

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: P775884

Luminaire Tested: HCDJBL510CSD-HCD8TRMB-1000lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775884
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-5000K
Description: 8 INCH ROUND MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

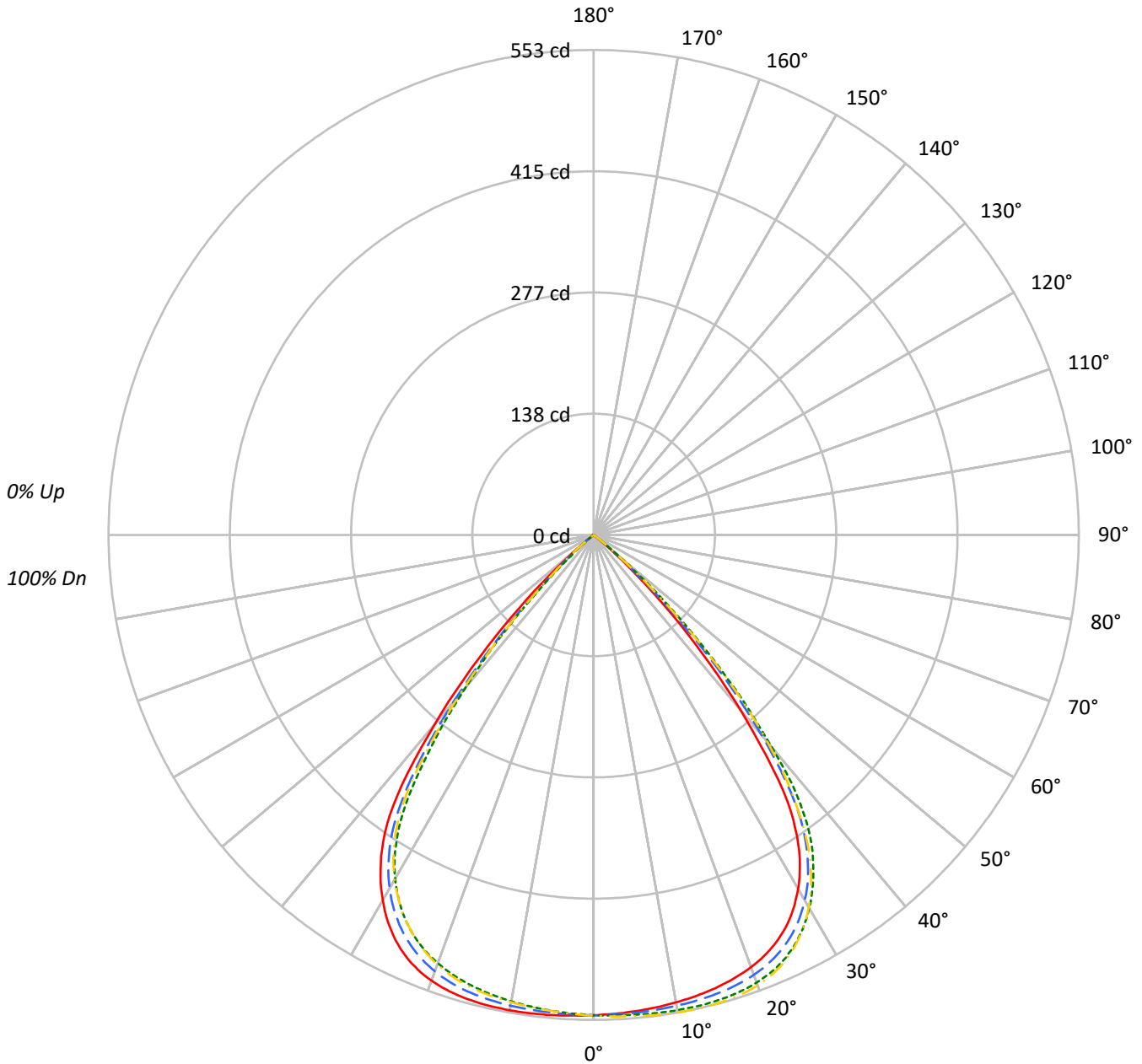
Lumens per Lamp: N/A
Luminaire Lumens: 786.2 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93								
2	107	102	97	94	105	100	96	92	97	93	90	94	91	89	91	89	87	85								
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78								
4	95	87	81	76	93	85	80	76	83	78	75	81	77	74	79	76	73	71								
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65								
6	84	74	68	63	83	74	67	63	72	66	62	70	66	62	69	65	61	60								
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55								
8	75	64	58	53	73	64	57	53	63	57	53	61	56	53	60	56	52	51								
9	71	60	53	49	69	59	53	49	58	53	49	57	52	49	57	52	48	47								
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	43								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16724	16724	16724	16724
5°	16709	16834	16844	16693
10°	16781	17060	17063	16744
15°	16913	17362	17340	16837
20°	17041	17652	17570	16885
25°	16988	17733	17541	16695
30°	16428	17327	16953	15963
35°	14778	16161	15460	13861
40°	10342	12558	11219	9003
45°	4926	7025	5734	3717
50°	1002	1886	1069	475
55°	48	69	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: 7025 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	6.6
10°-20°	153.2	19.5
20°-30°	234.6	29.8
30°-40°	244.1	31.1
40°-50°	98.6	12.5
50°-60°	3.4	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°	440.0	56.0
0°-40°	684.1	87.0
0°-60°	786.0	100.0
0°-90°	786.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	786.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	548	548	548	548	548	
5°	545	549	550	545	545	52
15°	535	549	549	533	535	151
25°	504	526	521	496	504	231
35°	396	434	415	372	396	238
45°	114	163	133	86	114	92
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°	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8
0.5°	547.6	547.3	547.6	547.7	547.8	548.3	548.5	548.5	548.0	547.7	547.6
1°	547.3	547.3	547.6	547.8	548.0	548.6	548.8	548.7	548.2	547.8	547.4
1.5°	547.1	547.1	547.6	547.9	548.2	548.8	549.2	549.0	548.4	547.8	547.4
2°	546.9	547.0	547.4	548.0	548.4	549.0	549.4	549.3	548.5	547.9	547.4
2.5°	546.7	546.8	547.4	548.1	548.5	549.3	549.7	549.5	548.7	548.0	547.3
3°	546.4	546.7	547.3	548.1	548.6	549.6	549.9	549.8	548.9	548.1	547.2
3.5°	546.2	546.5	547.3	548.1	548.8	549.7	550.1	550.0	549.2	548.1	547.1
4°	545.8	546.3	547.1	548.2	548.9	549.9	550.4	550.2	549.4	548.1	547.1
4.5°	545.5	546.1	547.0	548.2	549.0	550.2	550.6	550.4	549.5	548.2	546.9
5°	545.2	545.8	546.9	548.2	549.3	550.4	550.9	550.8	549.6	548.2	546.8
5.5°	544.9	545.5	546.8	548.3	549.4	550.6	551.2	551.0	549.8	548.2	546.7
6°	544.6	545.3	546.7	548.3	549.5	550.9	551.4	551.1	549.9	548.3	546.6
6.5°	544.2	545.0	546.5	548.3	549.7	551.1	551.6	551.3	550.0	548.3	546.5
7°	543.9	544.7	546.4	548.3	549.8	551.2	551.8	551.5	550.1	548.2	546.3
7.5°	543.5	544.4	546.3	548.4	549.9	551.4	552.0	551.7	550.2	548.2	546.2
8°	543.1	544.0	546.1	548.3	550.0	551.6	552.2	551.8	550.3	548.3	546.0
8.5°	542.6	543.6	545.8	548.4	550.1	551.7	552.4	552.0	550.3	548.2	545.7
9°	542.2	543.3	545.6	548.3	550.2	551.8	552.6	552.1	550.4	548.1	545.6
9.5°	541.7	542.9	545.4	548.3	550.2	551.9	552.7	552.2	550.4	548.1	545.3
10°	541.3	542.4	545.2	548.2	550.3	552.0	552.8	552.4	550.4	548.0	545.1
10.5°	540.7	542.0	545.0	548.2	550.3	552.1	552.9	552.4	550.4	547.9	544.8
11°	540.2	541.6	544.7	548.1	550.3	552.2	553.0	552.5	550.3	547.7	544.5
11.5°	539.7	541.1	544.4	548.0	550.3	552.2	553.0	552.5	550.3	547.4	544.1
12°	539.1	540.5	544.1	547.9	550.3	552.2	553.1	552.5	550.2	547.2	543.7
12.5°	538.5	540.1	543.8	547.8	550.2	552.2	553.1	552.4	550.0	547.0	543.4
13°	537.9	539.5	543.4	547.6	550.1	552.2	553.0	552.4	549.9	546.7	542.9
13.5°	537.2	538.9	543.1	547.3	549.9	552.2	552.9	552.2	549.7	546.3	542.4
14°	536.5	538.4	542.6	547.1	549.7	552.0	552.8	552.1	549.4	546.0	541.8
14.5°	535.8	537.7	542.2	546.8	549.6	551.9	552.7	551.9	549.0	545.5	541.3
15°	535.1	537.1	541.7	546.5	549.3	551.7	552.5	551.7	548.6	545.0	540.6
15.5°	534.2	536.5	541.2	546.1	549.0	551.5	552.1	551.4	548.2	544.5	539.9
16°	533.4	535.7	540.6	545.6	548.6	551.2	551.8	551.0	547.7	543.8	539.1
16.5°	532.5	535.0	540.0	545.2	548.2	550.8	551.5	550.5	547.1	543.1	538.3
17°	531.6	534.1	539.3	544.6	547.8	550.3	551.0	549.9	546.5	542.3	537.3
17.5°	530.5	533.3	538.6	543.9	547.2	549.8	550.4	549.4	545.8	541.5	536.3
18°	529.4	532.4	537.7	543.2	546.6	549.2	549.9	548.6	545.0	540.5	535.1
18.5°	528.4	531.3	537.0	542.4	546.0	548.4	549.2	547.8	544.1	539.5	533.9
19°	527.1	530.4	536.0	541.6	545.1	547.6	548.4	546.9	543.1	538.3	532.6
19.5°	525.8	529.2	535.0	540.5	544.2	546.7	547.6	545.8	542.0	537.0	531.1
20°	524.5	528.0	533.9	539.5	543.3	545.7	546.5	544.8	540.8	535.6	529.5
20.5°	523.0	526.8	532.6	538.3	542.2	544.6	545.4	543.5	539.5	534.1	527.8
21°	521.4	525.4	531.3	537.0	540.9	543.3	544.1	542.2	538.1	532.4	526.1



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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°	516.1	520.7	526.7	532.4	536.8	538.7	539.5	537.2	532.7	526.8	519.8
23°	514.1	518.9	524.8	530.6	535.1	536.9	537.6	535.3	530.7	524.5	517.5
23.5°	511.8	517.0	522.9	528.6	533.1	534.9	535.6	533.1	528.5	522.1	515.0
24°	509.5	514.8	520.8	526.6	531.2	532.7	533.5	530.8	526.1	519.6	512.4
24.5°	507.0	512.7	518.6	524.2	529.1	530.4	530.9	528.4	523.5	516.8	509.5
25°	504.3	510.2	516.2	521.8	526.4	527.9	528.5	525.7	520.7	514.0	506.5
25.5°	501.5	507.7	513.5	519.2	524.0	525.2	525.6	522.8	517.7	510.9	503.4
26°	498.4	504.8	510.8	516.4	521.3	522.3	522.6	519.7	514.5	507.6	500.0
26.5°	495.2	501.9	507.9	513.4	518.3	519.0	519.3	516.4	511.1	504.1	496.4
27°	491.7	498.6	504.7	510.3	514.9	515.7	515.8	512.9	507.5	500.4	492.6
27.5°	488.0	495.3	501.3	507.0	511.7	512.2	512.2	509.2	503.6	496.5	488.5
28°	484.0	491.6	497.7	503.4	508.1	508.2	508.3	505.1	499.6	492.3	484.3
28.5°	479.9	487.6	493.9	499.8	504.3	504.2	504.1	500.9	495.2	487.9	480.0
29°	475.4	483.5	489.9	495.8	500.2	499.9	499.8	496.4	490.7	483.4	475.3
29.5°	470.9	479.2	485.7	491.7	496.1	495.3	495.1	491.7	485.9	478.6	470.4
30°	466.0	474.5	481.2	487.4	491.5	490.5	490.2	486.8	480.9	473.7	465.2
30.5°	461.0	469.6	476.6	482.8	486.9	485.5	485.1	481.6	475.7	468.4	459.9
31°	455.4	464.3	471.6	477.9	481.9	480.1	479.5	476.0	470.3	462.9	454.2
31.5°	449.7	458.9	466.5	472.9	476.7	474.6	474.0	470.3	464.6	457.1	448.1
32°	443.6	452.9	460.9	467.8	471.3	468.9	467.7	464.2	458.5	451.2	441.6
32.5°	437.1	446.5	454.9	462.2	465.9	462.6	461.2	457.7	452.1	444.9	434.4
33°	430.0	439.8	448.6	456.4	459.8	456.1	454.5	450.8	445.5	438.2	427.2
33.5°	422.6	432.4	441.8	450.3	453.7	449.4	447.2	443.6	438.7	431.1	419.4
34°	414.4	425.0	435.0	443.9	447.3	442.3	439.7	435.9	431.3	423.6	411.1
34.5°	405.8	416.7	427.3	437.2	440.6	434.7	431.5	427.8	423.4	415.2	402.0
35°	396.5	407.8	419.4	429.9	433.6	426.4	422.6	419.1	414.8	406.0	391.6
35.5°	386.9	398.1	410.7	422.0	425.8	417.3	413.3	409.6	405.4	395.6	380.6
36°	376.3	387.7	401.6	413.3	417.6	407.9	403.5	399.5	395.2	384.8	368.9
36.5°	364.0	376.5	391.4	403.5	408.5	397.3	393.0	388.9	384.1	372.7	355.9
37°	349.8	363.5	380.2	393.4	398.3	386.9	382.3	377.8	372.1	359.7	342.2
37.5°	334.5	349.0	368.1	382.1	387.6	375.3	371.2	366.4	358.6	345.0	327.5
38°	319.4	334.3	355.3	370.9	376.3	363.3	360.0	354.4	343.9	329.3	312.8
38.5°	303.8	319.9	341.8	357.8	364.0	350.3	348.3	342.0	328.4	313.3	297.3
39°	288.9	306.3	327.6	344.8	349.0	337.1	335.9	328.9	312.5	296.6	281.2
39.5°	274.2	292.3	312.7	330.3	332.1	322.8	322.1	315.0	296.6	280.2	264.8
40°	259.5	278.7	297.3	315.6	315.1	308.0	308.4	300.3	281.5	264.0	248.5
40.5°	244.2	263.6	282.1	299.2	298.9	292.3	295.1	285.5	266.7	248.0	231.1
41°	228.8	248.0	266.7	282.5	284.1	277.0	280.4	270.4	251.8	232.4	214.3
41.5°	213.8	231.8	251.0	265.8	269.4	261.0	265.4	254.6	236.7	216.5	197.9
42°	198.6	216.4	235.4	248.7	254.4	246.1	249.9	238.9	221.0	200.9	182.8
42.5°	184.0	201.3	219.7	231.6	239.2	231.0	234.0	223.3	205.9	185.2	166.6
43°	169.9	186.2	203.8	215.2	222.9	216.1	217.5	207.3	190.3	169.4	151.9
43.5°	155.5	171.5	187.5	198.6	207.0	200.9	201.6	191.7	175.7	154.5	137.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	114.1	127.1	138.9	152.9	162.7	155.3	153.0	146.7	132.8	115.2	98.8
45.5°	100.6	112.9	124.0	138.4	148.3	140.7	138.2	131.8	119.3	103.1	86.6
46°	88.4	99.4	110.0	125.2	134.1	126.4	123.0	117.6	106.5	91.0	74.3
46.5°	76.3	86.4	96.8	112.0	119.6	113.4	110.4	104.7	93.7	79.0	62.2
47°	64.9	74.1	84.3	99.5	107.3	100.3	97.9	91.9	80.9	66.8	52.7
47.5°	54.3	62.2	73.0	87.3	94.9	87.2	85.3	79.1	68.1	56.4	44.0
48°	44.9	51.5	62.4	75.4	82.5	74.1	72.7	66.2	57.1	46.8	36.4
48.5°	36.5	41.9	52.8	64.4	70.1	61.0	60.1	55.3	47.0	38.1	29.4
49°	31.3	34.1	44.2	54.4	59.5	49.8	50.3	45.0	37.7	30.2	23.6
49.5°	26.2	28.8	36.2	45.3	49.1	40.3	40.7	36.0	29.6	23.3	18.3
50°	21.1	23.5	30.9	37.0	39.7	32.0	32.0	28.1	22.5	19.4	15.1
50.5°	15.9	18.1	25.7	31.3	31.0	24.5	24.5	21.1	18.6	15.4	12.0
51°	10.9	12.9	20.5	25.8	23.5	20.3	20.1	17.4	14.6	11.4	8.8
51.5°	7.9	9.7	15.2	20.3	19.4	15.9	15.9	13.6	10.7	7.4	5.7
52°	5.4	6.9	10.0	14.7	15.4	11.6	11.5	9.9	6.7	3.3	2.6
52.5°	3.4	4.6	6.8	9.2	11.2	7.4	7.1	6.2	2.9	2.1	1.7
53°	2.9	3.9	4.3	5.9	7.1	3.2	2.9	2.3	1.9	1.6	1.4
53.5°	2.2	3.2	3.5	3.4	3.2	2.0	1.9	1.7	1.5	1.3	1.1
54°	1.6	2.5	2.7	2.8	2.0	1.6	1.5	1.4	1.2	1.0	0.9
54.5°	1.1	1.7	1.9	2.1	1.6	1.3	1.2	1.1	0.9	0.7	0.6
55°	0.9	1.0	1.2	1.6	1.3	1.0	1.0	0.9	0.7	0.6	0.5
55.5°	0.6	0.7	0.9	1.0	1.0	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: P775884

CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-1000lm-5000K

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: P775884
CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-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: P775884

CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	547.8	547.8	547.8	547.8	547.8	547.8
0.5°	547.4	547.3	547.8	548.0	548.0	547.6
1°	547.3	547.1	547.4	547.7	547.7	547.3
1.5°	547.1	546.8	547.1	547.3	547.3	547.1
2°	546.9	546.6	546.8	547.0	547.0	546.9
2.5°	546.8	546.3	546.6	546.7	546.8	546.7
3°	546.6	546.1	546.3	546.4	546.4	546.4
3.5°	546.3	545.7	545.8	546.1	546.1	546.2
4°	546.2	545.4	545.5	545.7	545.7	545.8
4.5°	545.8	545.0	545.2	545.4	545.4	545.5
5°	545.6	544.7	544.8	545.0	545.2	545.2
5.5°	545.3	544.4	544.5	544.7	544.8	544.9
6°	545.1	543.9	544.0	544.4	544.5	544.6
6.5°	544.8	543.5	543.7	543.9	544.1	544.2
7°	544.4	543.1	543.3	543.6	543.8	543.9
7.5°	544.0	542.6	542.9	543.2	543.4	543.5
8°	543.7	542.2	542.4	542.9	543.1	543.1
8.5°	543.3	541.7	541.9	542.4	542.6	542.6
9°	542.9	541.2	541.5	542.0	542.2	542.2
9.5°	542.5	540.6	540.9	541.6	541.8	541.7
10°	542.0	540.1	540.4	541.2	541.4	541.3
10.5°	541.6	539.5	539.9	540.6	540.8	540.7
11°	541.1	538.9	539.3	540.2	540.4	540.2
11.5°	540.5	538.2	538.7	539.7	539.9	539.7
12°	540.0	537.5	538.1	539.1	539.3	539.1
12.5°	539.3	536.9	537.3	538.5	538.8	538.5
13°	538.7	536.1	536.6	537.9	538.2	537.9
13.5°	538.0	535.4	535.9	537.2	537.4	537.2
14°	537.3	534.5	535.1	536.5	536.8	536.5
14.5°	536.5	533.7	534.2	535.6	536.0	535.8
15°	535.7	532.7	533.4	534.8	535.2	535.1
15.5°	534.9	531.8	532.3	533.9	534.3	534.2
16°	533.8	530.7	531.3	532.8	533.4	533.4
16.5°	532.8	529.6	530.3	531.8	532.4	532.5
17°	531.8	528.5	529.0	530.6	531.3	531.6
17.5°	530.6	527.2	527.8	529.3	530.2	530.5
18°	529.3	525.8	526.4	527.9	528.9	529.4
18.5°	527.9	524.5	525.1	526.4	527.5	528.4
19°	526.6	523.0	523.6	524.8	526.1	527.1
19.5°	525.1	521.3	522.0	523.1	524.5	525.8
20°	523.4	519.7	520.3	521.3	522.8	524.5
20.5°	521.6	517.9	518.4	519.4	521.0	523.0
21°	519.7	516.0	516.5	517.3	519.2	521.4



TEST NUMBER: P775884

CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	513.4	509.5	509.9	510.2	512.6	516.1
23°	511.1	507.0	507.5	507.6	510.1	514.1
23.5°	508.4	504.5	504.8	504.9	507.5	511.8
24°	505.8	501.7	502.1	502.0	504.7	509.5
24.5°	502.9	498.7	499.2	498.9	501.8	507.0
25°	499.8	495.6	496.1	495.6	498.7	504.3
25.5°	496.6	492.3	492.6	492.3	495.4	501.5
26°	493.1	488.9	489.1	488.7	492.1	498.4
26.5°	489.5	485.2	485.5	485.1	488.5	495.2
27°	485.6	481.1	481.7	481.1	484.8	491.7
27.5°	481.5	477.0	477.6	477.1	480.7	488.0
28°	477.1	472.6	473.4	472.6	476.6	484.0
28.5°	472.5	467.9	468.9	468.3	472.1	479.9
29°	467.8	463.1	464.2	463.5	467.5	475.4
29.5°	462.8	458.0	459.4	458.9	462.9	470.9
30°	457.5	452.8	454.2	453.7	458.0	466.0
30.5°	451.7	446.9	448.9	448.7	452.9	461.0
31°	445.4	440.9	443.2	443.1	447.4	455.4
31.5°	438.8	434.2	437.1	437.3	441.6	449.7
32°	431.8	427.3	430.4	430.7	435.2	443.6
32.5°	424.1	419.6	423.5	423.9	428.4	437.1
33°	416.3	411.6	415.8	416.4	421.1	430.0
33.5°	407.6	403.0	408.2	409.1	413.9	422.6
34°	398.6	393.4	400.0	401.1	406.0	414.4
34.5°	388.8	383.2	391.2	392.2	397.4	405.8
35°	378.0	371.9	381.6	382.5	388.1	396.5
35.5°	365.9	359.4	370.6	372.1	377.8	386.9
36°	353.1	345.5	358.3	360.2	366.6	376.3
36.5°	338.7	331.0	344.6	347.2	353.9	364.0
37°	324.2	317.0	329.5	333.1	339.9	349.8
37.5°	309.0	303.3	313.3	318.3	324.6	334.5
38°	294.6	289.2	296.9	302.6	309.2	319.4
38.5°	279.7	275.3	281.3	286.8	293.5	303.8
39°	265.5	259.0	266.3	269.9	277.6	288.9
39.5°	250.7	242.5	251.9	253.8	261.5	274.2
40°	235.6	225.9	236.9	237.6	245.0	259.5
40.5°	219.8	211.5	221.2	221.3	229.3	244.2
41°	203.6	197.2	205.8	205.1	214.1	228.8
41.5°	187.3	183.4	190.6	188.9	198.8	213.8
42°	171.6	168.8	175.9	173.7	183.7	198.6
42.5°	155.9	154.1	161.6	159.2	168.2	184.0
43°	140.4	139.6	147.8	145.1	153.5	169.9
43.5°	125.6	125.2	134.0	131.6	139.2	155.5



TEST NUMBER: P775884

CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	87.3	86.1	94.8	94.5	100.6	114.1
45.5°	74.5	73.9	82.8	83.8	89.0	100.6
46°	61.7	61.7	71.9	73.8	78.4	88.4
46.5°	51.8	51.0	61.7	64.3	68.4	76.3
47°	43.2	41.0	52.2	55.5	59.1	64.9
47.5°	35.4	35.4	43.5	47.3	50.5	54.3
48°	28.8	29.9	35.7	40.2	42.8	44.9
48.5°	22.9	24.3	30.3	34.6	35.6	36.5
49°	18.1	18.8	24.9	29.2	30.3	31.3
49.5°	15.0	13.2	19.7	23.9	24.9	26.2
50°	12.0	10.0	14.4	18.4	19.5	21.1
50.5°	9.1	7.4	10.7	13.0	14.3	15.9
51°	6.1	5.1	7.8	9.5	10.4	10.9
51.5°	3.1	3.2	5.2	6.4	7.2	7.9
52°	2.0	2.6	3.3	3.9	4.7	5.4
52.5°	1.5	2.0	2.7	3.2	3.9	3.4
53°	1.3	1.6	2.1	2.5	3.2	2.9
53.5°	1.0	1.1	1.6	1.8	2.5	2.2
54°	0.7	0.9	1.1	1.1	1.7	1.6
54.5°	0.6	0.6	0.9	0.9	1.0	1.1
55°	0.5	0.5	0.6	0.6	0.7	0.9
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: P775884

CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-1000lm-5000K

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: P775884
CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-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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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°

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21.5°	519.8	524.0	530.0	535.6	539.7	541.9	542.8	540.6	536.5	530.7	524.2
22°	518.0	522.4	528.4	534.0	538.4	540.4	541.2	539.0	534.7	528.8	522.2



44°	141.4	156.9	170.9	182.9	191.7	185.6	184.8	176.8	161.3	140.4	123.2
44.5°	127.5	142.0	154.5	167.4	176.8	170.4	169.3	161.6	147.2	127.3	111.0



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°	517.8	514.0	514.5	515.1	517.1	519.8
22°	515.7	511.8	512.3	512.8	514.9	518.0



44°	112.8	111.5	120.7	118.2	125.6	141.4
44.5°	100.1	98.7	107.4	106.0	112.8	127.5

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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)