

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: P775759

Luminaire Tested: HCDJBS510CSD-HCD62TRMB-1000lm-5000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B058)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD62TRMB-1000lm-5000K
Description: 6 INCH ROUND NARROW MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 743.5 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.11
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

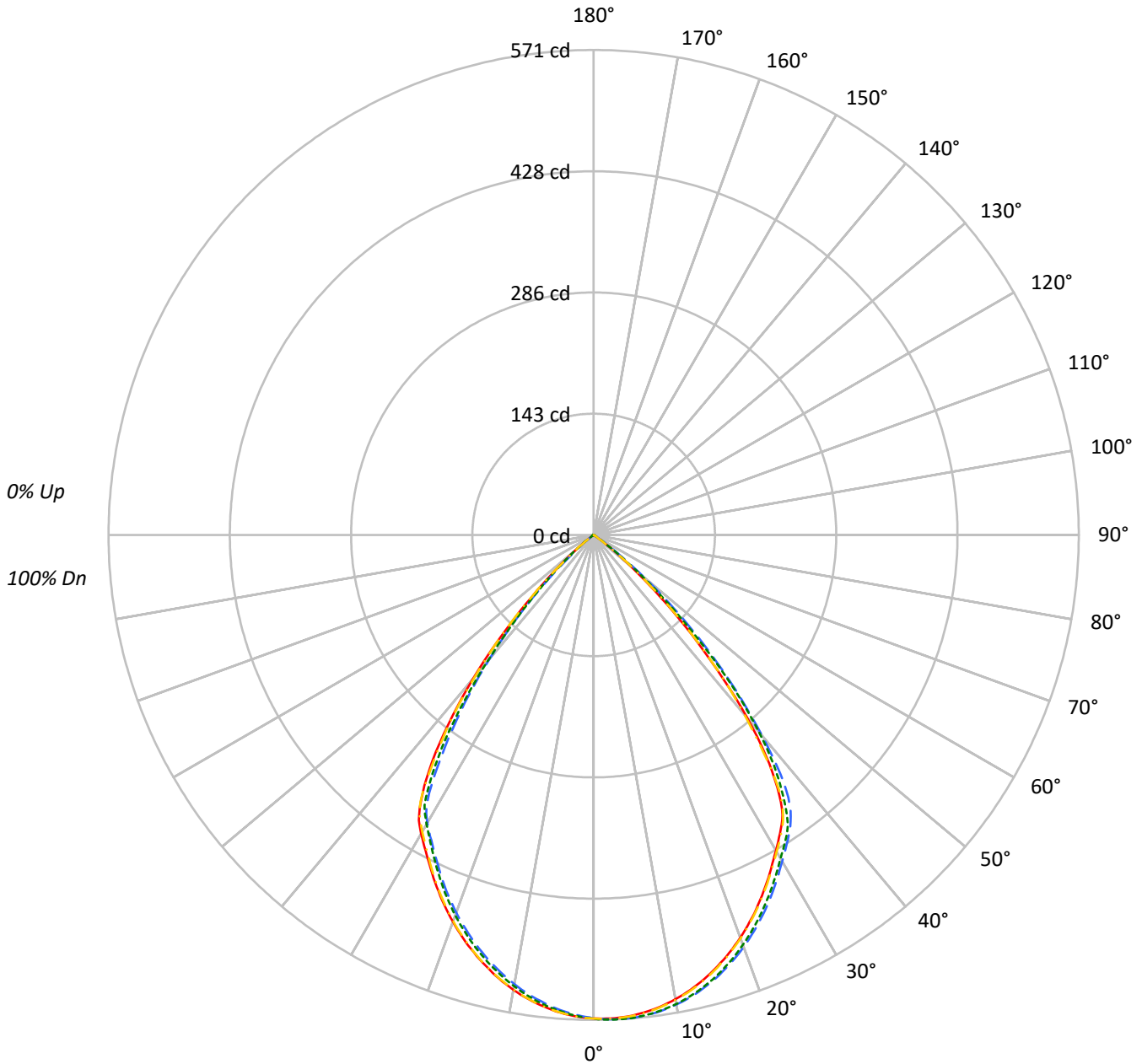
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85	85	85	85
3	101	94	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77	77	77	77
4	95	86	80	76	93	85	80	75	83	78	74	81	77	73	79	75	72	71	71	71	71
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65	65	65	65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	64	61	60	60	60	60
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55	55	55	55
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51	51	51	51
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47	47	47	47
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	44	44	44	44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	31215	31215	31215	31215
5°	31213	31378	30894	30784
10°	30895	31217	30271	30032
15°	30295	30738	29382	29024
20°	29438	29968	28277	27798
25°	28350	28961	26965	26324
30°	27156	27852	25706	24896
35°	25698	26415	22560	21302
40°	20109	21641	15787	13990
45°	11823	13653	7970	6993
50°	4657	5629	2328	2337
55°	679	889	191	239
60°	153	164	143	121
65°	117	117	91	78
70°	80	80	64	64
75°	64	64	42	42
80°	32	32	32	32
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 15102 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	7.2
10°-20°	147.9	19.9
20°-30°	210.2	28.3
30°-40°	217.1	29.2
40°-50°	103.8	14.0
50°-60°	10.0	1.3
60°-70°	0.8	0.1
70°-80°	0.3	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°	411.5	55.3
0°-40°	628.6	84.5
0°-60°	742.4	99.8
0°-90°	743.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	743.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	569	569	569	569	569	
5°	567	570	561	559	567	54
15°	534	542	518	511	534	150
25°	469	479	446	435	469	216
35°	384	395	337	318	384	232
45°	152	176	103	90	152	120
55°	7	9	2	2	7	13
65°	1	1	1	1	1	1
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°	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4
0.5°	569.5	569.5	569.6	569.4	570.3	570.0	569.7	569.6	569.0	568.7	568.2
1°	569.7	569.8	570.0	569.9	570.7	570.3	569.9	569.5	568.6	568.0	567.6
1.5°	569.7	570.0	570.4	570.4	570.9	570.5	570.0	569.3	567.9	567.3	566.6
2°	569.7	570.3	570.7	570.8	571.2	570.7	569.9	568.9	567.4	566.4	565.7
2.5°	569.5	570.3	570.9	571.0	571.2	570.7	569.8	568.3	566.6	565.6	564.6
3°	569.2	570.3	570.9	571.1	571.2	570.6	569.5	567.9	565.8	564.5	563.4
3.5°	568.9	570.0	570.9	571.2	571.1	570.4	569.2	567.3	564.9	563.4	562.2
4°	568.4	569.7	570.7	571.1	570.9	570.2	568.8	566.4	563.9	562.2	560.8
4.5°	567.9	569.3	570.5	571.0	570.7	569.7	568.2	565.6	562.8	560.8	559.4
5°	567.2	568.8	570.2	570.7	570.2	569.2	567.6	564.6	561.4	559.4	557.9
5.5°	566.4	568.3	569.8	570.4	569.6	568.7	566.8	563.6	560.0	557.8	556.2
6°	565.6	567.7	569.3	569.8	569.1	568.0	566.0	562.7	558.6	556.3	554.4
6.5°	564.5	567.0	568.7	569.4	568.3	567.2	565.1	561.4	557.1	554.6	552.4
7°	563.4	566.0	567.9	568.8	567.6	566.3	564.1	560.1	555.5	552.7	550.5
7.5°	562.3	565.0	567.1	568.0	566.6	565.4	563.0	558.7	553.8	550.7	548.5
8°	561.1	564.0	566.2	567.3	565.8	564.3	561.7	557.2	551.9	548.8	546.5
8.5°	559.7	562.8	565.1	566.2	564.6	563.1	560.4	555.6	550.0	546.7	544.2
9°	558.2	561.6	564.1	565.2	563.4	561.9	559.0	553.8	548.2	544.6	542.0
9.5°	556.7	560.2	562.9	564.1	562.2	560.4	557.5	552.1	546.0	542.3	539.5
10°	555.0	558.7	561.5	562.8	560.8	559.1	555.9	550.1	543.8	540.0	537.2
10.5°	553.3	557.1	560.1	561.5	559.3	557.6	554.2	548.2	541.6	537.4	534.6
11°	551.5	555.5	558.7	560.0	557.7	555.9	552.3	546.2	539.2	535.0	532.0
11.5°	549.7	553.8	557.0	558.5	556.0	554.0	550.5	544.0	536.9	532.4	529.2
12°	547.6	551.9	555.4	556.9	554.2	552.3	548.5	541.8	534.3	529.8	526.5
12.5°	545.4	550.0	553.6	555.2	552.3	550.4	546.4	539.4	531.8	527.1	523.5
13°	543.3	548.0	551.7	553.4	550.3	548.5	544.2	537.1	529.1	524.2	520.8
13.5°	541.0	545.9	549.7	551.6	548.3	546.3	542.1	534.4	526.2	521.4	517.8
14°	538.7	543.8	547.6	549.5	546.2	544.1	539.6	532.0	523.4	518.4	514.7
14.5°	536.2	541.6	545.4	547.4	543.8	541.7	537.2	529.3	520.6	515.4	511.5
15°	533.8	539.2	543.3	545.2	541.6	539.2	534.7	526.4	517.7	512.3	508.3
15.5°	531.2	536.7	541.0	542.8	539.2	536.7	532.1	523.6	514.7	509.1	505.2
16°	528.4	534.1	538.5	540.5	536.7	534.1	529.4	520.8	511.5	505.9	501.9
16.5°	525.7	531.5	535.9	538.0	534.1	531.5	526.7	517.8	508.4	502.5	498.6
17°	522.9	528.9	533.2	535.6	531.3	528.9	523.9	514.8	505.2	499.3	495.1
17.5°	520.0	526.1	530.7	532.9	528.6	526.0	521.0	511.8	501.9	496.0	491.5
18°	517.1	523.2	527.9	530.2	525.7	523.1	518.0	508.6	498.6	492.5	487.9
18.5°	514.2	520.2	525.0	527.4	522.8	520.0	514.8	505.4	495.2	489.0	484.4
19°	510.8	517.4	522.3	524.6	519.8	517.1	511.8	502.1	491.8	485.4	480.8
19.5°	507.8	514.4	519.3	521.6	516.8	513.9	508.7	498.8	488.2	481.8	476.9
20°	504.6	511.3	516.3	518.6	513.7	510.8	505.5	495.3	484.7	478.1	473.1
20.5°	501.2	508.1	513.2	515.5	510.5	507.5	502.2	492.0	481.0	474.3	469.2
21°	498.0	504.9	510.0	512.4	507.1	504.3	498.8	488.3	477.2	470.5	465.3



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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°	487.5	494.7	500.1	502.4	497.0	494.1	488.3	477.5	465.8	458.7	453.4
23°	483.9	491.0	496.7	499.1	493.5	490.6	484.7	473.7	461.8	454.6	449.1
23.5°	480.1	487.5	493.1	495.5	489.8	487.0	481.1	469.9	457.8	450.6	444.9
24°	476.3	483.8	489.6	492.2	486.2	483.3	477.4	466.0	453.8	446.5	440.7
24.5°	472.6	480.2	486.0	488.6	482.5	479.6	473.6	462.2	449.8	442.3	436.5
25°	468.7	476.4	482.4	484.8	478.8	475.9	469.8	458.3	445.8	438.2	432.1
25.5°	464.8	472.6	478.5	481.1	475.0	472.0	465.9	454.3	441.6	433.9	427.9
26°	460.9	468.9	474.8	477.4	471.3	468.2	462.1	450.3	437.6	429.8	423.6
26.5°	456.9	465.1	471.0	473.6	467.4	464.2	458.2	446.3	433.5	425.5	419.5
27°	452.9	461.2	467.1	469.8	463.6	460.4	454.2	442.3	429.2	421.5	415.3
27.5°	448.9	457.2	463.3	465.8	459.6	456.4	450.3	438.1	425.3	417.4	411.2
28°	444.9	453.2	459.3	462.0	455.6	452.6	446.2	434.1	421.3	413.6	407.2
28.5°	440.8	449.3	455.5	457.9	451.5	448.6	442.3	430.3	417.6	409.6	403.4
29°	436.7	445.4	451.5	454.1	447.7	444.6	438.4	426.4	413.8	405.7	399.4
29.5°	432.9	441.4	447.6	450.3	443.9	440.8	434.7	422.6	409.8	401.7	395.4
30°	429.0	437.6	443.8	446.3	440.0	437.0	430.8	418.8	406.1	397.9	391.5
30.5°	425.2	433.7	439.9	442.5	436.3	433.2	427.2	415.2	402.3	393.8	387.1
31°	421.5	430.1	436.3	438.7	432.8	429.6	423.5	411.4	398.2	389.6	382.6
31.5°	417.6	426.4	432.5	435.1	429.0	425.9	419.9	407.6	393.9	384.3	376.9
32°	413.9	422.6	428.8	431.4	425.4	422.3	416.1	403.5	387.7	377.3	369.1
32.5°	410.1	418.9	425.3	427.9	421.7	418.7	412.3	399.2	380.8	369.1	360.1
33°	406.2	415.2	421.6	424.0	417.8	414.5	408.1	393.9	373.0	359.7	349.9
33.5°	401.9	411.3	417.8	420.5	413.5	410.4	403.6	387.5	364.7	349.7	339.3
34°	397.3	407.1	413.7	416.4	408.3	405.5	398.6	380.4	356.2	339.0	328.0
34.5°	391.2	402.5	409.4	412.1	401.8	399.7	393.1	372.3	346.9	328.5	316.8
35°	384.0	397.0	404.4	406.6	394.7	392.9	386.7	363.9	337.1	318.0	305.3
35.5°	376.2	390.9	398.9	400.2	387.0	385.4	379.4	354.8	326.8	307.3	294.3
36°	367.6	383.6	392.3	393.0	379.3	377.3	371.0	345.2	315.6	297.0	282.6
36.5°	358.9	375.7	385.2	385.2	371.1	368.4	361.1	334.8	304.2	286.6	271.4
37°	349.5	366.5	376.9	377.0	362.8	359.2	349.8	324.2	292.4	275.4	260.1
37.5°	339.4	356.7	367.6	368.7	353.8	349.1	337.6	312.5	281.0	264.3	248.9
38°	328.7	345.6	356.7	359.8	344.8	338.8	324.5	300.4	269.0	252.5	237.2
38.5°	317.3	334.0	345.5	350.4	334.6	327.9	311.9	287.5	257.1	240.8	225.5
39°	305.5	321.3	333.2	340.6	324.4	316.3	299.3	274.9	244.9	228.5	214.0
39.5°	293.5	308.8	320.3	330.0	313.5	304.4	287.5	261.4	233.1	216.5	202.6
40°	281.0	295.8	307.6	319.3	302.4	291.7	275.5	248.1	220.6	204.5	190.9
40.5°	268.3	282.4	295.1	308.1	290.8	279.2	264.1	234.9	208.4	193.2	179.7
41°	254.8	268.9	282.7	296.1	279.4	266.8	252.3	221.9	196.1	181.4	168.6
41.5°	241.5	256.4	270.6	284.0	267.1	254.5	240.3	208.9	183.6	170.4	157.8
42°	227.8	243.8	258.4	271.2	254.7	242.5	228.0	196.4	170.9	159.0	146.9
42.5°	214.7	231.3	246.5	258.7	241.6	230.5	215.3	184.2	158.5	147.8	136.0
43°	201.6	218.7	234.2	245.8	228.6	218.5	202.9	172.3	146.4	136.4	125.4
43.5°	189.1	206.3	222.2	233.2	215.2	206.5	190.8	160.4	134.7	125.6	115.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	152.5	169.4	185.3	194.8	176.1	170.2	156.0	127.8	102.8	94.8	86.5
45.5°	141.3	157.6	173.8	182.5	163.2	158.4	144.6	117.6	93.2	85.0	76.9
46°	129.9	146.1	162.0	170.1	150.9	146.8	133.6	108.2	83.6	75.1	67.3
46.5°	118.8	135.3	150.8	158.2	138.7	135.5	122.8	98.8	74.0	65.3	59.1
47°	108.2	124.8	139.6	146.4	126.9	124.2	111.8	89.4	65.9	57.1	51.2
47.5°	97.9	114.6	128.8	134.6	115.5	113.2	102.2	80.0	58.1	49.2	44.1
48°	88.2	104.6	118.1	123.1	105.6	102.8	92.6	70.6	50.9	41.7	37.5
48.5°	78.9	95.2	107.3	112.0	95.7	92.5	83.0	62.2	44.3	35.3	31.7
49°	70.2	85.9	97.1	101.0	85.8	82.1	73.5	54.4	38.1	29.5	26.5
49.5°	62.1	77.0	87.1	90.9	75.8	71.8	65.3	47.4	32.5	24.4	22.0
50°	54.6	68.5	77.5	81.0	66.0	62.4	56.9	40.5	27.3	20.2	18.0
50.5°	47.7	60.2	68.6	71.5	57.4	53.8	49.1	34.3	22.7	16.6	14.8
51°	41.1	52.3	59.6	62.7	49.5	45.5	41.7	28.9	18.6	14.3	12.7
51.5°	35.4	44.7	51.4	54.2	42.2	38.4	35.1	23.9	16.0	11.8	10.6
52°	30.6	37.9	43.9	46.5	35.3	31.8	28.5	19.4	13.4	9.5	8.4
52.5°	25.8	32.9	36.7	39.1	29.0	25.8	22.8	16.6	10.9	7.1	6.3
53°	21.0	27.7	31.6	33.8	23.3	20.7	17.9	13.9	8.3	4.8	4.2
53.5°	16.2	22.6	26.5	28.5	18.2	16.4	15.0	11.2	5.8	3.5	3.0
54°	12.8	17.5	21.3	23.3	15.3	13.7	12.2	8.5	3.2	2.6	2.2
54.5°	9.7	12.5	16.2	17.9	12.3	11.0	9.4	5.8	2.3	2.0	1.9
55°	7.1	9.1	11.1	12.7	9.3	8.3	6.5	3.1	2.0	1.8	1.8
55.5°	4.9	6.5	8.0	9.3	6.2	5.7	3.6	2.2	1.8	1.8	1.7
56°	3.3	4.4	5.4	6.5	3.2	3.0	2.6	1.9	1.8	1.7	1.6
56.5°	2.9	3.8	3.6	4.3	2.3	2.2	2.0	1.8	1.7	1.6	1.6
57°	2.5	3.3	3.2	3.6	2.0	1.9	1.9	1.8	1.6	1.6	1.5
57.5°	2.0	2.8	2.7	3.0	1.9	1.8	1.8	1.7	1.6	1.5	1.4
58°	1.7	2.2	2.2	2.5	1.8	1.8	1.7	1.6	1.5	1.4	1.4
58.5°	1.6	1.7	1.8	1.8	1.7	1.7	1.7	1.6	1.4	1.4	1.3
59°	1.5	1.6	1.7	1.7	1.6	1.6	1.6	1.5	1.4	1.3	1.3
59.5°	1.5	1.6	1.6	1.7	1.6	1.6	1.5	1.4	1.3	1.3	1.2
60°	1.4	1.5	1.6	1.6	1.5	1.5	1.5	1.4	1.3	1.2	1.2
60.5°	1.3	1.4	1.5	1.5	1.4	1.4	1.4	1.3	1.2	1.2	1.1
61°	1.3	1.4	1.4	1.5	1.4	1.4	1.3	1.2	1.1	1.1	1.1
61.5°	1.2	1.3	1.4	1.4	1.3	1.3	1.3	1.2	1.1	1.1	1.0
62°	1.2	1.2	1.3	1.3	1.2	1.2	1.2	1.1	1.0	1.0	1.0
62.5°	1.1	1.2	1.2	1.3	1.2	1.2	1.2	1.1	1.0	1.0	0.9
63°	1.1	1.1	1.2	1.2	1.1	1.1	1.1	1.0	1.0	0.9	0.9
63.5°	1.0	1.1	1.1	1.2	1.1	1.1	1.1	1.0	0.9	0.9	0.9
64°	1.0	1.0	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.7
64.5°	0.9	1.0	1.0	1.1	1.0	1.0	1.0	0.9	0.7	0.7	0.7
65°	0.9	0.9	1.0	1.0	0.9	0.9	0.9	0.9	0.7	0.7	0.7
65.5°	0.7	0.9	0.9	1.0	0.9	0.9	0.9	0.7	0.7	0.7	0.6
66°	0.7	0.9	0.9	0.9	0.9	0.9	0.7	0.7	0.6	0.6	0.6



TEST NUMBER: P775759

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMB-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.5
68°	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5
68.5°	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5
69°	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.4
69.5°	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4
70.5°	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4
71°	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4
71.5°	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3
72°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
72.5°	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3
73°	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2
74.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2
75.5°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2
76°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2
76.5°	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2
78°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
78.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
79°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
79.5°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
80°	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
80.5°	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
81°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
81.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
82°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
82.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
83°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
83.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
84°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.1	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: P775759

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMB-1000lm-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775759

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMB-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	569.4	569.4	569.4	569.4	569.4	569.4
0.5°	568.0	569.2	569.1	569.1	569.5	569.5
1°	567.2	568.4	568.4	568.7	569.3	569.7
1.5°	566.2	567.7	567.7	568.1	569.0	569.7
2°	565.1	566.8	567.0	567.5	568.7	569.7
2.5°	564.0	565.8	566.0	566.6	568.2	569.5
3°	562.8	564.7	565.0	565.8	567.6	569.2
3.5°	561.4	563.5	563.9	564.8	566.8	568.9
4°	559.9	562.3	562.7	563.8	566.1	568.4
4.5°	558.4	560.9	561.4	562.6	565.2	567.9
5°	556.9	559.4	560.0	561.3	564.3	567.2
5.5°	555.1	557.9	558.5	560.0	563.1	566.4
6°	553.3	556.2	556.8	558.5	561.9	565.6
6.5°	551.4	554.5	555.2	556.9	560.8	564.5
7°	549.5	552.7	553.5	555.3	559.4	563.4
7.5°	547.3	550.7	551.6	553.6	557.9	562.3
8°	545.1	548.7	549.7	551.7	556.3	561.1
8.5°	542.8	546.5	547.5	549.9	554.7	559.7
9°	540.4	544.2	545.4	547.9	553.0	558.2
9.5°	537.9	542.0	543.2	545.6	551.2	556.7
10°	535.6	539.5	540.8	543.5	549.1	555.0
10.5°	532.9	537.2	538.5	541.1	547.1	553.3
11°	530.3	534.5	535.9	538.9	544.9	551.5
11.5°	527.5	532.0	533.4	536.4	542.8	549.7
12°	524.6	529.3	530.7	533.9	540.6	547.6
12.5°	521.7	526.4	528.0	531.2	538.2	545.4
13°	518.7	523.6	525.2	528.6	535.6	543.3
13.5°	515.6	520.7	522.4	525.8	533.2	541.0
14°	512.6	517.7	519.5	523.0	530.6	538.7
14.5°	509.5	514.6	516.5	520.1	528.0	536.2
15°	506.2	511.4	513.3	517.1	525.1	533.8
15.5°	502.8	508.3	510.2	514.0	522.4	531.2
16°	499.5	505.0	506.9	511.0	519.5	528.4
16.5°	496.0	501.6	503.6	507.9	516.5	525.7
17°	492.6	498.3	500.3	504.7	513.4	522.9
17.5°	489.0	494.7	496.9	501.2	510.3	520.0
18°	485.4	491.2	493.5	497.9	507.2	517.1
18.5°	481.8	487.6	489.8	494.4	503.9	514.2
19°	478.0	484.0	486.2	490.9	500.6	510.8
19.5°	474.2	480.2	482.6	487.4	497.3	507.8
20°	470.2	476.5	478.7	483.8	493.8	504.6
20.5°	466.4	472.6	475.0	480.1	490.4	501.2
21°	462.4	468.6	471.1	476.3	486.7	498.0

TEST NUMBER: P775759

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMB-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	450.0	456.6	459.1	464.7	475.9	487.5
23°	445.8	452.4	455.1	460.7	471.9	483.9
23.5°	441.6	448.1	450.9	456.7	468.1	480.1
24°	437.2	443.9	446.7	452.6	464.1	476.3
24.5°	433.1	439.6	442.6	448.4	460.3	472.6
25°	428.7	435.2	438.2	444.2	456.2	468.7
25.5°	424.3	430.9	434.0	440.0	452.2	464.8
26°	420.1	426.6	429.7	435.9	448.1	460.9
26.5°	415.8	422.3	425.4	431.6	444.0	456.9
27°	411.5	417.9	421.1	427.3	439.9	452.9
27.5°	407.5	413.7	416.9	423.3	435.7	448.9
28°	403.4	409.4	412.6	419.1	431.7	444.9
28.5°	399.4	405.3	408.5	415.1	427.5	440.8
29°	395.4	401.4	404.6	411.1	423.6	436.7
29.5°	391.4	397.3	400.5	407.3	419.7	432.9
30°	387.3	393.3	396.6	403.4	415.8	429.0
30.5°	382.9	389.1	392.5	399.4	412.1	425.2
31°	378.4	385.1	388.5	395.3	408.3	421.5
31.5°	371.6	380.7	384.1	391.3	404.5	417.6
32°	363.7	375.6	379.1	386.8	400.4	413.9
32.5°	354.9	368.1	372.1	381.2	396.3	410.1
33°	344.7	359.1	364.0	374.2	391.7	406.2
33.5°	334.0	349.1	355.0	365.1	385.2	401.9
34°	323.0	339.3	345.0	354.3	377.7	397.3
34.5°	312.0	329.0	334.1	343.3	369.2	391.2
35°	300.7	318.3	322.1	332.1	359.7	384.0
35.5°	288.8	307.5	310.1	321.1	350.1	376.2
36°	276.6	295.7	298.3	310.3	340.0	367.6
36.5°	264.1	283.7	286.1	299.5	329.1	358.9
37°	251.8	271.2	274.3	288.8	318.0	349.5
37.5°	239.5	258.8	262.6	277.5	306.5	339.4
38°	227.6	245.9	250.7	265.3	295.1	328.7
38.5°	215.8	233.5	239.0	253.1	283.3	317.3
39°	204.1	221.0	227.3	240.8	272.2	305.5
39.5°	192.4	208.4	215.4	228.4	260.7	293.5
40°	180.7	195.5	203.4	216.0	249.2	281.0
40.5°	169.0	183.3	191.6	204.6	236.8	268.3
41°	157.4	171.4	179.8	193.1	224.8	254.8
41.5°	146.4	159.9	168.4	182.0	212.0	241.5
42°	135.0	148.9	157.3	171.1	199.3	227.8
42.5°	124.7	137.8	146.4	160.0	186.7	214.7
43°	114.8	127.7	135.7	148.6	174.3	201.6
43.5°	106.0	117.6	125.2	137.4	162.0	189.1



TEST NUMBER: P775759

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMB-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	80.0	90.2	95.2	105.5	126.7	152.5
45.5°	71.4	82.0	86.1	95.7	115.5	141.3
46°	63.3	74.1	77.5	86.2	104.8	129.9
46.5°	56.3	66.7	69.2	76.7	94.3	118.8
47°	49.8	59.8	61.5	67.7	84.2	108.2
47.5°	43.8	53.2	54.2	59.1	74.9	97.9
48°	38.1	47.0	47.5	50.7	66.1	88.2
48.5°	32.7	41.3	41.2	43.1	58.1	78.9
49°	27.9	36.3	35.9	36.1	50.7	70.2
49.5°	23.6	31.8	31.4	31.3	43.8	62.1
50°	19.6	27.4	26.7	26.6	37.4	54.6
50.5°	16.1	22.9	22.1	21.8	32.9	47.7
51°	13.7	18.6	17.4	17.1	28.3	41.1
51.5°	11.2	15.1	14.1	14.0	23.7	35.4
52°	8.9	12.2	11.3	11.3	19.0	30.6
52.5°	6.4	9.4	8.7	9.1	14.5	25.8
53°	3.9	6.9	6.6	7.0	11.5	21.0
53.5°	2.7	4.9	4.8	5.2	9.0	16.2
54°	2.0	3.3	3.3	3.7	6.7	12.8
54.5°	1.8	2.9	2.9	3.2	4.9	9.7
55°	1.7	2.5	2.5	2.7	3.4	7.1
55.5°	1.6	2.0	2.0	2.1	3.0	4.9
56°	1.6	1.6	1.6	1.7	2.6	3.3
56.5°	1.5	1.6	1.5	1.6	2.0	2.9
57°	1.4	1.5	1.5	1.5	1.6	2.5
57.5°	1.4	1.4	1.4	1.5	1.6	2.0
58°	1.3	1.4	1.4	1.4	1.5	1.7
58.5°	1.3	1.3	1.3	1.3	1.5	1.6
59°	1.2	1.3	1.2	1.3	1.4	1.5
59.5°	1.2	1.2	1.2	1.2	1.3	1.5
60°	1.1	1.1	1.1	1.1	1.3	1.4
60.5°	1.1	1.1	1.1	1.1	1.2	1.3
61°	1.0	1.0	1.0	1.0	1.1	1.3
61.5°	1.0	1.0	1.0	1.0	1.1	1.2
62°	0.9	1.0	0.9	1.0	1.0	1.2
62.5°	0.9	0.9	0.9	0.9	1.0	1.1
63°	0.7	0.9	0.9	0.9	0.9	1.1
63.5°	0.7	0.7	0.7	0.7	0.9	1.0
64°	0.7	0.7	0.7	0.7	0.9	1.0
64.5°	0.6	0.7	0.6	0.7	0.7	0.9
65°	0.6	0.6	0.6	0.6	0.7	0.9
65.5°	0.6	0.6	0.6	0.6	0.7	0.7
66°	0.6	0.6	0.6	0.6	0.6	0.7



TEST NUMBER: P775759

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMB-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.5	0.5	0.5	0.5	0.5	0.6
68°	0.5	0.5	0.4	0.5	0.5	0.6
68.5°	0.4	0.4	0.4	0.4	0.5	0.5
69°	0.4	0.4	0.4	0.4	0.5	0.5
69.5°	0.4	0.4	0.4	0.4	0.4	0.5
70°	0.4	0.4	0.4	0.4	0.4	0.5
70.5°	0.3	0.4	0.3	0.3	0.4	0.4
71°	0.3	0.3	0.3	0.3	0.4	0.4
71.5°	0.3	0.3	0.3	0.3	0.3	0.4
72°	0.3	0.3	0.3	0.3	0.3	0.4
72.5°	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.2	0.2	0.2	0.2	0.3	0.3
74°	0.2	0.2	0.2	0.2	0.3	0.3
74.5°	0.2	0.2	0.2	0.2	0.2	0.3
75°	0.2	0.2	0.2	0.2	0.2	0.3
75.5°	0.2	0.2	0.2	0.2	0.2	0.2
76°	0.2	0.2	0.2	0.2	0.2	0.2
76.5°	0.2	0.2	0.2	0.2	0.2	0.2
77°	0.2	0.2	0.1	0.1	0.2	0.2
77.5°	0.1	0.1	0.1	0.1	0.2	0.2
78°	0.1	0.1	0.1	0.1	0.1	0.2
78.5°	0.1	0.1	0.1	0.1	0.1	0.2
79°	0.1	0.1	0.1	0.1	0.1	0.1
79.5°	0.1	0.1	0.1	0.1	0.1	0.1
80°	0.1	0.1	0.1	0.1	0.1	0.1
80.5°	0.1	0.1	0.1	0.1	0.1	0.1
81°	0.1	0.1	0.1	0.1	0.1	0.1
81.5°	0.1	0.1	0.1	0.1	0.1	0.1
82°	0.1	0.1	0.1	0.1	0.1	0.1
82.5°	0.0	0.1	0.1	0.0	0.1	0.1
83°	0.0	0.0	0.0	0.0	0.0	0.1
83.5°	0.0	0.0	0.0	0.0	0.0	0.1
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: P775759

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMB-1000lm-5000K

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°	494.5	501.4	506.6	509.1	503.8	501.0	495.4	484.7	473.4	466.7	461.4
22°	490.9	498.0	503.5	505.8	500.4	497.5	491.9	481.1	469.7	462.7	457.3



44°	176.6	193.8	209.8	220.3	202.2	194.5	179.0	149.2	123.5	114.6	105.7
44.5°	164.6	181.4	197.7	207.5	189.0	182.4	167.5	138.5	112.5	104.8	96.1



66.5°	0.7	0.7	0.9	0.9	0.7	0.7	0.7	0.7	0.6	0.6	0.6
67°	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.5



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°	458.4	464.6	467.2	472.4	483.2	494.5
22°	454.1	460.4	463.2	468.6	479.5	490.9



44°	97.4	108.1	114.8	126.4	150.2	176.6
44.5°	88.6	98.9	105.0	116.0	138.2	164.6



66.5°	0.5	0.5	0.5	0.5	0.6	0.7
67°	0.5	0.5	0.5	0.5	0.6	0.6

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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)