

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: P775755

Luminaire Tested: HCDJBS510CSD-HCD62TRMB-1000lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775755
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-2700K
Description: 6 INCH ROUND NARROW MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 698.0 lumens
Efficiency: N/A
Efficacy: 69.8 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

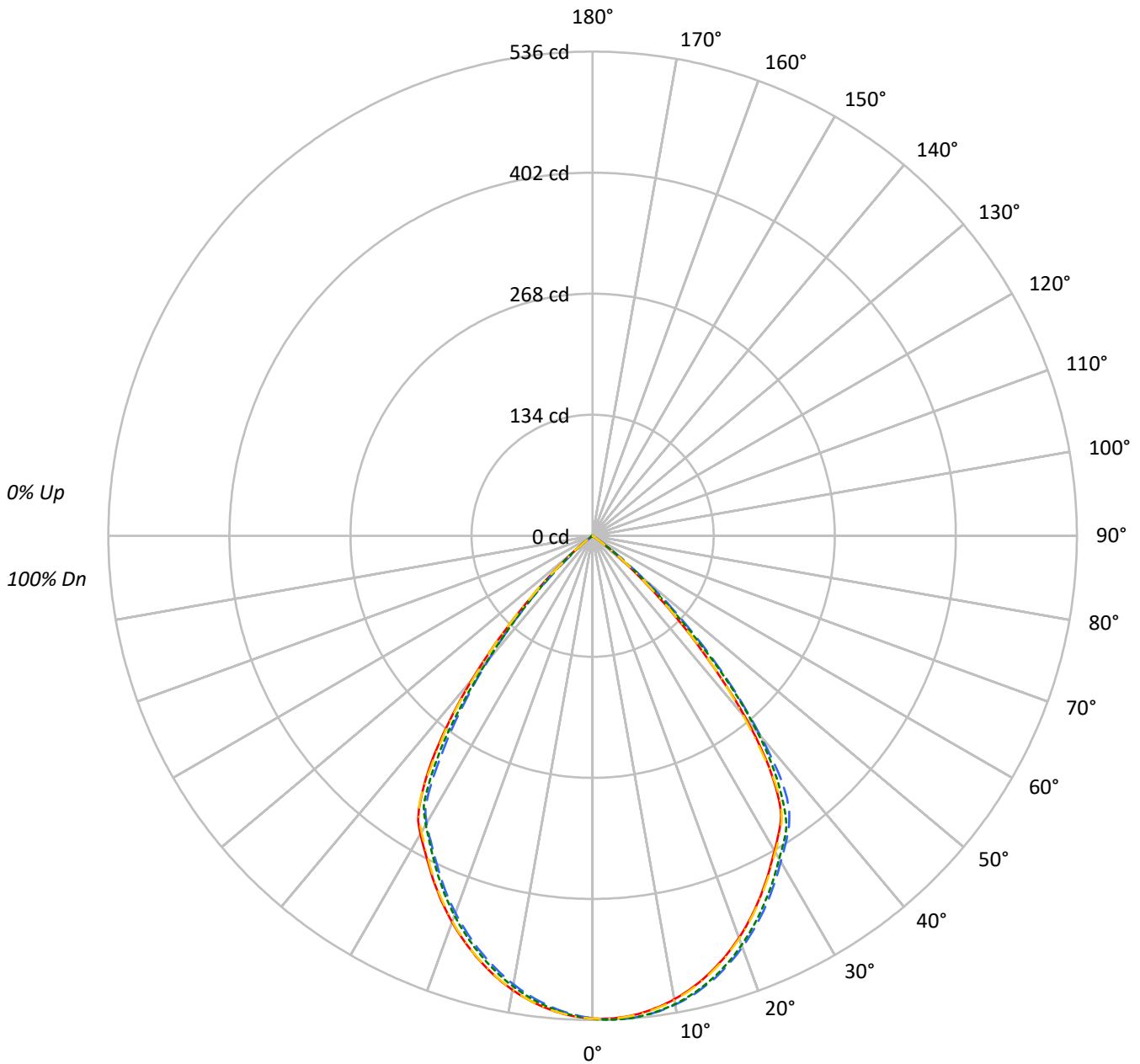
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	105	111	108	105	103	104	102	100	100	98	97	97	95	94	92			92																
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85			85																
3	101	94	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77			77																
4	95	86	80	76	93	85	80	75	83	78	74	81	77	73	79	75	72	71			71																
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65			65																
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	64	61	60			60																
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55			55																
8	75	64	57	53	73	63	57	53	62	57	52	61	56	52	60	56	52	51			51																
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47			47																
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43			43																

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	29301	29301	29301	29301
5°	29298	29452	29001	28896
10°	29002	29303	28417	28195
15°	28439	28854	27577	27242
20°	27629	28131	26544	26095
25°	26614	27189	25314	24709
30°	25491	26150	24130	23371
35°	24126	24795	21174	19997
40°	18878	20317	14821	13132
45°	11102	12815	7481	6567
50°	4375	5288	2183	2192
55°	640	832	182	220
60°	143	153	132	110
65°	104	104	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: 14172 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	7.2
10°-20°	138.8	19.9
20°-30°	197.4	28.3
30°-40°	203.8	29.2
40°-50°	97.4	14.0
50°-60°	9.4	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°	386.3	55.3
0°-40°	590.1	84.5
0°-60°	696.9	99.8
0°-90°	698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	698.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	534	534	534	534	534	
5°	532	535	527	525	532	50
15°	501	508	486	480	501	141
25°	440	450	418	408	440	202
35°	360	370	316	299	360	218
45°	143	165	96	85	143	112
55°	7	9	2	2	7	12
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°	534.5	534.5	534.5	534.5	534.5	534.5	534.5	534.5	534.5	534.5	534.5
0.5°	534.6	534.6	534.7	534.5	535.3	535.1	534.8	534.7	534.1	533.8	533.4
1°	534.8	534.9	535.1	535.0	535.7	535.3	535.0	534.6	533.7	533.2	532.8
1.5°	534.8	535.1	535.4	535.4	535.9	535.5	535.1	534.4	533.1	532.5	531.9
2°	534.8	535.3	535.7	535.8	536.2	535.7	535.0	534.0	532.6	531.7	531.0
2.5°	534.6	535.3	535.9	536.0	536.2	535.7	534.9	533.5	531.9	530.9	530.0
3°	534.3	535.3	535.9	536.1	536.2	535.6	534.6	533.1	531.1	529.9	528.9
3.5°	534.0	535.1	535.9	536.2	536.1	535.4	534.3	532.5	530.3	528.9	527.7
4°	533.6	534.8	535.7	536.1	535.9	535.2	533.9	531.7	529.3	527.7	526.4
4.5°	533.1	534.4	535.5	536.0	535.7	534.8	533.4	530.9	528.3	526.4	525.1
5°	532.4	533.9	535.2	535.7	535.2	534.3	532.8	530.0	527.0	525.1	523.7
5.5°	531.7	533.5	534.9	535.4	534.7	533.8	532.1	529.1	525.7	523.6	522.1
6°	530.9	532.9	534.4	534.9	534.2	533.2	531.3	528.2	524.4	522.2	520.4
6.5°	529.9	532.2	533.8	534.5	533.5	532.4	530.5	527.0	523.0	520.6	518.6
7°	528.9	531.3	533.1	533.9	532.8	531.6	529.5	525.8	521.5	518.8	516.8
7.5°	527.8	530.4	532.3	533.2	531.9	530.7	528.5	524.5	519.9	517.0	514.9
8°	526.7	529.4	531.5	532.5	531.1	529.7	527.3	523.1	518.1	515.2	513.0
8.5°	525.4	528.3	530.5	531.5	530.0	528.6	526.1	521.6	516.3	513.2	510.9
9°	524.0	527.2	529.5	530.6	528.9	527.5	524.7	519.9	514.6	511.2	508.8
9.5°	522.6	525.9	528.4	529.5	527.7	526.1	523.3	518.3	512.6	509.1	506.5
10°	521.0	524.5	527.1	528.3	526.4	524.8	521.8	516.4	510.5	506.9	504.3
10.5°	519.4	523.0	525.8	527.1	525.0	523.4	520.2	514.6	508.4	504.5	501.9
11°	517.7	521.5	524.5	525.7	523.5	521.8	518.5	512.7	506.2	502.2	499.4
11.5°	516.0	519.9	522.9	524.3	521.9	520.1	516.8	510.7	504.0	499.8	496.8
12°	514.1	518.1	521.4	522.8	520.2	518.5	514.9	508.6	501.6	497.4	494.3
12.5°	512.0	516.3	519.7	521.2	518.5	516.7	512.9	506.4	499.2	494.8	491.5
13°	510.0	514.4	517.9	519.5	516.6	514.9	510.9	504.2	496.7	492.1	488.9
13.5°	507.9	512.5	516.0	517.8	514.7	512.8	508.9	501.7	494.0	489.5	486.0
14°	505.7	510.5	514.1	515.8	512.7	510.8	506.6	499.4	491.4	486.6	483.1
14.5°	503.4	508.4	512.0	513.9	510.5	508.5	504.3	496.9	488.7	483.8	480.1
15°	501.1	506.2	510.0	511.8	508.4	506.2	502.0	494.2	485.9	480.9	477.1
15.5°	498.7	503.8	507.9	509.6	506.2	503.8	499.5	491.6	483.1	477.9	474.2
16°	496.1	501.4	505.5	507.4	503.8	501.4	497.0	488.9	480.1	474.9	471.1
16.5°	493.5	499.0	503.1	505.1	501.4	499.0	494.5	486.0	477.2	471.7	468.0
17°	490.9	496.5	500.6	502.8	498.8	496.5	491.8	483.2	474.2	468.7	464.7
17.5°	488.2	493.9	498.2	500.3	496.2	493.8	489.1	480.4	471.1	465.6	461.4
18°	485.4	491.2	495.6	497.7	493.5	491.1	486.2	477.4	468.0	462.3	458.0
18.5°	482.6	488.4	492.9	495.1	490.8	488.2	483.2	474.4	464.8	459.0	454.7
19°	479.5	485.6	490.3	492.5	488.0	485.4	480.4	471.3	461.6	455.6	451.3
19.5°	476.6	482.8	487.4	489.7	485.1	482.4	477.5	468.2	458.3	452.3	447.7
20°	473.6	479.9	484.6	486.8	482.2	479.5	474.5	464.9	455.0	448.8	444.1
20.5°	470.5	476.9	481.7	483.9	479.2	476.4	471.4	461.8	451.5	445.2	440.5
21°	467.5	473.9	478.7	481.0	476.0	473.4	468.2	458.4	448.0	441.7	436.8



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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°	457.6	464.4	469.4	471.6	466.5	463.8	458.4	448.2	437.3	430.6	425.6
23°	454.2	460.9	466.2	468.5	463.2	460.5	455.0	444.7	433.5	426.8	421.6
23.5°	450.7	457.6	462.9	465.1	459.8	457.1	451.6	441.1	429.8	423.0	417.7
24°	447.1	454.1	459.6	462.0	456.4	453.7	448.1	437.5	426.0	419.2	413.7
24.5°	443.6	450.8	456.2	458.6	452.9	450.2	444.6	433.9	422.3	415.2	409.7
25°	440.0	447.2	452.8	455.1	449.5	446.7	441.0	430.2	418.5	411.3	405.6
25.5°	436.3	443.6	449.2	451.6	445.9	443.1	437.4	426.5	414.6	407.3	401.6
26°	432.7	440.2	445.7	448.1	442.4	439.5	433.8	422.7	410.7	403.4	397.6
26.5°	428.9	436.6	442.1	444.6	438.8	435.8	430.1	419.0	406.9	399.4	393.8
27°	425.2	433.0	438.5	441.0	435.2	432.2	426.4	415.2	402.9	395.6	389.8
27.5°	421.4	429.2	434.9	437.3	431.5	428.5	422.7	411.2	399.2	391.8	386.0
28°	417.7	425.5	431.2	433.7	427.7	424.9	418.9	407.5	395.5	388.2	382.2
28.5°	413.8	421.8	427.6	429.9	423.9	421.1	415.2	403.9	392.0	384.5	378.7
29°	409.9	418.1	423.9	426.3	420.3	417.4	411.5	400.2	388.4	380.8	374.9
29.5°	406.3	414.4	420.2	422.7	416.7	413.8	408.0	396.7	384.7	377.1	371.2
30°	402.7	410.7	416.6	419.0	413.1	410.2	404.4	393.1	381.2	373.5	367.5
30.5°	399.1	407.1	413.0	415.4	409.5	406.6	401.0	389.7	377.6	369.7	363.4
31°	395.6	403.7	409.5	411.8	406.2	403.2	397.5	386.2	373.8	365.7	359.2
31.5°	392.0	400.2	406.0	408.4	402.7	399.8	394.1	382.6	369.8	360.8	353.8
32°	388.5	396.7	402.5	404.9	399.3	396.4	390.6	378.8	364.0	354.2	346.5
32.5°	385.0	393.2	399.2	401.6	395.8	393.0	387.0	374.7	357.5	346.5	338.1
33°	381.3	389.7	395.7	398.0	392.2	389.1	383.1	369.8	350.2	337.7	328.4
33.5°	377.3	386.1	392.2	394.7	388.1	385.2	378.9	363.8	342.4	328.2	318.5
34°	373.0	382.1	388.3	390.9	383.3	380.6	374.2	357.1	334.3	318.2	307.9
34.5°	367.2	377.8	384.3	386.8	377.2	375.2	369.0	349.5	325.6	308.4	297.4
35°	360.5	372.7	379.6	381.7	370.5	368.8	363.0	341.6	316.4	298.5	286.6
35.5°	353.2	367.0	374.5	375.7	363.3	361.8	356.2	333.0	306.8	288.5	276.3
36°	345.1	360.1	368.3	368.9	356.1	354.2	348.3	324.0	296.3	278.8	265.3
36.5°	336.9	352.7	361.6	361.6	348.4	345.9	339.0	314.3	285.6	269.1	254.7
37°	328.0	344.1	353.8	353.9	340.6	337.1	328.3	304.3	274.5	258.5	244.1
37.5°	318.6	334.8	345.1	346.1	332.1	327.7	316.9	293.4	263.8	248.1	233.6
38°	308.5	324.4	334.8	337.8	323.6	318.0	304.6	282.0	252.5	237.0	222.7
38.5°	297.9	313.5	324.3	328.9	314.1	307.8	292.8	269.9	241.3	226.0	211.7
39°	286.8	301.6	312.8	319.7	304.5	296.9	281.0	258.0	229.9	214.5	200.9
39.5°	275.5	289.9	300.7	309.8	294.3	285.8	269.9	245.4	218.8	203.3	190.2
40°	263.8	277.7	288.8	299.7	283.9	273.9	258.6	232.9	207.1	192.0	179.2
40.5°	251.8	265.1	277.0	289.2	273.0	262.0	247.9	220.5	195.7	181.3	168.7
41°	239.2	252.4	265.4	278.0	262.2	250.4	236.8	208.3	184.0	170.3	158.3
41.5°	226.7	240.7	254.0	266.6	250.7	238.9	225.6	196.1	172.3	159.9	148.1
42°	213.9	228.9	242.5	254.5	239.1	227.6	214.0	184.3	160.4	149.3	137.9
42.5°	201.6	217.1	231.4	242.8	226.8	216.4	202.1	172.9	148.8	138.8	127.7
43°	189.3	205.3	219.9	230.7	214.6	205.1	190.5	161.7	137.4	128.1	117.8
43.5°	177.5	193.7	208.6	218.9	202.0	193.9	179.1	150.6	126.5	117.9	108.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	143.2	159.0	173.9	182.8	165.3	159.8	146.4	120.0	96.5	89.0	81.2
45.5°	132.7	147.9	163.1	171.3	153.2	148.7	135.8	110.3	87.5	79.8	72.2
46°	122.0	137.2	152.1	159.7	141.7	137.8	125.4	101.5	78.5	70.5	63.2
46.5°	111.5	127.0	141.6	148.5	130.2	127.2	115.3	92.7	69.5	61.3	55.5
47°	101.5	117.2	131.1	137.4	119.2	116.6	104.9	83.9	61.9	53.6	48.1
47.5°	91.9	107.5	120.9	126.4	108.4	106.2	95.9	75.1	54.6	46.2	41.4
48°	82.8	98.2	110.8	115.6	99.1	96.5	86.9	66.3	47.8	39.2	35.2
48.5°	74.1	89.3	100.7	105.1	89.8	86.8	77.9	58.4	41.6	33.1	29.7
49°	65.9	80.6	91.1	94.8	80.5	77.1	69.0	51.1	35.7	27.7	24.8
49.5°	58.3	72.3	81.8	85.3	71.2	67.4	61.3	44.5	30.5	22.9	20.6
50°	51.3	64.3	72.8	76.0	62.0	58.6	53.4	38.1	25.6	18.9	16.9
50.5°	44.8	56.5	64.4	67.1	53.9	50.5	46.1	32.2	21.3	15.6	13.9
51°	38.6	49.1	56.0	58.9	46.5	42.8	39.2	27.1	17.4	13.4	11.9
51.5°	33.2	42.0	48.3	50.9	39.7	36.0	32.9	22.4	15.0	11.1	9.9
52°	28.7	35.5	41.3	43.7	33.1	29.8	26.7	18.2	12.6	8.9	7.9
52.5°	24.2	30.8	34.4	36.7	27.2	24.2	21.4	15.6	10.2	6.7	5.9
53°	19.7	26.0	29.6	31.7	21.8	19.4	16.8	13.0	7.8	4.5	3.9
53.5°	15.2	21.2	24.8	26.7	17.1	15.4	14.1	10.5	5.4	3.3	2.8
54°	12.0	16.4	20.0	21.8	14.3	12.8	11.4	8.0	3.0	2.4	2.1
54.5°	9.1	11.7	15.2	16.8	11.5	10.3	8.8	5.4	2.2	1.9	1.8
55°	6.7	8.5	10.4	11.9	8.7	7.8	6.1	2.9	1.9	1.7	1.7
55.5°	4.6	6.1	7.5	8.7	5.8	5.3	3.4	2.1	1.7	1.7	1.6
56°	3.1	4.1	5.1	6.1	3.0	2.8	2.4	1.8	1.7	1.6	1.5
56.5°	2.7	3.6	3.4	4.0	2.2	2.1	1.9	1.7	1.6	1.5	1.5
57°	2.3	3.1	3.0	3.4	1.9	1.8	1.8	1.7	1.5	1.5	1.4
57.5°	1.9	2.6	2.5	2.8	1.8	1.7	1.7	1.6	1.5	1.4	1.3
58°	1.6	2.1	2.1	2.3	1.7	1.7	1.6	1.5	1.4	1.3	1.3
58.5°	1.5	1.6	1.7	1.7	1.6	1.6	1.6	1.5	1.3	1.3	1.2
59°	1.4	1.5	1.6	1.6	1.5	1.5	1.5	1.4	1.3	1.2	1.2
59.5°	1.4	1.5	1.5	1.6	1.5	1.5	1.4	1.3	1.2	1.2	1.1
60°	1.3	1.4	1.5	1.5	1.4	1.4	1.4	1.3	1.2	1.1	1.1
60.5°	1.2	1.3	1.4	1.4	1.3	1.3	1.3	1.2	1.1	1.1	1.0
61°	1.2	1.3	1.3	1.4	1.3	1.3	1.2	1.1	1.0	1.0	1.0
61.5°	1.1	1.2	1.3	1.3	1.2	1.2	1.2	1.1	1.0	1.0	0.9
62°	1.1	1.1	1.2	1.2	1.1	1.1	1.1	1.0	0.9	0.9	0.9
62.5°	1.0	1.1	1.1	1.2	1.1	1.1	1.1	1.0	0.9	0.9	0.8
63°	1.0	1.0	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.8	0.8
63.5°	0.9	1.0	1.0	1.1	1.0	1.0	1.0	0.9	0.8	0.8	0.8
64°	0.9	0.9	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.7
64.5°	0.8	0.9	0.9	1.0	0.9	0.9	0.9	0.8	0.7	0.7	0.7
65°	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.7	0.7	0.7
65.5°	0.7	0.8	0.8	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.6
66°	0.7	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.6



TEST NUMBER: P775755

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMB-1000lm-2700K

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: P775755

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMB-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: P775755

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMB-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	534.5	534.5	534.5	534.5	534.5	534.5
0.5°	533.2	534.3	534.2	534.2	534.6	534.6
1°	532.4	533.6	533.6	533.8	534.4	534.8
1.5°	531.5	532.9	532.9	533.3	534.1	534.8
2°	530.5	532.1	532.2	532.7	533.8	534.8
2.5°	529.4	531.1	531.3	531.9	533.4	534.6
3°	528.3	530.1	530.4	531.1	532.8	534.3
3.5°	527.0	529.0	529.3	530.2	532.1	534.0
4°	525.6	527.8	528.2	529.2	531.4	533.6
4.5°	524.2	526.5	527.0	528.1	530.6	533.1
5°	522.8	525.1	525.7	526.9	529.7	532.4
5.5°	521.1	523.7	524.3	525.7	528.6	531.7
6°	519.4	522.1	522.7	524.3	527.5	530.9
6.5°	517.6	520.5	521.2	522.8	526.4	529.9
7°	515.8	518.8	519.6	521.3	525.1	528.9
7.5°	513.8	517.0	517.8	519.7	523.7	527.8
8°	511.7	515.1	516.0	517.9	522.2	526.7
8.5°	509.6	513.0	514.0	516.2	520.7	525.4
9°	507.3	510.9	512.0	514.3	519.1	524.0
9.5°	505.0	508.8	509.9	512.2	517.4	522.6
10°	502.8	506.5	507.7	510.2	515.5	521.0
10.5°	500.3	504.3	505.5	508.0	513.6	519.4
11°	497.8	501.8	503.1	505.9	511.5	517.7
11.5°	495.2	499.4	500.7	503.6	509.6	516.0
12°	492.5	496.9	498.2	501.2	507.5	514.1
12.5°	489.8	494.2	495.7	498.7	505.2	512.0
13°	486.9	491.6	493.1	496.2	502.8	510.0
13.5°	484.0	488.8	490.4	493.6	500.6	507.9
14°	481.1	485.9	487.7	491.0	498.1	505.7
14.5°	478.2	483.0	484.8	488.3	495.7	503.4
15°	475.1	480.0	481.8	485.4	493.0	501.1
15.5°	472.0	477.1	478.9	482.5	490.4	498.7
16°	468.9	474.0	475.8	479.6	487.7	496.1
16.5°	465.6	470.8	472.7	476.7	484.8	493.5
17°	462.4	467.7	469.6	473.7	481.9	490.9
17.5°	459.0	464.4	466.4	470.5	479.0	488.2
18°	455.6	461.1	463.2	467.4	476.1	485.4
18.5°	452.3	457.7	459.8	464.1	473.0	482.6
19°	448.7	454.3	456.4	460.8	469.9	479.5
19.5°	445.1	450.8	453.0	457.5	466.8	476.6
20°	441.4	447.3	449.4	454.1	463.5	473.6
20.5°	437.8	443.6	445.9	450.7	460.3	470.5
21°	434.1	439.9	442.2	447.1	456.9	467.5

TEST NUMBER: P775755

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMB-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	422.5	428.6	431.0	436.2	446.7	457.6
23°	418.5	424.7	427.2	432.5	443.0	454.2
23.5°	414.6	420.7	423.3	428.7	439.4	450.7
24°	410.4	416.7	419.4	424.9	435.7	447.1
24.5°	406.5	412.7	415.5	421.0	432.1	443.6
25°	402.4	408.5	411.3	417.0	428.3	440.0
25.5°	398.3	404.5	407.4	413.1	424.5	436.3
26°	394.3	400.4	403.3	409.1	420.7	432.7
26.5°	390.3	396.4	399.3	405.1	416.8	428.9
27°	386.3	392.3	395.3	401.1	413.0	425.2
27.5°	382.5	388.3	391.3	397.3	409.0	421.4
28°	378.7	384.3	387.3	393.4	405.2	417.7
28.5°	374.9	380.5	383.5	389.6	401.3	413.8
29°	371.2	376.8	379.8	385.9	397.6	409.9
29.5°	367.4	373.0	376.0	382.3	394.0	406.3
30°	363.6	369.2	372.3	378.7	390.3	402.7
30.5°	359.5	365.3	368.5	374.9	386.8	399.1
31°	355.2	361.5	364.7	371.1	383.3	395.6
31.5°	348.9	357.4	360.6	367.3	379.7	392.0
32°	341.5	352.6	355.9	363.1	375.9	388.5
32.5°	333.1	345.6	349.3	357.9	372.0	385.0
33°	323.5	337.0	341.7	351.3	367.7	381.3
33.5°	313.5	327.7	333.2	342.8	361.6	377.3
34°	303.2	318.5	323.8	332.5	354.6	373.0
34.5°	292.9	308.8	313.6	322.2	346.6	367.2
35°	282.3	298.8	302.4	311.7	337.7	360.5
35.5°	271.1	288.7	291.1	301.4	328.6	353.2
36°	259.6	277.6	280.0	291.3	319.1	345.1
36.5°	247.9	266.4	268.6	281.2	308.9	336.9
37°	236.4	254.5	257.4	271.1	298.5	328.0
37.5°	224.8	242.9	246.5	260.4	287.7	318.6
38°	213.7	230.8	235.3	249.0	277.0	308.5
38.5°	202.6	219.2	224.4	237.6	266.0	297.9
39°	191.6	207.5	213.4	226.0	255.5	286.8
39.5°	180.6	195.7	202.2	214.4	244.7	275.5
40°	169.6	183.5	191.0	202.8	233.9	263.8
40.5°	158.6	172.0	179.8	192.1	222.3	251.8
41°	147.8	160.9	168.8	181.2	211.0	239.2
41.5°	137.4	150.1	158.1	170.8	199.0	226.7
42°	126.8	139.8	147.7	160.6	187.0	213.9
42.5°	117.1	129.4	137.4	150.2	175.2	201.6
43°	107.7	119.9	127.4	139.5	163.6	189.3
43.5°	99.5	110.3	117.6	129.0	152.1	177.5



TEST NUMBER: P775755

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMB-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	75.1	84.7	89.3	99.0	119.0	143.2
45.5°	67.0	77.0	80.8	89.8	108.4	132.7
46°	59.4	69.6	72.8	80.9	98.3	122.0
46.5°	52.9	62.6	65.0	72.0	88.5	111.5
47°	46.8	56.2	57.8	63.6	79.0	101.5
47.5°	41.2	50.0	50.9	55.5	70.3	91.9
48°	35.7	44.2	44.6	47.6	62.1	82.8
48.5°	30.7	38.8	38.7	40.5	54.6	74.1
49°	26.2	34.0	33.7	33.8	47.6	65.9
49.5°	22.1	29.8	29.4	29.3	41.2	58.3
50°	18.4	25.7	25.0	24.9	35.1	51.3
50.5°	15.1	21.5	20.7	20.4	30.8	44.8
51°	12.8	17.4	16.3	16.0	26.5	38.6
51.5°	10.5	14.2	13.2	13.1	22.2	33.2
52°	8.3	11.4	10.6	10.6	17.8	28.7
52.5°	6.0	8.8	8.2	8.5	13.6	24.2
53°	3.7	6.5	6.2	6.6	10.8	19.7
53.5°	2.5	4.6	4.5	4.9	8.4	15.2
54°	1.9	3.1	3.1	3.5	6.3	12.0
54.5°	1.7	2.7	2.7	3.0	4.6	9.1
55°	1.6	2.3	2.3	2.5	3.2	6.7
55.5°	1.5	1.9	1.9	2.0	2.8	4.6
56°	1.5	1.5	1.5	1.6	2.4	3.1
56.5°	1.4	1.5	1.4	1.5	1.9	2.7
57°	1.3	1.4	1.4	1.4	1.5	2.3
57.5°	1.3	1.3	1.3	1.4	1.5	1.9
58°	1.2	1.3	1.3	1.3	1.4	1.6
58.5°	1.2	1.2	1.2	1.2	1.4	1.5
59°	1.1	1.2	1.1	1.2	1.3	1.4
59.5°	1.1	1.1	1.1	1.1	1.2	1.4
60°	1.0	1.0	1.0	1.0	1.2	1.3
60.5°	1.0	1.0	1.0	1.0	1.1	1.2
61°	0.9	0.9	0.9	0.9	1.0	1.2
61.5°	0.9	0.9	0.9	0.9	1.0	1.1
62°	0.8	0.9	0.8	0.9	0.9	1.1
62.5°	0.8	0.8	0.8	0.8	0.9	1.0
63°	0.7	0.8	0.8	0.8	0.8	1.0
63.5°	0.7	0.7	0.7	0.7	0.8	0.9
64°	0.7	0.7	0.7	0.7	0.8	0.9
64.5°	0.6	0.7	0.6	0.7	0.7	0.8
65°	0.6	0.6	0.6	0.6	0.7	0.8
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: P775755

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMB-1000lm-2700K

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: P775755

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMB-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°	464.2	470.6	475.5	477.9	472.9	470.3	465.0	455.0	444.4	438.1	433.1
22°	460.8	467.5	472.6	474.8	469.7	467.0	461.7	451.6	440.9	434.4	429.3



44°	165.8	181.9	197.0	206.8	189.9	182.5	168.0	140.1	116.0	107.5	99.2
44.5°	154.5	170.3	185.5	194.8	177.4	171.2	157.2	130.0	105.6	98.3	90.2



66.5°	0.7	0.7	0.8	0.8	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°	430.3	436.1	438.6	443.5	453.6	464.2
22°	426.3	432.2	434.8	439.9	450.1	460.8



44°	91.4	101.4	107.7	118.7	141.0	165.8
44.5°	83.2	92.8	98.5	108.8	129.8	154.5



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)