

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: P775875

Luminaire Tested: HCDJBL510CSD-HCD8TRH-HCD8TRLWW-1000lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B022)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD8TRH-HCD8TRLWW-1000lm-2700K
Description: 8 INCH ROUND MEDIUM LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

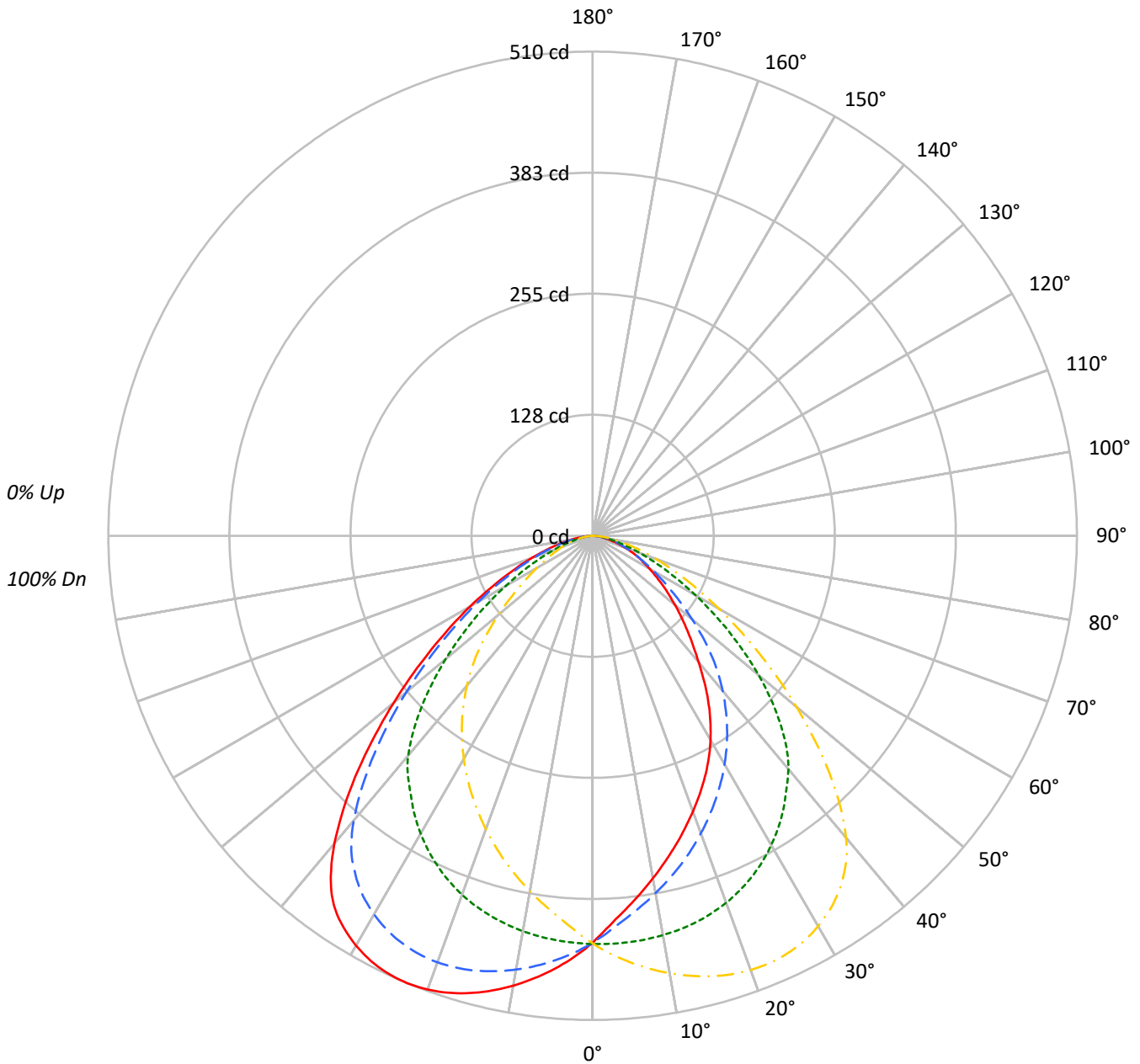
Lumens per Lamp: N/A
Luminaire Lumens: 1003.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.32
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	94	89	83	99	93	87	83	89	85	81	86	82	79	83	80	77	75								
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65								
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57								
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50								
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44								
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39								
8	64	51	43	38	63	51	43	38	50	43	38	48	42	37	47	41	37	35								
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32								
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13097	13097	13097	13097
5°	12118	13172	14027	13111
10°	11353	13241	14915	13110
15°	10667	13316	15763	13104
20°	10039	13363	16524	13067
25°	9429	13357	17143	12963
30°	8753	13266	17567	12769
35°	7909	13063	17700	12437
40°	6927	12789	16854	12032
45°	6084	12063	15077	10997
50°	5377	10834	12981	9594
55°	4748	9278	10944	8037
60°	4207	7626	9086	6479
65°	3757	6119	7426	5079
70°	3196	4749	6052	3856
75°	2560	3598	4872	2831
80°	1987	2655	3833	1916
85°	1331	1892	2452	1086

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 15336 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.7	4.1
10°-20°	117.9	11.8
20°-30°	180.4	18.0
30°-40°	213.6	21.3
40°-50°	196.2	19.6
50°-60°	137.2	13.7
60°-70°	76.9	7.7
70°-80°	33.2	3.3
80°-90°	7.0	0.7
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°	338.9	33.8
0°-40°	552.6	55.1
0°-60°	885.9	88.3
0°-90°	1003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1003.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	429	429	429	429	429	
5°	395	430	458	428	395	37
15°	338	421	499	415	338	95
25°	280	396	509	385	280	128
35°	212	350	475	334	212	132
45°	141	279	349	255	141	109
55°	89	174	206	151	89	80
65°	52	85	103	70	52	51
75°	22	30	41	24	22	24
85°	4	5	7	3	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°	429.0	429.0	429.0	429.0	429.0	429.0	429.0	429.0	429.0	429.0	429.0
0.5°	424.9	425.2	426.3	427.8	430.1	431.0	431.9	431.9	431.7	431.3	431.0
1°	421.5	422.1	423.9	426.5	430.1	432.3	434.2	434.9	435.0	434.4	433.2
1.5°	417.9	418.8	421.5	425.2	430.2	433.7	436.5	437.9	438.1	437.2	435.3
2°	414.3	415.5	419.0	423.9	430.2	434.9	438.7	440.7	441.1	440.0	437.5
2.5°	410.9	412.3	416.4	422.5	430.2	436.1	440.9	443.4	444.0	442.7	439.5
3°	407.6	409.2	414.0	421.2	430.2	437.4	442.9	446.1	446.9	445.3	441.5
3.5°	404.4	406.3	411.5	419.8	430.1	438.5	445.0	448.7	449.7	447.8	443.3
4°	401.4	403.4	409.2	418.2	430.0	439.6	447.0	451.3	452.4	450.3	445.2
4.5°	398.3	400.6	406.8	416.8	429.9	440.7	449.0	453.9	455.1	452.7	447.0
5°	395.4	397.8	404.5	415.3	429.8	441.8	450.9	456.3	457.7	455.1	448.8
5.5°	392.4	395.0	402.3	413.8	429.7	442.7	452.8	458.8	460.3	457.5	450.5
6°	389.5	392.3	400.0	412.4	429.5	443.7	454.6	461.1	462.8	459.8	452.2
6.5°	386.6	389.6	397.8	410.9	429.3	444.7	456.5	463.5	465.3	461.9	453.8
7°	383.6	386.9	395.6	409.4	429.1	445.6	458.2	465.7	467.7	464.1	455.4
7.5°	380.7	384.2	393.4	407.9	428.8	446.5	460.0	467.9	470.0	466.3	456.9
8°	377.8	381.4	391.2	406.4	428.5	447.3	461.6	470.1	472.4	468.4	458.4
8.5°	374.9	378.7	389.0	404.9	428.2	448.1	463.3	472.3	474.7	470.4	459.9
9°	372.0	376.0	386.7	403.3	427.9	448.9	464.8	474.3	476.9	472.3	461.3
9.5°	369.1	373.3	384.5	401.8	427.5	449.6	466.4	476.3	479.0	474.3	462.6
10°	366.2	370.5	382.2	400.3	427.1	450.4	467.8	478.4	481.1	476.1	463.9
10.5°	363.4	367.8	379.9	398.8	426.7	451.0	469.3	480.2	483.2	478.0	465.2
11°	360.4	365.1	377.6	397.2	426.2	451.6	470.8	482.1	485.2	479.7	466.4
11.5°	357.5	362.4	375.3	395.6	425.7	452.2	472.1	483.9	487.1	481.4	467.6
12°	354.6	359.6	372.9	394.0	425.2	452.8	473.4	485.7	488.9	483.1	468.7
12.5°	351.8	356.9	370.6	392.3	424.7	453.3	474.7	487.5	490.7	484.6	469.7
13°	348.9	354.2	368.3	390.6	424.1	453.8	475.9	489.1	492.5	486.2	470.7
13.5°	346.1	351.5	365.9	389.0	423.4	454.2	477.1	490.6	494.1	487.6	471.7
14°	343.2	348.7	363.5	387.2	422.7	454.5	478.2	492.2	495.7	489.0	472.6
14.5°	340.3	346.0	361.1	385.5	422.0	454.9	479.3	493.6	497.2	490.3	473.4
15°	337.5	343.2	358.7	383.6	421.3	455.2	480.3	495.0	498.7	491.6	474.2
15.5°	334.6	340.4	356.3	381.9	420.5	455.4	481.2	496.3	500.1	492.7	474.9
16°	331.8	337.7	353.8	380.0	419.7	455.6	482.1	497.6	501.4	493.8	475.5
16.5°	329.0	335.0	351.3	378.2	418.8	455.7	482.9	498.7	502.6	494.9	476.1
17°	326.1	332.2	348.9	376.2	417.8	455.8	483.7	499.8	503.7	495.8	476.6
17.5°	323.2	329.5	346.3	374.2	416.8	455.8	484.4	500.8	504.7	496.7	477.0
18°	320.3	326.7	343.8	372.2	415.8	455.8	485.0	501.7	505.7	497.5	477.4
18.5°	317.5	323.9	341.2	370.2	414.7	455.7	485.5	502.6	506.5	498.1	477.7
19°	314.7	321.1	338.7	368.1	413.6	455.6	486.0	503.4	507.3	498.8	477.9
19.5°	311.8	318.4	336.1	366.1	412.5	455.4	486.4	504.0	508.0	499.3	478.0
20°	309.0	315.5	333.5	363.9	411.3	455.1	486.7	504.6	508.6	499.7	478.1
20.5°	306.1	312.7	330.9	361.8	410.1	454.7	487.0	505.1	509.1	500.0	478.0
21°	303.3	309.9	328.2	359.6	408.7	454.3	487.1	505.5	509.5	500.3	477.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	294.6	301.5	320.2	352.8	404.6	452.8	487.2	506.1	510.1	500.4	477.1
23°	291.7	298.7	317.4	350.4	403.1	452.1	487.0	506.1	510.0	500.2	476.6
23.5°	288.8	295.9	314.8	348.1	401.5	451.4	486.7	506.0	509.9	500.0	476.1
24°	285.9	293.0	312.0	345.7	399.8	450.6	486.4	505.8	509.7	499.6	475.4
24.5°	282.9	290.0	309.3	343.2	398.2	449.7	486.0	505.5	509.3	499.1	474.7
25°	279.9	287.2	306.5	340.8	396.5	448.7	485.4	505.1	508.9	498.6	473.9
25.5°	276.9	284.2	303.8	338.3	394.8	447.7	484.8	504.6	508.4	497.9	473.0
26°	273.9	281.3	301.0	335.8	392.9	446.6	484.1	504.0	507.7	497.1	471.9
26.5°	270.9	278.3	298.2	333.2	391.0	445.3	483.3	503.3	506.9	496.2	470.8
27°	267.7	275.4	295.3	330.6	389.1	444.1	482.4	502.5	506.1	495.3	469.6
27.5°	264.5	272.3	292.5	328.0	387.1	442.7	481.4	501.6	505.1	494.2	468.3
28°	261.4	269.3	289.6	325.2	385.0	441.3	480.3	500.5	504.0	492.9	466.9
28.5°	258.2	266.2	286.7	322.5	382.9	439.8	479.1	499.4	502.8	491.7	465.5
29°	254.9	263.1	283.8	319.8	380.8	438.2	477.8	498.1	501.4	490.2	463.9
29.5°	251.6	259.9	280.9	317.1	378.5	436.5	476.4	496.8	499.9	488.7	462.2
30°	248.3	256.7	277.9	314.4	376.3	434.7	474.9	495.3	498.3	487.0	460.4
30.5°	244.9	253.4	274.9	311.5	374.0	432.9	473.3	493.6	496.6	485.3	458.5
31°	241.4	250.2	271.9	308.7	371.6	431.0	471.6	491.9	494.8	483.4	456.5
31.5°	237.9	246.8	268.8	305.9	369.1	428.9	469.8	490.1	492.9	481.4	454.4
32°	234.3	243.5	265.8	302.9	366.7	426.9	467.9	488.1	490.8	479.2	452.3
32.5°	230.6	240.1	262.7	300.1	364.2	424.7	465.9	486.1	488.7	477.0	449.9
33°	227.1	236.6	259.6	297.1	361.6	422.5	463.8	483.9	486.3	474.7	447.4
33.5°	223.4	233.1	256.5	294.2	358.9	420.1	461.5	481.5	483.8	472.0	444.8
34°	219.8	229.5	253.3	291.1	356.2	417.5	459.1	479.0	481.2	469.3	441.9
34.5°	215.9	225.9	250.1	288.1	353.4	415.0	456.7	476.4	478.3	466.1	438.8
35°	212.2	222.2	246.9	285.0	350.5	412.4	454.0	473.4	474.9	462.8	435.5
35.5°	208.3	218.6	243.6	281.9	347.6	409.5	451.1	470.2	471.4	459.0	432.0
36°	204.6	214.9	240.3	278.8	344.6	406.5	447.9	466.6	467.4	455.0	428.8
36.5°	200.6	211.2	237.1	275.6	341.5	403.5	444.5	462.6	463.1	450.9	425.5
37°	196.8	207.4	233.7	272.5	338.5	400.3	441.0	458.5	457.9	446.5	421.9
37.5°	192.8	203.6	230.2	269.2	335.4	397.4	437.7	454.0	453.1	441.4	417.6
38°	189.0	199.7	226.8	266.2	332.6	394.5	434.0	449.0	447.4	436.0	412.9
38.5°	184.9	195.9	223.4	263.0	329.7	391.8	429.9	443.7	441.8	430.4	407.8
39°	181.2	192.0	220.0	259.9	326.8	388.6	425.3	438.3	435.7	424.5	402.6
39.5°	177.4	188.1	216.5	256.8	323.9	385.1	420.6	432.5	429.5	418.3	397.0
40°	173.8	184.2	213.0	253.7	320.9	381.2	415.3	426.3	422.9	411.9	391.2
40.5°	170.0	180.3	209.4	250.5	317.6	376.7	409.8	420.1	416.0	405.3	385.1
41°	166.6	176.5	205.8	247.3	314.0	372.2	404.1	413.3	409.1	398.5	379.0
41.5°	163.1	172.7	202.3	244.0	310.2	367.4	398.2	406.6	401.9	391.6	372.6
42°	159.9	168.9	198.7	240.6	306.2	362.3	392.1	399.6	394.7	384.6	366.1
42.5°	156.6	165.3	195.1	237.1	302.1	357.3	385.8	392.4	387.4	377.3	359.6
43°	153.3	161.8	191.4	233.4	297.7	352.0	379.2	385.2	379.9	370.2	353.0
43.5°	150.1	158.3	187.7	229.5	293.3	346.5	372.5	377.8	372.3	362.6	346.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	140.9	148.4	176.2	217.7	279.4	329.2	352.0	355.2	349.2	340.3	325.3
45.5°	138.0	145.2	172.4	213.8	274.5	323.2	344.8	347.7	341.6	332.8	318.3
46°	135.0	142.0	168.4	209.6	269.7	317.0	337.8	340.0	333.8	325.2	311.3
46.5°	132.1	138.8	164.4	205.3	264.8	310.8	330.7	332.4	326.1	317.6	304.3
47°	129.3	135.8	160.4	201.1	259.7	304.5	323.3	324.5	318.2	310.1	297.3
47.5°	126.5	132.7	156.3	196.7	254.5	298.2	316.0	316.9	310.7	302.7	290.2
48°	123.8	129.8	152.2	192.4	249.3	291.8	308.9	309.5	303.1	295.4	283.3
48.5°	121.1	126.9	148.3	188.1	244.1	285.4	301.6	301.9	295.7	288.0	276.4
49°	118.5	124.0	144.3	183.6	238.9	279.0	294.4	294.5	287.9	280.8	269.6
49.5°	115.8	121.2	140.5	179.2	233.5	272.5	287.3	286.9	280.6	273.4	262.8
50°	113.2	118.4	136.5	174.8	228.1	266.1	280.2	279.5	273.3	266.3	255.9
50.5°	110.6	115.7	132.7	170.3	222.6	259.7	272.9	272.2	266.1	259.2	249.2
51°	108.1	112.9	129.1	165.8	217.2	253.1	265.8	264.9	258.9	252.3	242.5
51.5°	105.7	110.3	125.5	161.2	211.9	246.9	259.0	257.9	251.8	245.4	236.1
52°	103.2	107.6	121.9	156.8	206.4	240.5	252.1	250.8	245.0	238.6	229.4
52.5°	100.8	105.0	118.5	152.3	201.0	234.0	245.1	243.7	237.9	231.8	222.9
53°	98.4	102.4	115.0	147.8	195.6	227.6	238.3	236.9	231.3	225.3	216.6
53.5°	96.1	99.9	111.6	143.4	190.2	221.4	231.5	230.1	224.4	218.7	210.4
54°	93.7	97.4	108.2	138.9	184.8	215.1	225.0	223.5	218.1	212.3	204.2
54.5°	91.5	95.0	105.0	134.5	179.5	209.0	218.4	216.9	211.4	206.0	198.2
55°	89.2	92.6	101.8	130.2	174.3	203.0	211.9	210.5	205.6	200.1	192.3
55.5°	87.0	90.2	98.7	125.9	169.1	196.8	205.8	204.2	199.1	193.9	186.5
56°	84.9	87.9	95.6	121.6	163.9	190.9	199.4	198.0	193.3	187.9	180.7
56.5°	82.7	85.6	92.7	117.5	158.9	185.3	193.3	191.9	187.0	182.2	175.1
57°	80.6	83.2	89.7	113.5	153.7	179.4	187.3	186.0	181.6	176.5	169.5
57.5°	78.6	81.1	86.9	109.4	148.9	173.7	181.3	180.1	175.6	170.9	164.1
58°	76.5	78.9	84.2	105.5	143.9	168.1	175.6	174.4	170.3	165.4	158.9
58.5°	74.6	76.8	81.5	101.7	139.0	162.7	170.0	168.9	164.6	160.2	153.6
59°	72.7	74.7	78.9	97.9	134.2	157.3	164.4	163.4	159.5	155.0	148.6
59.5°	70.8	72.7	76.4	94.2	129.5	152.1	158.8	158.0	154.1	149.8	143.5
60°	68.9	70.7	73.9	90.6	124.9	146.9	153.4	152.8	148.8	144.9	138.6
60.5°	67.1	68.7	71.5	87.2	120.4	141.8	148.3	147.7	143.9	140.1	133.8
61°	65.3	66.8	69.1	83.7	116.1	136.7	143.3	142.7	138.5	135.2	129.1
61.5°	63.5	65.0	67.0	80.4	111.7	131.9	138.2	137.7	133.8	130.5	124.6
62°	61.8	63.2	64.8	77.3	107.5	127.2	133.3	133.0	129.1	125.9	120.2
62.5°	60.1	61.4	62.7	74.2	103.5	122.6	128.5	128.2	124.2	121.4	115.9
63°	58.5	59.6	60.7	71.2	99.5	117.9	123.9	123.6	119.9	117.0	111.6
63.5°	56.9	57.9	58.7	68.2	95.4	113.4	119.3	119.1	115.3	112.7	107.6
64°	55.3	56.3	56.8	65.4	91.9	109.1	115.0	114.8	110.9	108.5	103.5
64.5°	53.7	54.6	55.0	62.7	88.3	104.9	110.7	110.5	106.9	104.5	99.6
65°	52.0	53.0	53.3	60.1	84.7	100.9	106.5	106.4	102.8	100.6	95.9
65.5°	50.4	51.4	51.5	57.6	81.1	96.9	102.4	102.4	98.7	96.7	92.2
66°	48.8	49.8	49.8	55.1	77.5	92.9	98.5	98.5	94.9	92.9	88.5



TEST NUMBER: P775875

CATALOG NUMBER: HCDJBL510CSD-HCD8TRH-HCD8TRLWW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	43.7	45.0	45.0	48.3	67.6	82.1	87.4	87.5	84.3	82.4	78.4
68°	42.2	43.5	43.5	46.0	64.5	78.6	84.0	84.1	80.8	79.0	75.0
68.5°	40.6	42.0	42.0	44.0	61.6	75.0	80.5	80.6	77.4	75.6	71.8
69°	39.0	40.5	40.5	41.9	58.6	71.7	77.1	77.2	73.9	72.5	68.7
69.5°	37.5	38.9	39.1	40.1	55.9	68.4	73.6	73.8	70.8	69.4	65.7
70°	35.8	37.4	37.7	38.3	53.2	65.2	70.4	70.7	67.8	66.4	62.7
70.5°	34.4	35.8	36.4	36.6	50.6	62.2	67.2	67.6	64.8	63.5	59.9
71°	33.0	34.4	35.1	35.0	48.0	59.4	64.3	64.7	61.9	60.6	57.2
71.5°	31.5	33.1	33.8	33.5	45.5	56.5	61.4	61.8	59.0	57.8	54.5
72°	30.1	31.7	32.5	31.9	43.1	53.7	58.5	58.9	56.3	55.1	51.9
72.5°	28.7	30.4	31.3	30.4	40.8	51.0	55.8	56.2	53.6	52.5	49.3
73°	27.3	29.0	30.0	28.8	38.6	48.4	53.0	53.6	51.0	49.9	46.9
73.5°	25.8	27.6	28.7	27.5	36.4	45.8	50.6	51.0	48.5	47.5	44.4
74°	24.4	26.3	27.5	26.2	34.4	43.4	48.0	48.6	46.0	45.0	42.1
74.5°	23.1	25.0	26.3	24.9	32.4	41.1	45.4	46.0	43.6	42.8	39.9
75°	21.7	23.6	25.1	23.7	30.5	38.8	43.0	43.7	41.3	40.5	37.7
75.5°	20.4	22.4	23.9	22.6	28.6	36.6	40.8	41.4	39.1	38.3	35.6
76°	19.1	21.1	22.8	21.5	26.9	34.5	38.5	39.2	36.9	36.1	33.5
76.5°	17.9	19.8	21.6	20.4	25.2	32.4	36.4	37.1	34.9	34.1	31.6
77°	16.7	18.6	20.5	19.4	23.6	30.5	34.3	35.0	32.8	32.1	29.7
77.5°	15.7	17.4	19.4	18.5	22.0	28.6	32.3	33.0	30.8	30.2	27.8
78°	14.8	16.3	18.3	17.5	20.5	26.7	30.3	31.1	28.9	28.3	26.0
78.5°	13.9	15.3	17.2	16.6	19.0	25.0	28.5	29.2	27.1	26.5	24.3
79°	13.0	14.3	16.2	15.6	17.7	23.3	26.6	27.4	25.2	24.7	22.7
79.5°	12.2	13.4	15.2	14.7	16.3	21.6	24.9	25.6	23.5	23.1	21.0
80°	11.3	12.6	14.2	13.8	15.1	20.1	23.2	23.8	21.8	21.4	19.4
80.5°	10.6	11.7	13.2	13.0	13.8	18.6	21.5	22.2	20.1	19.8	18.0
81°	9.8	10.9	12.3	12.1	12.8	17.1	20.0	20.6	18.5	18.2	16.5
81.5°	9.0	10.0	11.5	11.2	11.6	15.7	18.4	19.0	16.9	16.7	15.1
82°	8.2	9.2	10.6	10.4	10.6	14.4	17.0	17.5	15.4	15.3	13.7
82.5°	7.5	8.4	9.8	9.6	9.6	13.1	15.5	16.0	13.9	13.9	12.4
83°	6.7	7.6	9.0	8.8	8.7	11.9	14.2	14.6	12.5	12.5	11.2
83.5°	5.9	6.8	8.2	8.1	7.9	10.8	12.8	13.2	11.0	11.2	10.1
84°	5.2	6.1	7.4	7.3	7.1	9.8	11.6	11.9	9.7	10.0	9.0
84.5°	4.5	5.3	6.6	6.6	6.2	8.7	10.3	10.6	8.3	8.8	7.9
85°	3.8	4.6	5.8	5.8	5.4	7.7	9.3	9.4	7.0	7.6	6.8
85.5°	3.2	3.8	5.1	5.1	4.7	6.7	8.2	8.3	5.7	6.4	5.7
86°	2.6	3.2	4.3	4.4	4.0	5.7	7.1	7.2	4.3	5.2	4.6
86.5°	2.0	2.7	3.7	3.7	3.4	4.9	6.0	6.0	3.2	4.3	3.7
87°	1.5	2.1	3.0	3.1	2.8	4.0	4.9	4.9	2.6	3.4	2.8
87.5°	1.0	1.5	2.4	2.5	2.2	3.2	4.0	3.9	2.0	2.6	1.9
88°	0.6	1.0	1.7	1.8	1.7	2.5	3.0	3.0	1.4	1.7	1.1
88.5°	0.3	0.6	1.1	1.2	1.2	1.8	2.2	2.0	0.8	0.8	0.3



TEST NUMBER: P775875
CATALOG NUMBER: HCDJBL510CSD-HCD8TRH-HCD8TRLWW-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	0.1	0.1	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775875

CATALOG NUMBER: HCDJBL510CSD-HCD8TRH-HCD8TRLWW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	429.0	429.0	429.0	429.0	429.0	429.0
0.5°	430.2	429.9	428.3	426.9	425.6	424.9
1°	431.3	429.8	426.9	424.4	422.3	421.5
1.5°	432.4	429.6	425.4	421.8	419.0	417.9
2°	433.5	429.4	423.9	419.3	415.6	414.3
2.5°	434.6	429.2	422.4	416.5	412.4	410.9
3°	435.6	428.9	420.9	413.9	409.3	407.6
3.5°	436.5	428.7	419.3	411.3	406.3	404.4
4°	437.5	428.4	417.6	408.8	403.2	401.4
4.5°	438.4	428.1	416.0	406.3	400.3	398.3
5°	439.2	427.8	414.3	403.9	397.5	395.4
5.5°	440.0	427.4	412.7	401.4	394.7	392.4
6°	440.8	427.0	411.0	399.1	391.9	389.5
6.5°	441.5	426.6	409.4	396.7	389.1	386.6
7°	442.2	426.2	407.7	394.4	386.3	383.6
7.5°	442.9	425.7	406.0	392.0	383.5	380.7
8°	443.5	425.2	404.4	389.7	380.7	377.8
8.5°	444.1	424.7	402.6	387.3	377.9	374.9
9°	444.7	424.1	400.9	384.9	375.0	372.0
9.5°	445.2	423.5	399.2	382.5	372.3	369.1
10°	445.7	422.9	397.5	380.2	369.5	366.2
10.5°	446.1	422.2	395.7	377.7	366.7	363.4
11°	446.5	421.5	394.0	375.3	363.9	360.4
11.5°	446.8	420.8	392.2	372.8	361.1	357.5
12°	447.1	420.1	390.4	370.4	358.3	354.6
12.5°	447.4	419.3	388.5	367.9	355.5	351.8
13°	447.6	418.3	386.7	365.4	352.8	348.9
13.5°	447.8	417.5	384.8	362.9	349.9	346.1
14°	447.9	416.6	382.9	360.4	347.1	343.2
14.5°	447.9	415.6	381.0	357.8	344.3	340.3
15°	447.9	414.6	379.1	355.3	341.5	337.5
15.5°	447.9	413.6	377.0	352.7	338.5	334.6
16°	447.8	412.5	375.0	350.1	335.8	331.8
16.5°	447.7	411.4	373.0	347.5	333.0	329.0
17°	447.5	410.2	370.9	345.0	330.2	326.1
17.5°	447.2	409.0	368.7	342.3	327.3	323.2
18°	446.9	407.8	366.6	339.7	324.4	320.3
18.5°	446.5	406.4	364.4	336.9	321.5	317.5
19°	446.0	405.1	362.2	334.3	318.7	314.7
19.5°	445.5	403.7	359.9	331.6	315.9	311.8
20°	444.9	402.2	357.7	329.0	313.1	309.0
20.5°	444.3	400.8	355.3	326.2	310.2	306.1
21°	443.6	399.2	353.0	323.3	307.4	303.3

TEST NUMBER: P775875

CATALOG NUMBER: HCDJBL510CSD-HCD8TRH-HCD8TRLWW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	441.1	394.2	345.7	315.0	298.7	294.6
23°	440.0	392.5	343.2	312.3	295.8	291.7
23.5°	439.0	390.6	340.7	309.4	292.9	288.8
24°	437.8	388.8	338.2	306.6	290.0	285.9
24.5°	436.6	386.8	335.6	303.7	287.0	282.9
25°	435.3	384.8	333.0	300.9	284.1	279.9
25.5°	434.0	382.8	330.3	298.0	281.2	276.9
26°	432.5	380.8	327.7	295.1	278.2	273.9
26.5°	431.0	378.7	324.9	292.2	275.1	270.9
27°	429.4	376.4	322.2	289.3	272.1	267.7
27.5°	427.7	374.2	319.4	286.3	269.0	264.5
28°	425.9	371.9	316.6	283.3	265.8	261.4
28.5°	424.1	369.6	313.8	280.3	262.8	258.2
29°	422.2	367.1	311.0	277.4	259.6	254.9
29.5°	420.2	364.7	308.2	274.4	256.5	251.6
30°	418.0	362.2	305.3	271.4	253.3	248.3
30.5°	415.8	359.6	302.3	268.2	250.0	244.9
31°	413.6	357.0	299.4	265.2	246.7	241.4
31.5°	411.2	354.4	296.5	262.1	243.3	237.9
32°	408.9	351.5	293.4	259.0	239.9	234.3
32.5°	406.3	348.8	290.4	255.9	236.5	230.6
33°	403.7	345.9	287.3	252.7	233.1	227.1
33.5°	400.9	343.0	284.3	249.5	229.4	223.4
34°	397.9	339.9	281.1	246.3	225.9	219.8
34.5°	394.9	336.8	278.0	243.1	222.4	215.9
35°	391.7	333.7	274.8	239.8	218.7	212.2
35.5°	388.7	330.8	271.7	236.5	215.1	208.3
36°	385.9	328.0	268.6	233.3	211.4	204.6
36.5°	383.2	325.1	265.5	229.8	207.6	200.6
37°	380.4	322.3	262.4	226.4	203.9	196.8
37.5°	377.3	319.5	259.3	223.1	200.1	192.8
38°	373.8	316.5	256.2	219.7	196.3	189.0
38.5°	369.9	313.3	253.1	216.4	192.4	184.9
39°	365.4	309.8	250.1	212.9	188.6	181.2
39.5°	360.7	306.0	246.8	209.6	184.7	177.4
40°	355.7	301.9	243.4	206.0	180.9	173.8
40.5°	350.7	297.6	239.9	202.6	176.9	170.0
41°	345.5	293.3	236.3	199.1	173.1	166.6
41.5°	340.0	288.7	232.7	195.6	169.3	163.1
42°	334.5	284.1	228.7	191.9	165.6	159.9
42.5°	328.9	279.4	224.8	188.3	162.1	156.6
43°	323.2	274.6	220.8	184.6	158.5	153.3
43.5°	317.2	269.7	216.8	180.8	155.1	150.1

TEST NUMBER: P775875

CATALOG NUMBER: HCDJBL510CSD-HCD8TRH-HCD8TRLWW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	299.3	254.7	204.1	169.2	145.1	140.9
45.5°	293.1	249.5	199.8	165.3	142.0	138.0
46°	286.9	244.5	195.5	161.2	138.6	135.0
46.5°	281.0	239.1	191.1	157.3	135.6	132.1
47°	274.6	233.9	186.7	153.2	132.6	129.3
47.5°	268.3	228.4	182.2	149.1	129.6	126.5
48°	262.1	223.3	177.8	145.0	126.6	123.8
48.5°	256.1	217.9	173.3	141.0	123.7	121.1
49°	249.7	212.7	168.9	136.9	120.8	118.5
49.5°	243.5	207.4	164.4	133.1	118.0	115.8
50°	237.3	202.0	159.9	129.2	115.2	113.2
50.5°	231.3	196.8	155.4	125.5	112.4	110.6
51°	224.9	191.6	151.2	121.7	109.7	108.1
51.5°	219.2	186.4	146.7	118.2	107.0	105.7
52°	213.0	181.1	142.4	114.6	104.4	103.2
52.5°	207.2	175.8	137.9	111.1	101.8	100.8
53°	201.3	170.8	133.6	107.6	99.3	98.4
53.5°	195.6	165.8	129.3	104.4	96.7	96.1
54°	189.7	160.7	125.2	101.1	94.2	93.7
54.5°	184.2	155.7	121.1	97.8	91.8	91.5
55°	178.6	151.0	117.0	94.7	89.4	89.2
55.5°	173.2	146.1	112.9	91.7	87.1	87.0
56°	167.7	141.4	109.1	88.7	84.8	84.9
56.5°	162.4	136.5	105.2	85.7	82.5	82.7
57°	157.2	131.9	101.4	82.9	80.2	80.6
57.5°	152.2	127.3	97.6	80.2	78.0	78.6
58°	147.1	123.0	94.1	77.6	75.9	76.5
58.5°	142.3	118.7	90.6	75.0	73.8	74.6
59°	137.2	114.4	87.2	72.5	71.8	72.7
59.5°	132.5	110.1	83.8	70.1	69.8	70.8
60°	127.9	106.1	80.6	67.8	67.8	68.9
60.5°	123.4	102.0	77.4	65.5	65.9	67.1
61°	118.9	98.2	74.3	63.3	64.0	65.3
61.5°	114.7	94.5	71.4	61.2	62.2	63.5
62°	110.4	90.7	68.5	59.2	60.4	61.8
62.5°	106.3	87.1	65.6	57.2	58.7	60.1
63°	102.2	83.5	62.9	55.3	57.0	58.5
63.5°	98.3	80.1	60.3	53.4	55.2	56.9
64°	94.4	76.7	57.8	51.7	53.7	55.3
64.5°	90.7	73.5	55.3	50.0	52.1	53.7
65°	87.3	70.3	53.0	48.3	50.5	52.0
65.5°	83.8	67.3	50.7	46.7	49.0	50.4
66°	80.3	64.2	48.5	45.1	47.5	48.8



TEST NUMBER: P775875

CATALOG NUMBER: HCDJBL510CSD-HCD8TRH-HCD8TRLWW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	70.2	55.8	42.2	40.6	42.8	43.7
68°	67.1	53.1	40.3	39.2	41.2	42.2
68.5°	64.1	50.5	38.5	37.8	39.7	40.6
69°	61.2	48.1	36.7	36.5	38.2	39.0
69.5°	58.3	45.6	35.1	35.3	36.7	37.5
70°	55.5	43.2	33.5	34.0	35.3	35.8
70.5°	52.9	41.0	31.9	32.8	33.9	34.4
71°	50.3	38.8	30.3	31.5	32.5	33.0
71.5°	47.7	36.7	28.8	30.2	31.1	31.5
72°	45.2	34.8	27.4	29.0	29.7	30.1
72.5°	42.8	33.0	26.0	27.8	28.3	28.7
73°	40.5	31.1	24.6	26.6	26.9	27.3
73.5°	38.3	29.2	23.4	25.4	25.6	25.8
74°	36.2	27.3	22.2	24.3	24.3	24.4
74.5°	34.1	25.6	21.1	23.1	23.0	23.1
75°	32.1	24.0	20.0	22.0	21.7	21.7
75.5°	30.2	22.4	18.9	20.9	20.4	20.4
76°	28.3	20.9	17.9	19.8	19.2	19.1
76.5°	26.6	19.5	16.9	18.7	17.9	17.9
77°	24.8	18.1	16.0	17.6	16.8	16.7
77.5°	23.2	16.8	15.1	16.6	15.6	15.7
78°	21.6	15.5	14.3	15.5	14.6	14.8
78.5°	20.0	14.3	13.4	14.5	13.6	13.9
79°	18.6	13.1	12.5	13.6	12.7	13.0
79.5°	17.1	12.0	11.7	12.6	11.9	12.2
80°	15.7	10.9	10.9	11.6	11.0	11.3
80.5°	14.4	9.9	10.1	10.8	10.2	10.6
81°	13.2	9.0	9.3	9.9	9.4	9.8
81.5°	12.0	8.1	8.5	9.1	8.5	9.0
82°	10.8	7.2	7.8	8.3	7.7	8.2
82.5°	9.8	6.4	7.1	7.5	7.0	7.5
83°	8.9	5.7	6.4	6.8	6.2	6.7
83.5°	7.9	5.0	5.6	6.0	5.4	5.9
84°	6.9	4.3	5.0	5.3	4.7	5.2
84.5°	5.9	3.6	4.3	4.6	4.0	4.5
85°	4.9	3.1	3.6	3.9	3.4	3.8
85.5°	4.1	2.5	3.0	3.3	2.8	3.2
86°	3.3	2.0	2.4	2.7	2.2	2.6
86.5°	2.5	1.4	1.8	2.0	1.7	2.0
87°	1.8	1.0	1.2	1.4	1.2	1.5
87.5°	1.2	0.5	0.7	0.9	0.8	1.0
88°	0.5	0.2	0.2	0.4	0.5	0.6
88.5°	0.1	0.0	0.0	0.1	0.2	0.3



TEST NUMBER: P775875
CATALOG NUMBER: HCDJBL510CSD-HCD8TRH-HCD8TRLWW-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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— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°

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21.5°	300.4	307.1	325.6	357.3	407.4	453.9	487.2	505.8	509.8	500.4	477.7
22°	297.5	304.4	322.8	355.1	406.0	453.4	487.2	506.0	509.9	500.4	477.4



44°	147.0	155.0	183.9	225.7	288.7	340.8	365.9	370.4	364.5	355.3	339.2
44.5°	144.0	151.6	180.1	221.8	284.2	335.1	358.9	362.8	357.1	347.8	332.4



66.5°	47.1	48.3	48.2	52.7	73.9	89.2	94.6	94.6	91.2	89.3	85.2
67°	45.4	46.7	46.6	50.4	70.7	85.7	90.9	90.9	87.7	85.9	81.8



89°	0.1	0.3	0.5	0.7	0.8	1.1	1.3	1.0	0.2	0.1	0.0
89.5°	0.0	0.1	0.1	0.2	0.4	0.5	0.5	0.2	0.0	0.0	0.0

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21.5°	442.8	397.6	350.6	320.6	304.5	300.4
22°	441.9	395.9	348.2	317.8	301.6	297.5



44°	311.4	264.7	212.6	177.0	151.7	147.0
44.5°	305.1	259.7	208.3	173.2	148.4	144.0



66.5°	76.9	61.3	46.3	43.6	45.8	47.1
67°	73.4	58.4	44.2	42.1	44.3	45.4

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

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(END OF REPORT)