

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: P775811

Luminaire Tested: HCDJBL510CSD-HCD6TSQMW-1000lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775811
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-HCD6TSQMW-1000lm-3000K
Description: 6 INCH SQUARE MEDIUM MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

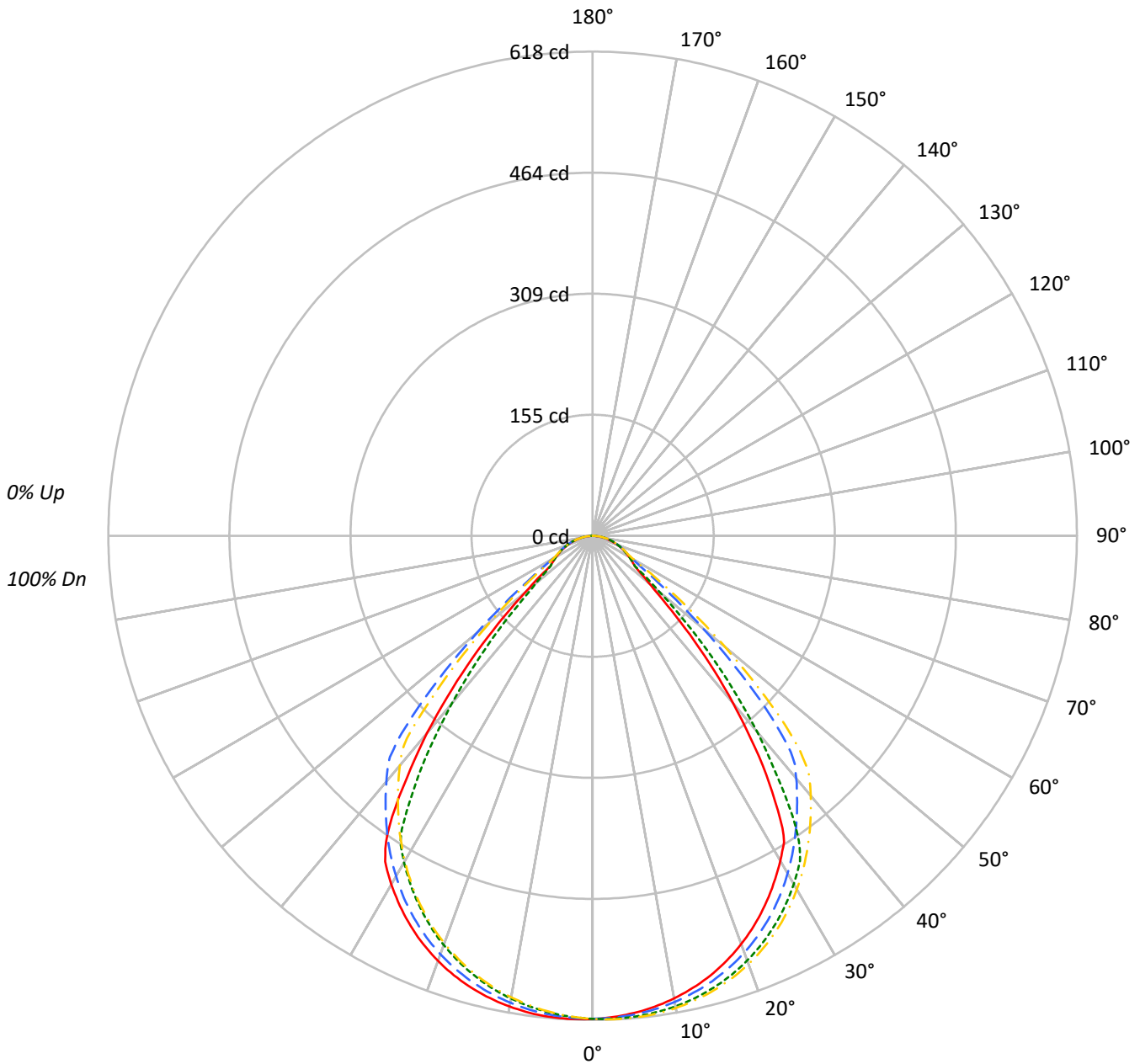
Lumens per Lamp: N/A
Luminaire Lumens: 1081.9 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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



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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								
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89								
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79								
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70								
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63								
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57								
6	78	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51								
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46								
8	69	57	50	45	67	57	49	45	55	49	44	54	48	44	53	48	44	42								
9	65	53	46	41	63	52	46	41	51	45	41	50	45	40	49	44	40	39								
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	26548	26548	26548	26548
5°	26420	26628	26645	26425
10°	26214	26660	26678	26223
15°	25893	26611	26624	25920
20°	25411	26433	26447	25466
25°	24718	26086	26105	24803
30°	23809	25524	25544	23929
35°	20993	23674	23752	21067
40°	15642	18351	18458	15692
45°	10181	12574	12653	10236
50°	6276	7489	7569	6316
55°	4842	4857	4857	4842
60°	4650	4633	4633	4650
65°	4432	4472	4432	4493
70°	4205	4330	4230	4356
75°	3893	4192	3993	4175
80°	3347	4017	3620	3868
85°	1877	3606	2717	3112

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°
 Vertical Angle: 45°
 Luminance: 21732 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	5.4
10°-20°	166.2	15.4
20°-30°	246.7	22.8
30°-40°	272.8	25.2
40°-50°	184.9	17.1
50°-60°	75.4	7.0
60°-70°	44.5	4.1
70°-80°	26.3	2.4
80°-90°	6.9	0.6
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°	471.2	43.6
0°-40°	744.0	68.8
0°-60°	1004.2	92.8
0°-90°	1081.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1081.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	617	617	617	617	617	
5°	611	616	616	611	611	58
15°	581	597	597	582	581	164
25°	520	549	550	522	520	239
35°	399	450	452	401	399	244
45°	167	206	208	168	167	132
55°	64	65	65	64	64	61
65°	44	44	44	44	44	43
75°	23	25	24	25	23	25
85°	4	7	6	6	4	5
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°	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6
0.5°	616.6	616.4	616.4	616.6	616.7	616.8	617.0	617.1	617.1	616.7	616.4
1°	616.2	616.2	616.2	616.6	616.9	617.0	617.3	617.3	617.2	616.7	616.4
1.5°	615.8	615.9	616.1	616.5	617.0	617.2	617.5	617.5	617.3	616.8	616.2
2°	615.4	615.6	615.9	616.4	617.0	617.2	617.6	617.6	617.4	616.7	616.1
2.5°	614.9	615.1	615.6	616.3	617.0	617.3	617.7	617.7	617.4	616.6	615.8
3°	614.3	614.6	615.2	616.1	616.9	617.3	617.7	617.7	617.3	616.5	615.5
3.5°	613.7	614.1	614.8	615.8	616.8	617.2	617.7	617.6	617.2	616.3	615.2
4°	612.9	613.5	614.4	615.5	616.6	617.1	617.6	617.5	617.0	616.0	614.8
4.5°	612.1	612.8	613.9	615.1	616.4	617.0	617.4	617.4	616.8	615.7	614.4
5°	611.3	612.1	613.3	614.6	616.1	616.8	617.2	617.2	616.5	615.3	613.9
5.5°	610.5	611.4	612.6	614.2	615.7	616.5	617.0	616.9	616.2	614.9	613.3
6°	609.5	610.5	611.9	613.6	615.3	616.2	616.7	616.6	615.8	614.4	612.6
6.5°	608.6	609.7	611.1	612.9	614.9	615.8	616.3	616.2	615.3	613.8	611.9
7°	607.4	608.7	610.3	612.2	614.4	615.4	615.9	615.7	614.8	613.0	611.1
7.5°	606.3	607.7	609.5	611.5	613.7	614.9	615.4	615.2	614.2	612.3	610.3
8°	605.1	606.6	608.6	610.7	613.0	614.3	614.9	614.6	613.5	611.6	609.5
8.5°	603.8	605.5	607.5	609.9	612.3	613.6	614.3	614.0	612.7	610.8	608.5
9°	602.4	604.2	606.4	608.9	611.5	612.9	613.6	613.1	611.9	609.9	607.4
9.5°	601.1	602.9	605.3	607.9	610.7	612.1	612.8	612.4	611.1	609.0	606.3
10°	599.6	601.6	604.2	606.8	609.8	611.3	612.0	611.5	610.2	608.0	605.2
10.5°	598.0	600.2	602.8	605.7	608.9	610.4	611.1	610.7	609.2	606.9	604.0
11°	596.4	598.7	601.6	604.6	607.7	609.5	610.2	609.7	608.1	605.7	602.7
11.5°	594.7	597.1	600.2	603.4	606.6	608.4	609.2	608.7	607.0	604.5	601.4
12°	592.9	595.5	598.8	602.0	605.5	607.3	608.1	607.5	605.9	603.3	600.0
12.5°	591.1	593.9	597.2	600.7	604.3	606.1	606.9	606.4	604.6	601.9	598.6
13°	589.3	592.1	595.6	599.2	602.9	604.9	605.7	605.1	603.4	600.5	597.0
13.5°	587.3	590.3	594.0	597.6	601.5	603.7	604.5	603.8	601.9	599.1	595.4
14°	585.3	588.4	592.3	596.1	600.1	602.2	603.2	602.4	600.5	597.4	593.8
14.5°	583.2	586.4	590.5	594.5	598.6	600.8	601.7	601.0	599.0	595.9	591.9
15°	580.9	584.4	588.7	592.7	597.0	599.4	600.3	599.5	597.3	594.2	590.2
15.5°	578.7	582.2	586.6	590.9	595.4	597.7	598.8	597.8	595.7	592.4	588.4
16°	576.3	580.0	584.7	589.1	593.7	596.0	597.1	596.2	593.9	590.6	586.3
16.5°	573.9	577.7	582.6	587.2	591.8	594.4	595.5	594.6	592.1	588.8	584.4
17°	571.3	575.4	580.6	585.2	589.9	592.5	593.8	592.7	590.2	586.7	582.2
17.5°	568.8	573.0	578.4	583.1	588.1	590.7	591.9	590.8	588.3	584.7	580.1
18°	566.0	570.4	576.0	580.9	585.9	588.8	590.1	588.9	586.2	582.5	577.8
18.5°	563.4	567.9	573.6	578.7	583.9	586.8	588.1	586.8	584.1	580.4	575.6
19°	560.5	565.2	571.2	576.4	581.6	584.7	586.0	584.7	581.8	578.1	573.1
19.5°	557.5	562.4	568.7	574.0	579.3	582.5	584.0	582.5	579.6	575.8	570.7
20°	554.6	559.7	566.1	571.5	576.9	580.2	581.7	580.3	577.2	573.4	568.3
20.5°	551.5	556.6	563.5	568.9	574.6	577.8	579.5	578.0	574.8	570.9	565.6
21°	548.4	553.7	560.7	566.2	571.9	575.4	577.1	575.5	572.3	568.3	563.0



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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°	538.4	544.2	551.9	558.0	564.0	567.7	569.6	567.9	564.4	560.3	554.5
23°	534.9	540.9	548.9	555.0	561.1	565.0	566.9	565.2	561.5	557.2	551.4
23.5°	531.4	537.6	545.7	551.9	558.3	562.2	564.3	562.4	558.7	554.3	548.4
24°	527.9	534.2	542.5	548.9	555.2	559.4	561.4	559.6	555.6	551.3	545.2
24.5°	524.1	530.6	539.2	545.7	552.1	556.4	558.5	556.6	552.5	548.3	542.0
25°	520.3	527.0	535.8	542.4	549.1	553.4	555.5	553.6	549.5	545.1	538.7
25.5°	516.4	523.3	532.3	539.1	545.8	550.3	552.5	550.5	546.2	541.8	535.4
26°	512.6	519.6	528.8	535.7	542.4	547.0	549.4	547.2	543.0	538.5	532.0
26.5°	508.6	515.8	525.1	532.2	539.1	543.8	546.1	544.0	539.5	535.1	528.5
27°	504.5	511.9	521.4	528.8	535.6	540.4	542.8	540.6	536.1	531.6	524.8
27.5°	500.3	507.8	517.7	525.2	532.1	537.0	539.5	537.2	532.7	528.2	521.3
28°	496.1	503.8	513.8	521.5	528.4	533.5	535.9	533.7	529.0	524.4	517.5
28.5°	491.9	499.7	509.8	517.7	524.8	529.9	532.3	530.2	525.2	520.8	513.7
29°	487.7	495.6	506.0	513.9	521.0	526.2	528.7	526.4	521.5	516.9	509.7
29.5°	483.3	491.3	501.8	510.0	517.2	522.6	525.1	522.8	517.8	513.4	505.7
30°	478.9	487.3	497.7	506.0	513.4	518.7	521.2	519.0	513.8	509.2	501.7
30.5°	474.4	482.9	493.5	502.0	509.3	514.9	517.4	515.2	509.7	505.3	497.7
31°	469.9	478.5	489.2	498.0	505.1	511.0	513.5	511.1	505.6	501.1	493.5
31.5°	465.4	474.0	484.8	493.8	501.0	507.0	509.5	507.1	501.5	497.0	489.2
32°	461.0	469.5	480.4	489.6	496.5	502.9	505.3	503.2	497.2	493.0	484.9
32.5°	453.2	464.9	475.9	485.3	492.3	498.8	501.3	499.0	492.8	488.7	480.6
33°	445.0	460.3	471.5	480.9	486.0	494.5	497.0	494.7	486.0	484.3	476.1
33.5°	434.2	455.8	466.8	476.4	478.8	490.2	492.8	490.4	479.1	480.1	471.6
34°	422.6	451.4	462.3	471.7	470.5	485.6	488.3	486.0	471.0	475.4	467.1
34.5°	410.7	443.9	457.6	467.3	461.1	481.1	484.0	481.1	461.9	470.5	462.6
35°	399.4	435.7	452.9	460.6	450.4	476.0	479.6	475.8	451.9	464.3	457.9
35.5°	388.2	425.6	448.1	453.5	439.1	468.3	475.1	468.3	440.5	457.3	453.2
36°	376.9	414.3	443.4	445.6	426.4	461.3	470.5	461.5	428.1	449.8	448.5
36.5°	365.1	403.2	438.5	436.4	413.8	452.4	466.0	453.0	415.6	440.9	443.8
37°	352.6	392.1	433.7	426.4	400.2	442.4	461.4	443.5	402.7	431.1	438.8
37.5°	339.9	380.9	428.8	415.6	387.5	431.6	456.6	433.3	389.6	420.8	434.0
38°	327.2	369.7	423.9	403.8	374.8	420.0	452.0	422.1	377.2	409.3	429.2
38.5°	314.6	358.5	419.1	391.6	362.9	407.9	447.2	410.2	364.9	397.4	424.4
39°	302.3	346.9	414.1	379.5	350.7	395.3	442.6	397.9	352.8	385.1	419.4
39.5°	290.3	334.8	409.3	367.4	338.8	382.4	437.7	385.5	340.8	372.9	414.5
40°	278.3	322.2	404.2	355.1	326.5	370.0	433.0	373.2	328.4	360.7	409.6
40.5°	266.9	309.8	399.2	343.6	314.0	358.1	428.0	361.3	316.0	348.9	404.7
41°	255.2	297.9	394.2	332.2	301.2	346.5	423.1	349.3	303.0	337.4	399.6
41.5°	243.6	286.0	389.5	320.8	288.5	334.7	417.9	337.7	290.4	326.1	394.4
42°	231.9	274.3	382.2	309.5	276.1	323.0	412.7	326.1	277.8	314.6	389.1
42.5°	220.5	263.4	374.4	298.0	264.0	311.2	407.7	314.3	265.6	302.9	383.0
43°	208.9	252.0	363.8	286.0	252.3	299.0	398.6	302.2	253.7	291.1	372.5
43.5°	198.2	240.8	352.2	274.4	240.6	286.9	389.6	289.8	242.1	279.0	363.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	167.2	207.1	313.4	240.1	206.5	251.2	356.9	254.0	207.8	244.3	324.5
45.5°	157.4	196.3	300.4	229.3	195.1	239.9	343.9	242.3	196.8	233.2	310.9
46°	148.0	185.7	286.6	218.6	184.1	228.6	329.9	231.1	185.8	222.4	297.0
46.5°	139.2	175.7	272.8	207.9	173.6	217.3	315.7	220.0	175.2	211.8	283.1
47°	130.5	165.5	259.0	197.4	163.4	206.3	301.1	208.8	165.1	201.2	269.3
47.5°	122.5	156.0	245.3	187.0	153.6	195.5	286.3	197.9	155.3	190.8	255.8
48°	115.3	146.7	231.9	176.8	144.5	184.9	272.2	187.4	146.0	180.8	242.3
48.5°	109.0	137.7	219.3	167.0	135.6	174.5	258.2	176.7	137.0	170.7	229.2
49°	103.3	129.1	207.3	157.5	127.2	164.1	245.2	166.5	128.5	161.2	216.6
49.5°	98.3	121.2	195.5	148.4	119.3	154.4	232.4	156.7	120.6	151.7	204.3
50°	93.7	113.7	183.9	139.3	111.8	144.9	220.0	147.2	113.0	142.7	192.6
50.5°	89.8	106.9	173.2	130.7	104.9	135.9	207.8	137.9	105.9	134.0	181.4
51°	86.0	100.8	162.8	122.6	98.5	127.4	196.0	129.4	99.5	125.9	170.3
51.5°	82.4	95.7	152.8	115.1	93.5	119.3	184.3	121.2	94.3	118.0	160.1
52°	78.8	91.0	143.1	107.8	88.4	111.7	173.2	113.3	89.0	110.8	150.2
52.5°	75.3	86.9	134.2	101.0	83.4	104.5	162.0	106.0	83.8	103.7	140.7
53°	71.8	83.0	125.6	94.7	78.3	98.0	151.4	99.1	78.5	97.0	131.8
53.5°	69.1	79.5	117.5	88.8	73.3	92.8	141.3	93.7	73.3	91.6	123.2
54°	66.9	76.0	110.1	83.5	69.3	87.5	132.3	88.2	69.3	86.2	115.4
54.5°	65.6	72.6	103.0	78.6	66.3	82.2	123.1	82.8	66.2	80.8	108.0
55°	64.5	69.1	96.6	74.0	64.7	76.9	114.9	77.4	64.7	75.4	101.3
55.5°	63.4	66.2	90.6	69.7	63.5	71.7	106.9	72.0	63.4	70.9	95.0
56°	62.2	63.9	85.3	65.8	62.3	67.5	99.8	67.7	62.2	66.9	90.0
56.5°	61.2	62.5	80.3	62.9	61.2	64.1	94.1	64.2	61.1	63.9	85.0
57°	60.2	61.4	75.8	61.4	60.1	61.9	88.2	61.8	60.1	62.1	80.0
57.5°	59.1	60.3	71.7	60.3	59.1	60.6	82.5	60.5	59.0	60.9	75.0
58°	58.1	59.3	68.4	59.2	57.9	59.5	76.7	59.4	57.9	59.8	71.0
58.5°	57.0	58.2	65.3	58.1	56.9	58.5	71.0	58.4	56.8	58.8	67.6
59°	56.0	57.1	62.5	57.0	55.9	57.3	67.0	57.3	55.8	57.6	64.7
59.5°	55.0	56.1	60.2	55.9	54.9	56.3	63.7	56.2	54.8	56.6	62.0
60°	54.0	55.1	58.2	54.9	53.8	55.3	60.8	55.2	53.8	55.6	59.7
60.5°	52.8	54.1	56.2	53.9	52.7	54.2	58.5	54.2	52.7	54.5	57.6
61°	51.8	53.1	54.5	52.7	51.8	53.2	56.2	53.2	51.6	53.5	55.8
61.5°	50.8	52.0	52.9	51.8	50.8	52.1	54.4	52.1	50.6	52.4	54.1
62°	49.8	51.0	51.5	50.8	49.8	51.2	52.6	51.1	49.6	51.4	52.5
62.5°	48.7	50.0	50.2	49.7	48.8	50.2	51.1	50.1	48.6	50.4	51.2
63°	47.6	49.0	49.1	48.7	47.7	49.2	49.8	49.0	47.4	49.3	49.9
63.5°	46.6	47.8	48.0	47.6	46.8	48.2	48.5	48.0	46.5	48.3	48.8
64°	45.6	46.8	46.8	46.6	45.8	47.1	47.4	46.9	45.5	47.2	47.7
64.5°	44.5	45.8	45.8	45.6	44.9	46.1	46.3	45.9	44.5	46.2	46.6
65°	43.5	44.8	44.8	44.7	43.9	45.2	45.3	44.9	43.5	45.2	45.6
65.5°	42.4	43.7	43.7	43.7	43.0	44.2	44.3	43.9	42.4	44.2	44.6
66°	41.4	42.6	42.6	42.6	41.9	43.2	43.2	42.8	41.4	43.2	43.5



TEST NUMBER: P775811

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMW-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	38.4	39.6	39.6	39.7	39.1	40.2	40.1	39.8	38.5	40.1	40.4
68°	37.3	38.6	38.6	38.7	38.2	39.3	39.1	38.8	37.4	39.0	39.4
68.5°	36.3	37.5	37.5	37.6	37.2	38.3	38.2	37.8	36.4	38.1	38.4
69°	35.3	36.5	36.5	37.1	36.3	37.3	37.1	36.8	35.5	37.0	37.3
69.5°	34.4	35.5	35.5	36.1	35.4	36.3	36.0	35.8	34.5	36.0	36.3
70°	33.4	34.5	34.5	35.1	34.4	35.4	35.1	34.8	33.6	35.0	35.3
70.5°	32.3	33.5	33.5	34.0	33.5	34.5	34.1	33.9	32.5	34.0	34.3
71°	31.4	32.5	32.4	33.0	32.5	33.5	33.1	32.9	31.6	33.0	33.3
71.5°	30.4	31.4	31.5	32.0	31.6	32.5	32.0	31.8	30.6	31.9	32.2
72°	29.4	30.5	30.5	31.0	30.7	31.5	31.0	30.9	29.7	31.0	31.2
72.5°	28.4	29.4	29.5	30.1	29.8	30.6	30.1	29.9	28.7	30.0	30.2
73°	27.3	28.5	28.5	29.1	28.9	29.7	29.1	28.9	27.7	29.0	29.2
73.5°	26.3	27.4	27.4	28.2	28.0	28.8	28.1	28.0	26.8	28.0	28.2
74°	25.3	26.4	26.4	27.1	27.0	27.7	27.1	26.9	25.8	27.0	27.1
74.5°	24.4	25.4	25.4	26.2	26.1	26.8	26.1	26.0	24.9	26.0	26.2
75°	23.4	24.4	24.5	25.3	25.2	25.9	25.2	25.0	24.0	25.0	25.2
75.5°	22.3	23.4	23.5	24.4	24.3	25.0	24.2	24.1	23.0	24.1	24.2
76°	21.4	22.3	22.4	23.4	23.4	24.1	23.2	23.1	22.0	23.1	23.2
76.5°	20.4	21.3	21.4	22.4	22.4	23.2	22.2	22.0	21.1	22.0	22.2
77°	19.4	20.3	20.4	21.5	21.6	22.2	21.3	21.1	20.2	21.1	21.2
77.5°	18.4	19.3	19.5	20.5	20.7	21.3	20.3	20.1	19.3	20.1	20.2
78°	17.4	18.3	18.5	19.6	19.8	20.3	19.4	19.2	18.4	19.1	19.3
78.5°	16.4	17.3	17.4	18.7	18.9	19.4	18.4	18.2	17.3	18.2	18.3
79°	15.4	16.3	16.5	17.6	18.0	18.5	17.4	17.2	16.4	17.1	17.2
79.5°	14.4	15.3	15.5	16.7	17.0	17.5	16.5	16.2	15.6	16.1	16.3
80°	13.5	14.3	14.5	15.7	16.2	16.6	15.5	15.3	14.6	15.2	15.3
80.5°	12.4	13.3	13.6	14.8	15.3	15.7	14.6	14.3	13.7	14.2	14.4
81°	11.5	12.2	12.5	13.9	14.4	14.7	13.7	13.4	12.8	13.3	13.4
81.5°	10.5	11.2	11.6	13.0	13.5	13.8	12.8	12.3	11.8	12.2	12.4
82°	9.6	10.3	10.6	12.0	12.7	12.9	11.8	11.4	10.9	11.2	11.4
82.5°	8.6	9.3	9.7	11.1	11.7	12.0	10.9	10.4	10.0	10.3	10.5
83°	7.7	8.3	8.8	10.2	10.9	11.1	10.1	9.5	9.1	9.3	9.6
83.5°	6.6	7.2	8.0	9.3	10.0	10.2	9.3	8.6	8.2	8.4	8.8
84°	5.7	6.2	7.0	8.4	9.1	9.3	8.5	7.5	7.2	7.3	8.0
84.5°	4.7	5.3	6.2	7.5	8.3	8.5	7.5	6.6	6.3	6.4	7.1
85°	3.8	4.3	5.5	6.6	7.3	7.5	6.7	5.7	5.5	5.4	6.3
85.5°	3.2	3.7	4.7	5.7	6.5	6.7	5.9	4.9	4.6	4.6	5.5
86°	2.6	3.1	4.0	4.9	5.6	5.8	5.2	4.2	3.7	3.8	4.7
86.5°	2.0	2.3	3.3	4.0	4.8	4.9	4.4	3.5	3.0	3.2	4.0
87°	1.4	1.7	2.4	3.2	3.9	4.1	3.7	2.9	2.4	2.6	3.2
87.5°	0.9	1.1	1.7	2.3	3.1	3.3	3.0	2.2	1.9	2.0	2.4
88°	0.4	0.6	1.0	1.5	2.2	2.4	2.2	1.7	1.5	1.5	1.7
88.5°	0.1	0.2	0.4	0.7	1.4	1.5	1.5	1.2	1.0	0.9	0.9



TEST NUMBER: P775811
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMW-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0



TEST NUMBER: P775811

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMW-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	616.6	616.6	616.6	616.6	616.6	616.6
0.5°	616.4	616.2	616.2	616.4	616.4	616.6
1°	616.2	615.9	615.8	616.0	616.0	616.2
1.5°	615.9	615.5	615.3	615.4	615.6	615.8
2°	615.6	615.0	614.8	614.9	615.1	615.4
2.5°	615.3	614.6	614.3	614.3	614.5	614.9
3°	614.9	614.1	613.6	613.6	613.9	614.3
3.5°	614.4	613.6	612.9	612.9	613.1	613.7
4°	613.9	612.8	612.2	612.1	612.3	612.9
4.5°	613.3	612.1	611.4	611.3	611.5	612.1
5°	612.6	611.4	610.5	610.4	610.7	611.3
5.5°	611.9	610.5	609.7	609.4	609.8	610.5
6°	611.2	609.5	608.8	608.5	608.8	609.5
6.5°	610.4	608.6	607.6	607.4	607.6	608.6
7°	609.5	607.5	606.5	606.2	606.5	607.4
7.5°	608.5	606.4	605.4	605.0	605.4	606.3
8°	607.4	605.2	604.2	603.8	604.1	605.1
8.5°	606.4	604.0	602.8	602.4	602.8	603.8
9°	605.2	602.6	601.4	601.0	601.4	602.4
9.5°	604.0	601.2	600.0	599.6	599.9	601.1
10°	602.7	599.8	598.5	598.0	598.5	599.6
10.5°	601.3	598.3	597.0	596.5	596.9	598.0
11°	599.9	596.7	595.3	594.9	595.2	596.4
11.5°	598.5	595.1	593.6	593.2	593.6	594.7
12°	596.9	593.4	591.9	591.3	591.7	592.9
12.5°	595.3	591.6	590.1	589.5	589.9	591.1
13°	593.6	589.7	588.2	587.5	587.8	589.3
13.5°	591.8	587.7	586.2	585.6	585.9	587.3
14°	590.1	585.7	584.2	583.6	583.9	585.3
14.5°	588.2	583.7	582.0	581.5	581.7	583.2
15°	586.1	581.5	579.9	579.3	579.5	580.9
15.5°	584.1	579.3	577.6	577.0	577.2	578.7
16°	581.9	576.9	575.3	574.7	574.8	576.3
16.5°	579.7	574.6	572.9	572.3	572.3	573.9
17°	577.4	572.1	570.4	569.8	569.9	571.3
17.5°	575.1	569.7	567.9	567.2	567.3	568.8
18°	572.7	567.0	565.2	564.6	564.6	566.0
18.5°	570.2	564.4	562.5	561.8	561.8	563.4
19°	567.6	561.5	559.7	559.1	559.0	560.5
19.5°	565.0	558.7	556.8	556.2	556.1	557.5
20°	562.2	555.8	553.9	553.5	553.2	554.6
20.5°	559.5	552.8	550.8	550.4	550.1	551.5
21°	556.5	549.8	547.8	547.3	546.9	548.4



TEST NUMBER: P775811

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMW-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	547.4	540.1	538.1	537.7	537.0	538.4
23°	544.3	536.6	534.7	534.3	533.6	534.9
23.5°	541.0	533.2	531.1	530.8	530.1	531.4
24°	537.7	529.6	527.7	527.2	526.4	527.9
24.5°	534.3	525.9	524.1	523.6	522.8	524.1
25°	530.8	522.1	520.5	520.0	519.1	520.3
25.5°	527.2	518.4	516.5	516.2	515.3	516.4
26°	523.6	514.6	512.9	512.5	511.4	512.6
26.5°	519.9	510.7	509.0	508.6	507.5	508.6
27°	516.0	506.7	505.0	504.7	503.5	504.5
27.5°	512.1	502.6	501.0	500.6	499.4	500.3
28°	508.3	498.5	496.8	496.4	495.3	496.1
28.5°	504.4	494.2	492.7	492.3	491.0	491.9
29°	500.2	490.0	488.5	488.1	486.8	487.7
29.5°	496.1	485.7	484.2	483.8	482.6	483.3
30°	491.8	481.3	479.9	479.4	478.2	478.9
30.5°	487.6	476.7	475.4	474.9	473.8	474.4
31°	483.2	472.2	471.0	470.4	469.3	469.9
31.5°	479.0	467.4	466.3	465.8	464.7	465.4
32°	474.5	462.9	461.7	461.2	460.2	461.0
32.5°	470.0	455.2	457.2	456.5	455.6	453.2
33°	465.4	447.1	452.5	452.0	450.9	445.0
33.5°	460.7	435.8	447.4	447.2	446.1	434.2
34°	455.8	424.2	442.9	442.4	441.8	422.6
34.5°	451.2	412.5	434.5	437.5	436.4	410.7
35°	444.0	400.8	426.6	432.6	427.5	399.4
35.5°	435.9	389.5	415.1	427.7	419.1	388.2
36°	425.5	378.2	404.7	422.8	408.4	376.9
36.5°	414.0	366.4	393.4	417.9	397.1	365.1
37°	403.1	354.0	382.5	412.8	386.0	352.6
37.5°	391.7	341.4	371.4	407.8	375.4	339.9
38°	380.4	328.2	360.5	402.8	364.7	327.2
38.5°	369.3	315.5	349.4	397.8	353.7	314.6
39°	358.4	303.1	337.9	392.8	342.8	302.3
39.5°	346.3	291.0	325.8	387.7	331.2	290.3
40°	334.1	279.2	313.8	382.6	319.3	278.3
40.5°	321.6	267.8	301.9	377.5	307.4	266.9
41°	309.6	256.2	289.8	372.5	295.5	255.2
41.5°	297.2	244.3	278.1	367.1	284.0	243.6
42°	285.4	232.6	267.5	359.2	272.9	231.9
42.5°	273.9	221.3	256.7	350.7	262.2	220.5
43°	263.0	209.8	245.6	338.3	251.2	208.9
43.5°	251.4	199.0	234.9	326.1	240.3	198.2



TEST NUMBER: P775811

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMW-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	218.2	168.1	202.0	284.8	207.6	167.2
45.5°	206.8	158.1	192.0	272.1	197.4	157.4
46°	196.1	148.7	181.7	259.7	187.2	148.0
46.5°	185.6	139.7	172.0	247.7	177.2	139.2
47°	175.5	131.1	162.2	235.7	167.5	130.5
47.5°	165.6	123.1	153.0	223.6	158.2	122.5
48°	156.0	115.8	143.9	211.7	148.8	115.3
48.5°	146.7	109.4	135.2	200.5	140.1	109.0
49°	137.7	103.7	127.1	189.6	131.7	103.3
49.5°	129.3	98.7	119.6	179.0	123.9	98.3
50°	121.1	94.3	112.2	168.7	116.1	93.7
50.5°	113.5	90.1	106.0	159.5	109.4	89.8
51°	106.8	86.3	100.2	150.5	103.2	86.0
51.5°	100.9	82.7	95.2	141.8	97.8	82.4
52°	95.7	79.3	90.7	133.6	92.9	78.8
52.5°	91.1	75.7	86.7	125.8	88.7	75.3
53°	87.3	72.2	83.0	118.3	84.7	71.8
53.5°	83.6	69.3	79.4	111.4	81.0	69.1
54°	79.8	67.0	75.9	104.8	77.4	66.9
54.5°	76.1	65.6	72.4	98.7	74.1	65.6
55°	72.6	64.5	69.1	93.0	70.6	64.5
55.5°	69.1	63.4	66.3	87.7	67.4	63.4
56°	66.1	62.3	64.2	82.9	64.9	62.2
56.5°	63.8	61.2	62.9	78.7	63.4	61.2
57°	62.3	60.2	61.8	74.6	62.1	60.2
57.5°	61.2	59.1	60.7	70.9	61.0	59.1
58°	60.2	58.1	59.7	67.6	60.0	58.1
58.5°	59.1	57.0	58.6	64.7	58.9	57.0
59°	58.1	56.0	57.5	62.2	57.8	56.0
59.5°	57.0	55.0	56.5	60.0	56.8	55.0
60°	56.0	54.0	55.5	57.9	55.7	54.0
60.5°	55.0	52.9	54.5	56.2	54.7	52.8
61°	54.0	51.9	53.5	54.6	53.7	51.8
61.5°	52.9	51.0	52.4	53.1	52.6	50.8
62°	51.9	50.0	51.4	51.7	51.5	49.8
62.5°	50.9	49.0	50.4	50.5	50.5	48.7
63°	49.9	48.1	49.4	49.5	49.5	47.6
63.5°	48.9	47.0	48.4	48.4	48.4	46.6
64°	47.8	46.0	47.3	47.3	47.3	45.6
64.5°	46.8	45.1	46.3	46.2	46.2	44.5
65°	45.9	44.1	45.3	45.2	45.2	43.5
65.5°	44.9	43.2	44.3	44.1	44.1	42.4
66°	43.9	42.1	43.3	43.1	43.1	41.4



TEST NUMBER: P775811

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMW-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	40.9	39.3	40.3	40.0	39.9	38.4
68°	39.9	38.3	39.3	39.0	38.8	37.3
68.5°	38.9	37.3	38.3	37.8	37.7	36.3
69°	37.8	36.4	37.3	36.6	37.2	35.3
69.5°	36.9	35.5	36.3	35.7	36.1	34.4
70°	35.9	34.6	35.4	34.7	35.0	33.4
70.5°	34.9	33.6	34.4	33.8	33.8	32.3
71°	34.0	32.6	33.4	32.9	32.6	31.4
71.5°	33.0	31.7	32.4	31.7	31.6	30.4
72°	32.0	30.8	31.4	30.7	30.6	29.4
72.5°	31.0	29.8	30.5	29.7	29.6	28.4
73°	30.0	28.9	29.5	28.7	28.5	27.3
73.5°	29.1	27.9	28.5	27.6	27.4	26.3
74°	28.1	26.9	27.4	26.6	26.4	25.3
74.5°	27.1	26.0	26.5	25.6	25.4	24.4
75°	26.1	25.1	25.5	24.6	24.4	23.4
75.5°	25.2	24.1	24.5	23.6	23.4	22.3
76°	24.2	23.2	23.6	22.5	22.2	21.4
76.5°	23.3	22.2	22.5	21.5	21.2	20.4
77°	22.2	21.3	21.6	20.5	20.2	19.4
77.5°	21.3	20.3	20.6	19.5	19.2	18.4
78°	20.3	19.4	19.6	18.5	18.2	17.4
78.5°	19.4	18.5	18.7	17.4	17.1	16.4
79°	18.4	17.4	17.6	16.4	16.1	15.4
79.5°	17.3	16.5	16.6	15.4	15.1	14.4
80°	16.4	15.6	15.6	14.5	14.0	13.5
80.5°	15.4	14.7	14.7	13.5	13.0	12.4
81°	14.5	13.8	13.7	12.5	11.9	11.5
81.5°	13.5	12.9	12.8	11.5	10.9	10.5
82°	12.5	11.8	11.7	10.6	9.9	9.6
82.5°	11.6	10.9	10.8	9.7	8.9	8.6
83°	10.7	10.0	9.9	8.8	7.9	7.7
83.5°	9.8	9.1	8.9	7.9	6.8	6.6
84°	8.8	8.2	8.0	7.0	5.9	5.7
84.5°	7.9	7.2	7.0	6.1	5.1	4.7
85°	6.9	6.3	6.1	5.3	4.3	3.8
85.5°	6.0	5.4	5.1	4.5	3.6	3.2
86°	5.1	4.5	4.2	3.7	3.0	2.6
86.5°	4.2	3.6	3.4	2.9	2.3	2.0
87°	3.4	2.8	2.6	2.0	1.6	1.4
87.5°	2.4	1.9	1.7	1.3	1.0	0.9
88°	1.6	1.0	0.9	0.5	0.4	0.4
88.5°	0.7	0.2	0.1	0.1	0.1	0.1



TEST NUMBER: P775811
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMW-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.1	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°

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21.5°	545.0	550.6	557.9	563.6	569.3	573.0	574.6	573.0	569.7	565.6	560.2
22°	541.7	547.4	554.9	560.8	566.6	570.4	572.1	570.5	567.0	563.0	557.3



44°	187.4	229.2	339.6	262.7	228.9	274.5	380.2	277.6	230.5	267.2	351.0
44.5°	177.2	218.2	326.9	251.4	217.6	262.7	368.8	265.7	219.1	255.7	337.9



66.5°	40.4	41.6	41.6	41.6	41.0	42.1	42.1	41.8	40.4	42.1	42.4
67°	39.4	40.6	40.6	40.7	40.1	41.2	41.1	40.8	39.4	41.1	41.4



89°	0.0	0.1	0.1	0.2	0.6	0.8	0.8	0.6	0.5	0.4	0.3
89.5°	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.2	0.1	0.1	0.1

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21.5°	553.6	546.6	544.6	544.2	543.7	545.0
22°	550.6	543.4	541.3	541.0	540.5	541.7



44°	240.2	188.1	223.7	311.4	229.3	187.4
44.5°	229.0	178.1	212.9	298.2	218.5	177.2



66.5°	42.8	41.2	42.2	42.0	41.9	40.4
67°	41.8	40.2	41.3	41.0	40.9	39.4

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89°	0.2	0.0	0.1	0.1	0.1	0.0
89.5°	0.0	0.0	0.0	0.1	0.1	0.0

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(END OF REPORT)