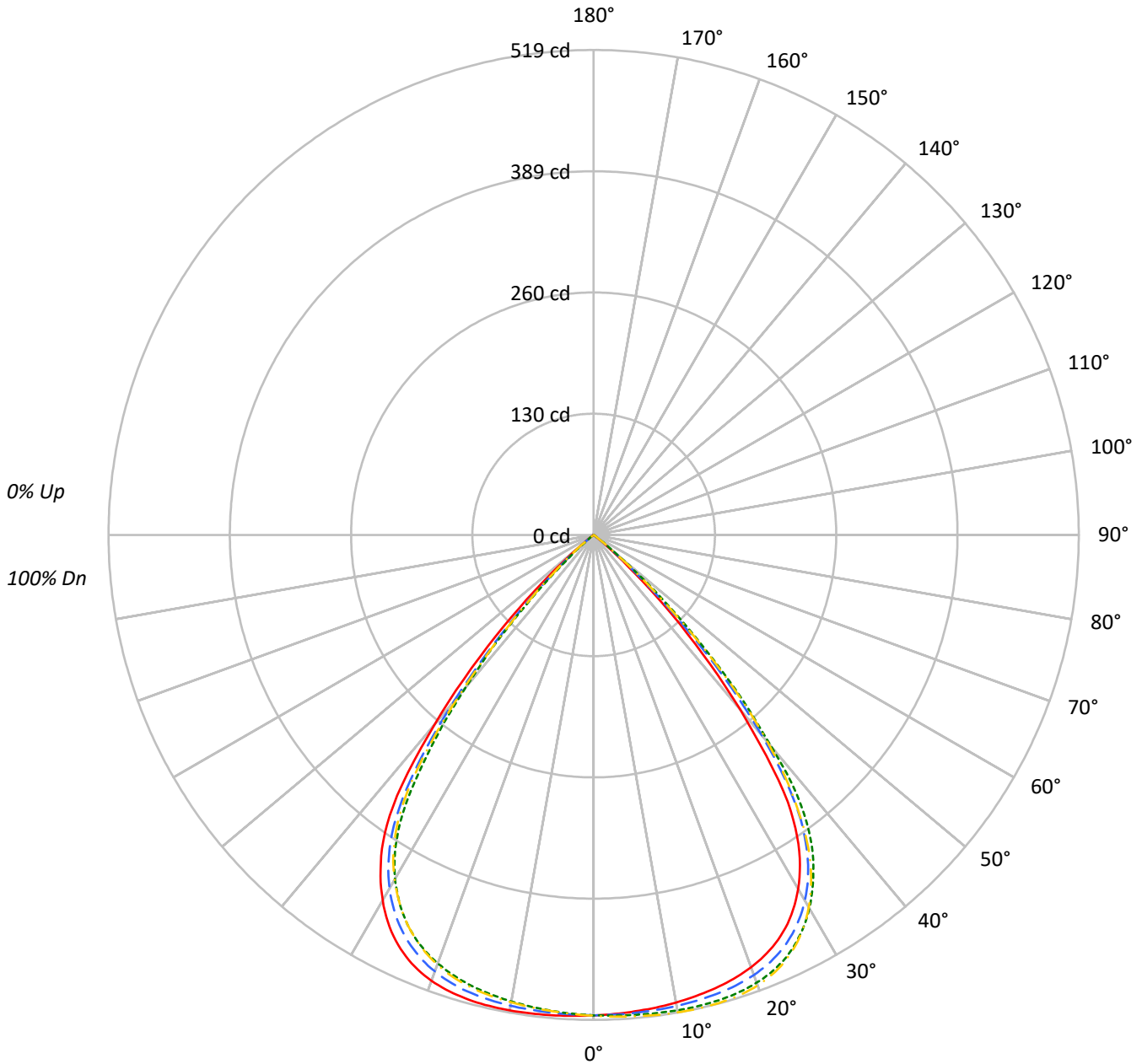
Lumens per Lamp: N/A
Luminaire Lumens: 738.0 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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	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	111	108	106	103	104	102	100	100	99	97	97	95	94	93					93			
2	107	102	97	94	105	100	96	92	97	93	90	94	91	89	91	89	87	85					85			
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78					78			
4	95	87	81	76	93	85	80	76	83	78	75	81	77	74	79	76	73	71					71			
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65					65			
6	84	74	68	63	83	74	67	63	72	66	62	70	66	62	69	65	61	60					60			
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55					55			
8	75	64	58	53	73	64	57	53	63	57	53	61	56	53	60	56	52	51					51			
9	71	60	53	49	69	59	53	49	58	53	49	57	52	49	57	52	48	47					47			
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15699	15699	15699	15699
5°	15685	15802	15811	15670
10°	15752	16015	16018	15718
15°	15876	16297	16278	15807
20°	15998	16570	16495	15852
25°	15947	16648	16466	15674
30°	15420	16266	15913	14983
35°	13872	15169	14513	13011
40°	9709	11789	10530	8453
45°	4624	6593	5384	3493
50°	940	1767	1002	446
55°	43	64	37	27
60°	12	12	12	12
65°	7	7	7	7
70°	9	9	9	9
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6593 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	6.6
10°-20°	143.8	19.5
20°-30°	220.2	29.8
30°-40°	229.2	31.1
40°-50°	92.5	12.5
50°-60°	3.2	0.4
60°-70°	0.1	0.0
70°-80°	0.0	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°	413.0	56.0
0°-40°	642.2	87.0
0°-60°	737.9	100.0
0°-90°	738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	738.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	514	514	514	514	514	
5°	512	516	516	511	512	49
15°	502	516	515	500	502	142
25°	473	494	489	465	473	217
35°	372	407	389	349	372	224
45°	107	153	125	81	107	86
55°	1	1	1	0	1	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°	514.2	514.2	514.2	514.2	514.2	514.2	514.2	514.2	514.2	514.2	514.2
0.5°	514.0	513.8	514.0	514.1	514.2	514.7	514.9	514.9	514.4	514.1	514.0
1°	513.8	513.8	514.0	514.2	514.4	515.0	515.2	515.1	514.6	514.2	513.9
1.5°	513.6	513.6	514.0	514.3	514.6	515.2	515.5	515.4	514.8	514.2	513.9
2°	513.4	513.5	513.9	514.4	514.8	515.4	515.7	515.6	514.9	514.3	513.9
2.5°	513.2	513.3	513.9	514.5	514.9	515.6	516.0	515.8	515.1	514.4	513.8
3°	512.9	513.2	513.8	514.5	515.0	515.9	516.2	516.1	515.3	514.5	513.7
3.5°	512.7	513.0	513.8	514.5	515.2	516.0	516.4	516.3	515.5	514.5	513.6
4°	512.4	512.8	513.6	514.6	515.3	516.2	516.7	516.5	515.7	514.5	513.6
4.5°	512.1	512.6	513.5	514.6	515.4	516.5	516.9	516.7	515.8	514.6	513.4
5°	511.8	512.4	513.4	514.6	515.6	516.7	517.1	517.0	515.9	514.6	513.3
5.5°	511.5	512.1	513.3	514.7	515.7	516.9	517.4	517.2	516.1	514.6	513.2
6°	511.2	511.9	513.2	514.7	515.8	517.1	517.6	517.3	516.2	514.7	513.1
6.5°	510.9	511.6	513.0	514.7	516.0	517.3	517.8	517.5	516.3	514.7	513.0
7°	510.6	511.3	512.9	514.7	516.1	517.4	518.0	517.7	516.4	514.6	512.8
7.5°	510.2	511.0	512.8	514.8	516.2	517.6	518.2	517.9	516.5	514.6	512.7
8°	509.8	510.7	512.6	514.7	516.3	517.8	518.4	518.0	516.6	514.7	512.5
8.5°	509.4	510.3	512.4	514.8	516.4	517.9	518.5	518.2	516.6	514.6	512.3
9°	509.0	510.0	512.2	514.7	516.5	518.0	518.7	518.3	516.7	514.5	512.2
9.5°	508.5	509.6	512.0	514.7	516.5	518.1	518.8	518.4	516.7	514.5	511.9
10°	508.1	509.2	511.8	514.6	516.6	518.2	518.9	518.5	516.7	514.4	511.7
10.5°	507.6	508.8	511.6	514.6	516.6	518.3	519.0	518.5	516.7	514.3	511.4
11°	507.1	508.4	511.3	514.5	516.6	518.4	519.1	518.6	516.6	514.1	511.1
11.5°	506.6	507.9	511.0	514.4	516.6	518.4	519.1	518.6	516.6	513.9	510.8
12°	506.1	507.4	510.8	514.3	516.6	518.4	519.2	518.6	516.5	513.7	510.4
12.5°	505.5	507.0	510.5	514.2	516.5	518.4	519.2	518.5	516.3	513.5	510.1
13°	504.9	506.4	510.1	514.0	516.4	518.4	519.1	518.5	516.2	513.2	509.6
13.5°	504.3	505.9	509.8	513.8	516.2	518.4	519.0	518.4	516.0	512.8	509.2
14°	503.6	505.4	509.4	513.6	516.0	518.2	518.9	518.3	515.7	512.5	508.6
14.5°	503.0	504.8	509.0	513.3	515.9	518.1	518.8	518.1	515.4	512.1	508.1
15°	502.3	504.2	508.5	513.0	515.6	517.9	518.6	517.9	515.0	511.6	507.5
15.5°	501.5	503.6	508.0	512.6	515.4	517.7	518.3	517.6	514.6	511.1	506.8
16°	500.7	502.9	507.5	512.2	515.0	517.4	518.0	517.2	514.1	510.5	506.1
16.5°	499.9	502.2	506.9	511.8	514.6	517.0	517.7	516.8	513.6	509.8	505.3
17°	499.0	501.4	506.3	511.2	514.2	516.6	517.2	516.2	513.0	509.1	504.4
17.5°	498.0	500.6	505.6	510.6	513.7	516.1	516.7	515.7	512.4	508.3	503.4
18°	497.0	499.8	504.8	509.9	513.1	515.5	516.2	515.0	511.6	507.4	502.3
18.5°	496.0	498.8	504.1	509.2	512.5	514.8	515.5	514.2	510.8	506.4	501.2
19°	494.8	497.9	503.2	508.4	511.7	514.0	514.8	513.4	509.8	505.3	500.0
19.5°	493.6	496.8	502.2	507.4	510.9	513.2	514.0	512.4	508.8	504.1	498.6
20°	492.4	495.7	501.2	506.4	510.0	512.3	513.0	511.4	507.7	502.8	497.1
20.5°	491.0	494.5	500.0	505.3	509.0	511.2	512.0	510.2	506.4	501.4	495.5
21°	489.5	493.2	498.8	504.1	507.8	510.0	510.8	509.0	505.1	499.8	493.9



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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°	484.5	488.8	494.4	499.8	503.9	505.7	506.4	504.3	500.1	494.5	488.0
23°	482.6	487.1	492.7	498.1	502.3	504.0	504.7	502.5	498.2	492.4	485.8
23.5°	480.5	485.3	490.9	496.2	500.4	502.1	502.8	500.4	496.1	490.1	483.5
24°	478.3	483.3	488.9	494.3	498.7	500.1	500.8	498.3	493.9	487.8	481.0
24.5°	476.0	481.3	486.8	492.1	496.7	497.9	498.4	496.0	491.4	485.2	478.3
25°	473.4	479.0	484.6	489.8	494.2	495.6	496.1	493.5	488.8	482.5	475.5
25.5°	470.8	476.6	482.1	487.4	491.9	493.0	493.4	490.8	486.0	479.6	472.6
26°	467.9	473.9	479.5	484.8	489.4	490.3	490.6	487.9	483.0	476.5	469.4
26.5°	464.9	471.2	476.8	482.0	486.6	487.2	487.5	484.8	479.8	473.2	466.0
27°	461.6	468.1	473.8	479.1	483.4	484.1	484.2	481.5	476.4	469.8	462.5
27.5°	458.1	465.0	470.6	476.0	480.4	480.8	480.8	478.0	472.8	466.1	458.6
28°	454.4	461.5	467.2	472.6	477.0	477.1	477.2	474.2	469.0	462.2	454.7
28.5°	450.4	457.8	463.7	469.2	473.4	473.3	473.2	470.2	464.9	458.0	450.5
29°	446.2	453.9	459.9	465.5	469.6	469.3	469.2	466.0	460.7	453.8	446.1
29.5°	442.0	449.8	456.0	461.6	465.7	465.0	464.8	461.6	456.2	449.2	441.5
30°	437.4	445.4	451.7	457.6	461.4	460.5	460.2	457.0	451.4	444.6	436.7
30.5°	432.7	440.8	447.3	453.3	457.1	455.8	455.4	452.0	446.5	439.7	431.7
31°	427.5	435.8	442.7	448.6	452.3	450.6	450.1	446.8	441.4	434.5	426.3
31.5°	422.1	430.7	437.9	443.9	447.4	445.5	444.9	441.4	436.1	429.1	420.6
32°	416.4	425.1	432.6	439.1	442.4	440.1	439.0	435.7	430.4	423.5	414.5
32.5°	410.3	419.1	427.0	433.8	437.3	434.2	432.9	429.6	424.4	417.6	407.8
33°	403.6	412.8	421.1	428.4	431.6	428.1	426.6	423.1	418.2	411.3	401.0
33.5°	396.7	405.9	414.7	422.7	425.9	421.8	419.8	416.4	411.8	404.7	393.7
34°	389.0	398.9	408.3	416.7	419.9	415.2	412.7	409.2	404.9	397.6	385.9
34.5°	380.9	391.2	401.1	410.4	413.6	408.0	405.0	401.6	397.4	389.8	377.4
35°	372.2	382.8	393.7	403.5	407.0	400.3	396.7	393.4	389.4	381.1	367.6
35.5°	363.2	373.7	385.5	396.1	399.7	391.7	388.0	384.5	380.6	371.4	357.3
36°	353.3	364.0	377.0	388.0	392.0	382.9	378.8	375.0	371.0	361.2	346.3
36.5°	341.7	353.5	367.4	378.8	383.5	373.0	368.9	365.1	360.6	349.9	334.1
37°	328.4	341.3	356.9	369.3	373.9	363.2	358.9	354.7	349.3	337.7	321.2
37.5°	314.0	327.7	345.6	358.7	363.9	352.3	348.5	344.0	336.7	323.9	307.4
38°	299.8	313.8	333.6	348.2	353.3	341.1	338.0	332.7	322.8	309.1	293.6
38.5°	285.2	300.3	320.8	335.9	341.7	328.9	327.0	321.0	308.2	294.1	279.1
39°	271.2	287.5	307.5	323.7	327.7	316.4	315.3	308.7	293.3	278.4	264.0
39.5°	257.4	274.4	293.5	310.0	311.7	303.0	302.3	295.7	278.4	263.0	248.6
40°	243.6	261.6	279.1	296.2	295.8	289.1	289.5	281.9	264.2	247.8	233.3
40.5°	229.3	247.5	264.8	280.8	280.6	274.4	277.0	268.0	250.4	232.8	217.0
41°	214.8	232.8	250.4	265.2	266.7	260.0	263.2	253.8	236.4	218.2	201.2
41.5°	200.7	217.6	235.6	249.5	252.9	245.0	249.1	239.0	222.2	203.3	185.7
42°	186.4	203.2	221.0	233.5	238.8	231.0	234.6	224.3	207.5	188.5	171.6
42.5°	172.7	188.9	206.3	217.4	224.6	216.9	219.7	209.7	193.2	173.8	156.4
43°	159.5	174.8	191.3	202.1	209.3	202.9	204.2	194.6	178.6	159.0	142.6
43.5°	146.0	161.0	176.0	186.4	194.4	188.5	189.2	179.9	164.9	145.0	128.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	107.1	119.3	130.4	143.5	152.7	145.8	143.6	137.7	124.7	108.2	92.8
45.5°	94.5	106.0	116.4	129.9	139.2	132.1	129.7	123.7	112.0	96.8	81.3
46°	83.0	93.3	103.3	117.5	125.9	118.7	115.5	110.4	100.0	85.5	69.8
46.5°	71.7	81.1	90.9	105.2	112.3	106.5	103.7	98.3	88.0	74.2	58.3
47°	60.9	69.6	79.2	93.4	100.7	94.2	91.9	86.3	76.0	62.7	49.4
47.5°	50.9	58.3	68.6	82.0	89.1	81.9	80.1	74.3	63.9	52.9	41.3
48°	42.1	48.3	58.5	70.8	77.5	69.6	68.3	62.1	53.6	43.9	34.1
48.5°	34.2	39.3	49.5	60.4	65.9	57.2	56.4	51.9	44.1	35.7	27.6
49°	29.4	32.0	41.5	51.0	55.8	46.7	47.2	42.2	35.4	28.3	22.1
49.5°	24.6	27.0	34.0	42.5	46.1	37.8	38.2	33.8	27.8	21.9	17.2
50°	19.8	22.0	29.0	34.7	37.2	30.0	30.0	26.4	21.1	18.2	14.2
50.5°	14.9	17.0	24.1	29.4	29.1	23.0	23.0	19.8	17.4	14.4	11.3
51°	10.2	12.1	19.2	24.2	22.0	19.0	18.9	16.3	13.7	10.7	8.3
51.5°	7.4	9.1	14.3	19.0	18.2	14.9	14.9	12.8	10.0	6.9	5.3
52°	5.1	6.5	9.4	13.8	14.4	10.9	10.8	9.3	6.3	3.1	2.4
52.5°	3.2	4.3	6.4	8.6	10.5	6.9	6.7	5.8	2.7	2.0	1.6
53°	2.7	3.7	4.0	5.5	6.7	3.0	2.7	2.2	1.8	1.5	1.3
53.5°	2.1	3.0	3.3	3.2	3.0	1.9	1.8	1.6	1.4	1.2	1.0
54°	1.5	2.3	2.5	2.6	1.9	1.5	1.4	1.3	1.1	0.9	0.8
54.5°	1.0	1.6	1.8	2.0	1.5	1.2	1.1	1.0	0.8	0.7	0.6
55°	0.8	0.9	1.1	1.5	1.2	0.9	0.9	0.8	0.7	0.6	0.5
55.5°	0.6	0.7	0.8	0.9	0.9	0.7	0.7	0.6	0.5	0.5	0.4
56°	0.5	0.6	0.7	0.7	0.7	0.5	0.5	0.5	0.4	0.4	0.4
56.5°	0.4	0.5	0.5	0.6	0.5	0.4	0.4	0.4	0.4	0.3	0.3
57°	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3
57.5°	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3
58°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2
58.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2
59°	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
59.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
60.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
61°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
61.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
62°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
62.5°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
63°	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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: P775880

CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-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	0.0	0.0	0.0	0.0
71.5°	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
72°	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	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: P775880
CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-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: P775880

CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	514.2	514.2	514.2	514.2	514.2	514.2
0.5°	513.9	513.8	514.2	514.4	514.4	514.0
1°	513.8	513.6	513.9	514.1	514.1	513.8
1.5°	513.6	513.3	513.6	513.8	513.8	513.6
2°	513.4	513.1	513.3	513.5	513.5	513.4
2.5°	513.3	512.8	513.1	513.2	513.3	513.2
3°	513.1	512.6	512.8	512.9	512.9	512.9
3.5°	512.8	512.3	512.4	512.6	512.6	512.7
4°	512.7	512.0	512.1	512.3	512.3	512.4
4.5°	512.4	511.6	511.8	512.0	512.0	512.1
5°	512.2	511.3	511.4	511.6	511.8	511.8
5.5°	511.9	511.0	511.1	511.3	511.4	511.5
6°	511.7	510.6	510.7	511.0	511.1	511.2
6.5°	511.4	510.2	510.4	510.6	510.8	510.9
7°	511.0	509.8	510.0	510.3	510.5	510.6
7.5°	510.7	509.4	509.6	509.9	510.1	510.2
8°	510.4	509.0	509.2	509.6	509.8	509.8
8.5°	510.0	508.5	508.7	509.2	509.4	509.4
9°	509.6	508.0	508.3	508.8	509.0	509.0
9.5°	509.3	507.5	507.8	508.4	508.6	508.5
10°	508.8	507.0	507.3	508.0	508.2	508.1
10.5°	508.4	506.4	506.8	507.5	507.7	507.6
11°	507.9	505.9	506.3	507.1	507.3	507.1
11.5°	507.4	505.2	505.7	506.6	506.8	506.6
12°	506.9	504.6	505.1	506.1	506.3	506.1
12.5°	506.3	504.0	504.4	505.5	505.8	505.5
13°	505.7	503.3	503.7	504.9	505.2	504.9
13.5°	505.0	502.6	503.1	504.3	504.5	504.3
14°	504.4	501.8	502.3	503.6	503.9	503.6
14.5°	503.6	501.0	501.5	502.8	503.2	503.0
15°	502.9	500.1	500.7	502.0	502.4	502.3
15.5°	502.1	499.2	499.7	501.2	501.6	501.5
16°	501.1	498.2	498.8	500.2	500.7	500.7
16.5°	500.2	497.2	497.8	499.2	499.8	499.9
17°	499.2	496.1	496.6	498.1	498.8	499.0
17.5°	498.1	494.9	495.5	496.9	497.7	498.0
18°	496.9	493.6	494.2	495.6	496.5	497.0
18.5°	495.6	492.4	492.9	494.2	495.2	496.0
19°	494.3	491.0	491.5	492.7	493.9	494.8
19.5°	492.9	489.4	490.0	491.1	492.4	493.6
20°	491.3	487.9	488.4	489.4	490.8	492.4
20.5°	489.7	486.2	486.7	487.6	489.1	491.0
21°	487.9	484.4	484.9	485.6	487.4	489.5

TEST NUMBER: P775880

CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	482.0	478.3	478.7	479.0	481.2	484.5
23°	479.8	476.0	476.4	476.5	478.9	482.6
23.5°	477.3	473.6	473.9	474.0	476.4	480.5
24°	474.8	471.0	471.4	471.3	473.8	478.3
24.5°	472.1	468.2	468.6	468.4	471.1	476.0
25°	469.2	465.3	465.7	465.3	468.2	473.4
25.5°	466.2	462.2	462.5	462.2	465.1	470.8
26°	462.9	459.0	459.2	458.8	462.0	467.9
26.5°	459.5	455.5	455.8	455.4	458.6	464.9
27°	455.9	451.6	452.1	451.6	455.1	461.6
27.5°	451.9	447.7	448.3	447.8	451.2	458.1
28°	447.8	443.6	444.3	443.6	447.3	454.4
28.5°	443.5	439.2	440.1	439.6	443.1	450.4
29°	439.1	434.7	435.7	435.1	438.8	446.2
29.5°	434.4	429.9	431.2	430.7	434.5	442.0
30°	429.4	425.0	426.3	425.9	429.9	437.4
30.5°	424.0	419.5	421.4	421.2	425.1	432.7
31°	418.1	413.9	416.0	415.9	420.0	427.5
31.5°	411.9	407.6	410.3	410.5	414.5	422.1
32°	405.3	401.1	404.0	404.3	408.5	416.4
32.5°	398.1	393.9	397.5	397.9	402.1	410.3
33°	390.8	386.4	390.3	390.9	395.3	403.6
33.5°	382.6	378.3	383.2	384.0	388.5	396.7
34°	374.2	369.3	375.5	376.5	381.1	389.0
34.5°	365.0	359.7	367.2	368.2	373.1	380.9
35°	354.9	349.1	358.2	359.1	364.3	372.2
35.5°	343.5	337.4	347.9	349.3	354.7	363.2
36°	331.5	324.4	336.4	338.2	344.2	353.3
36.5°	317.9	310.7	323.4	326.0	332.3	341.7
37°	304.3	297.5	309.3	312.6	319.0	328.4
37.5°	290.0	284.7	294.1	298.8	304.7	314.0
38°	276.5	271.5	278.7	284.0	290.2	299.8
38.5°	262.6	258.4	264.1	269.2	275.5	285.2
39°	249.2	243.1	250.0	253.4	260.6	271.2
39.5°	235.4	227.7	236.5	238.3	245.5	257.4
40°	221.2	212.1	222.4	223.1	230.0	243.6
40.5°	206.4	198.6	207.7	207.8	215.3	229.3
41°	191.1	185.1	193.1	192.5	201.0	214.8
41.5°	175.8	172.1	178.9	177.3	186.6	200.7
42°	161.1	158.4	165.1	163.0	172.4	186.4
42.5°	146.3	144.6	151.7	149.4	157.9	172.7
43°	131.8	131.0	138.7	136.2	144.1	159.5
43.5°	117.9	117.5	125.8	123.5	130.7	146.0



TEST NUMBER: P775880

CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	82.0	80.9	89.0	88.7	94.5	107.1
45.5°	70.0	69.4	77.8	78.7	83.6	94.5
46°	57.9	57.9	67.5	69.3	73.6	83.0
46.5°	48.6	47.8	57.9	60.3	64.2	71.7
47°	40.5	38.5	49.0	52.1	55.4	60.9
47.5°	33.2	33.2	40.8	44.4	47.4	50.9
48°	27.0	28.0	33.5	37.7	40.1	42.1
48.5°	21.5	22.8	28.4	32.5	33.4	34.2
49°	17.0	17.6	23.4	27.4	28.4	29.4
49.5°	14.1	12.4	18.5	22.4	23.4	24.6
50°	11.3	9.4	13.5	17.3	18.3	19.8
50.5°	8.5	6.9	10.0	12.2	13.4	14.9
51°	5.7	4.8	7.3	8.9	9.8	10.2
51.5°	2.9	3.0	4.9	6.0	6.8	7.4
52°	1.9	2.4	3.1	3.7	4.4	5.1
52.5°	1.4	1.9	2.5	3.0	3.7	3.2
53°	1.2	1.5	2.0	2.3	3.0	2.7
53.5°	0.9	1.0	1.5	1.7	2.3	2.1
54°	0.7	0.8	1.0	1.0	1.6	1.5
54.5°	0.6	0.6	0.8	0.8	0.9	1.0
55°	0.5	0.5	0.6	0.6	0.7	0.8
55.5°	0.4	0.4	0.5	0.5	0.6	0.6
56°	0.4	0.4	0.4	0.4	0.5	0.5
56.5°	0.3	0.3	0.4	0.4	0.4	0.4
57°	0.3	0.3	0.3	0.3	0.3	0.4
57.5°	0.3	0.3	0.3	0.3	0.3	0.3
58°	0.2	0.2	0.3	0.3	0.3	0.3
58.5°	0.2	0.2	0.2	0.3	0.3	0.3
59°	0.2	0.2	0.2	0.2	0.2	0.2
59.5°	0.2	0.2	0.2	0.2	0.2	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2
60.5°	0.2	0.2	0.2	0.2	0.2	0.2
61°	0.2	0.2	0.2	0.2	0.2	0.2
61.5°	0.2	0.2	0.2	0.2	0.2	0.2
62°	0.1	0.2	0.2	0.2	0.2	0.2
62.5°	0.1	0.1	0.2	0.2	0.2	0.2
63°	0.1	0.1	0.1	0.1	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: P775880

CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-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°	0.0	0.1	0.1	0.1	0.1	0.1
72°	0.0	0.0	0.1	0.1	0.1	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0
73°	0.0	0.0	0.0	0.0	0.0	0.0
73.5°	0.0	0.0	0.0	0.0	0.0	0.0
74°	0.0	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0
76°	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
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: P775880

CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-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°	488.0	491.9	497.5	502.8	506.6	508.7	509.5	507.5	503.6	498.2	492.1
22°	486.3	490.4	496.0	501.3	505.4	507.3	508.0	506.0	501.9	496.4	490.2



44°	132.7	147.3	160.4	171.7	179.9	174.2	173.4	165.9	151.4	131.8	115.7
44.5°	119.7	133.3	145.0	157.1	165.9	159.9	158.9	151.7	138.2	119.5	104.2



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°	486.1	482.5	483.0	483.6	485.4	488.0
22°	484.1	480.5	480.9	481.4	483.4	486.3



44°	105.9	104.7	113.3	111.0	117.9	132.7
44.5°	94.0	92.7	100.8	99.5	105.9	119.7

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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)