

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: P775800

Luminaire Tested: HCDJBL510CSD-HCD6TSQH-HCD6TSQLWW-1000lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B018)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD6TSQH-HCD6TSQLWW-1000lm-2700K
Description: 6 INCH SQUARE MEDIUM LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

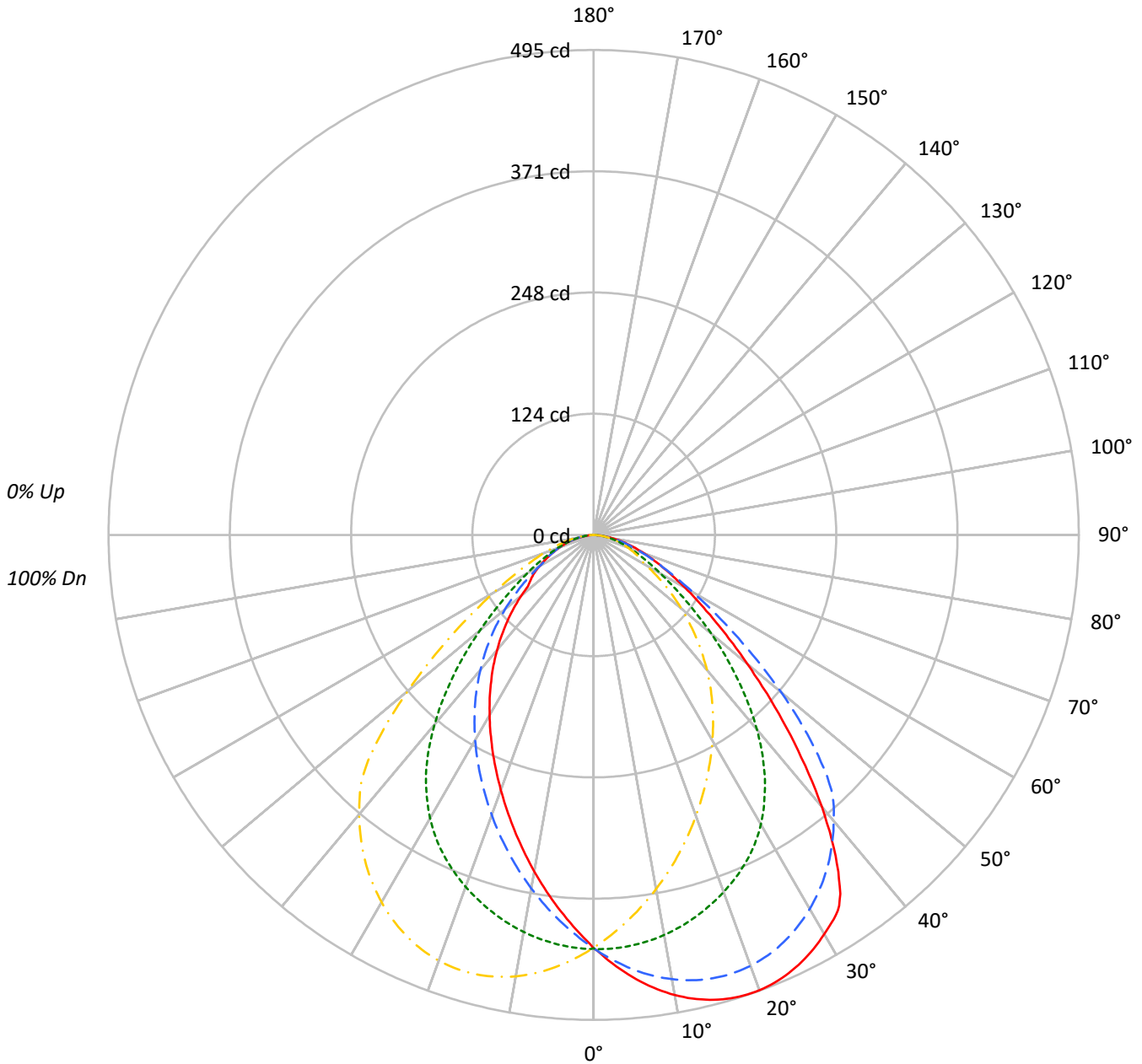
Lumens per Lamp: N/A
Luminaire Lumens: 888.0 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10
Input Voltage (V): NR
Input Current (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



TEST NUMBER: P775800
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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	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87															
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76				76															
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66				66															
4	87	76	69	63	85	75	68	62	73	66	61	70	65	61	68	64	60	58				58															
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51				51															
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	45				45															
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41				41															
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37				37															
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	33				33															
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31				31															

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18165	18165	18165	18165
5°	19579	18204	16661	18135
10°	20846	18126	15249	17991
15°	21886	17981	13912	17776
20°	22657	17769	12692	17507
25°	23150	17482	11582	17159
30°	23392	16958	10560	16595
35°	22996	16005	9587	15674
40°	20352	14552	8611	14197
45°	16952	12641	7581	12275
50°	13711	10483	6437	10155
55°	11110	8385	5848	8190
60°	9266	6803	5494	6734
65°	7885	5664	5012	5705
70°	6861	4847	4607	4935
75°	5972	4192	4175	4342
80°	4909	3595	3496	3769
85°	3162	2766	1927	3063

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 19990 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	4.5
10°-20°	113.1	12.7
20°-30°	167.8	18.9
30°-40°	191.8	21.6
40°-50°	166.7	18.8
50°-60°	108.5	12.2
60°-70°	61.8	7.0
70°-80°	30.9	3.5
80°-90°	7.3	0.8
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°	320.8	36.1
0°-40°	512.6	57.7
0°-60°	787.9	88.7
0°-90°	888.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	888.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	422	422	422	422	422	
5°	453	421	386	420	453	44
15°	491	403	312	399	491	139
25°	487	368	244	361	487	224
35°	438	304	182	298	438	269
45°	278	208	124	202	278	215
55°	148	112	78	109	148	135
65°	77	56	49	56	77	78
75°	36	25	25	26	36	38
85°	6	6	4	6	6	8
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°	421.9	421.9	421.9	421.9	421.9	421.9	421.9	421.9	421.9	421.9	421.9
0.5°	424.5	424.5	424.5	424.0	422.8	421.9	418.8	417.6	417.6	418.1	419.4
1°	427.9	427.7	426.9	425.4	422.8	420.6	416.4	414.4	414.1	414.8	416.9
1.5°	431.3	430.9	429.3	426.7	422.8	419.2	413.8	411.2	410.5	411.5	414.3
2°	434.6	434.0	431.6	427.9	422.7	417.8	411.3	407.9	407.0	408.3	411.7
2.5°	437.8	436.9	434.0	429.1	422.6	416.3	408.8	404.6	403.4	404.9	409.0
3°	441.0	439.9	436.2	430.2	422.4	414.9	406.1	401.3	399.9	401.6	406.3
3.5°	444.1	442.8	438.3	431.3	422.2	413.4	403.5	398.0	396.3	398.2	403.6
4°	447.1	445.6	440.5	432.3	421.8	411.7	400.8	394.7	392.8	394.9	400.9
4.5°	450.1	448.3	442.5	433.3	421.5	410.2	398.2	391.2	389.1	391.4	398.2
5°	453.0	451.0	444.5	434.3	421.2	408.5	395.5	387.9	385.5	388.0	395.4
5.5°	455.7	453.6	446.5	435.1	420.7	406.8	392.7	384.5	381.9	384.6	392.6
6°	458.4	456.1	448.3	435.9	420.2	405.0	389.9	381.1	378.3	381.1	389.7
6.5°	461.1	458.5	450.1	436.7	419.7	403.3	387.2	377.7	374.6	377.7	386.9
7°	463.6	460.9	451.8	437.4	419.1	401.6	384.4	374.2	370.9	374.2	384.0
7.5°	466.0	463.1	453.5	438.1	418.5	399.6	381.5	370.7	367.2	370.7	381.1
8°	468.3	465.3	455.0	438.7	417.8	397.8	378.6	367.3	363.6	367.2	378.2
8.5°	470.6	467.3	456.5	439.2	417.1	395.8	375.8	363.8	359.9	363.8	375.2
9°	472.8	469.4	457.9	439.6	416.3	393.9	372.9	360.4	356.1	360.2	372.3
9.5°	474.9	471.3	459.2	440.0	415.5	392.0	370.0	356.8	352.5	356.7	369.3
10°	476.8	473.1	460.5	440.4	414.6	389.9	367.0	353.3	348.8	353.2	366.3
10.5°	478.7	474.9	461.7	440.7	413.8	387.9	364.0	349.8	345.2	349.7	363.3
11°	480.5	476.5	462.7	440.9	412.8	385.8	361.0	346.3	341.5	346.1	360.3
11.5°	482.2	478.0	463.8	441.1	411.8	383.6	358.0	342.9	337.7	342.7	357.3
12°	483.8	479.5	464.7	441.1	410.7	381.4	355.0	339.2	334.1	339.1	354.2
12.5°	485.3	480.8	465.5	441.2	409.6	379.2	352.0	335.8	330.4	335.6	351.2
13°	486.6	482.1	466.3	441.1	408.5	377.1	348.9	332.3	326.7	332.0	348.1
13.5°	487.9	483.2	467.0	441.0	407.2	374.8	345.8	328.7	323.0	328.5	345.0
14°	489.0	484.3	467.6	440.9	406.0	372.5	342.8	325.2	319.4	324.9	341.9
14.5°	490.1	485.2	468.1	440.7	404.7	370.2	339.6	321.6	315.7	321.4	338.8
15°	491.0	486.1	468.5	440.4	403.4	367.8	336.5	318.1	312.1	317.9	335.7
15.5°	491.9	486.8	468.9	440.0	402.0	365.5	333.4	314.7	308.5	314.5	332.5
16°	492.6	487.5	469.1	439.6	400.6	363.1	330.2	311.2	304.9	310.9	329.3
16.5°	493.2	488.0	469.3	439.1	399.2	360.7	327.1	307.7	301.4	307.5	326.2
17°	493.7	488.4	469.4	438.5	397.6	358.2	323.9	304.2	297.8	304.0	323.1
17.5°	494.1	488.7	469.4	437.9	396.1	355.8	320.8	300.8	294.3	300.5	319.9
18°	494.4	488.9	469.3	437.3	394.5	353.4	317.7	297.3	290.7	297.1	316.7
18.5°	494.6	489.1	469.1	436.5	392.9	350.8	314.5	293.9	287.3	293.7	313.6
19°	494.6	489.1	468.8	435.7	391.2	348.2	311.4	290.5	283.9	290.3	310.5
19.5°	494.6	489.0	468.5	434.9	389.6	345.7	308.2	287.1	280.4	286.9	307.4
20°	494.5	488.8	468.0	433.9	387.8	343.2	305.0	283.7	277.0	283.5	304.2
20.5°	494.2	488.5	467.5	433.0	386.1	340.6	301.9	280.3	273.5	280.2	301.0
21°	493.9	488.1	466.8	431.9	384.2	337.9	298.7	277.0	270.2	276.8	297.9



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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°	492.1	486.2	464.4	428.4	378.5	329.9	289.3	267.1	260.1	267.0	288.4
23°	491.4	485.4	463.4	427.1	376.6	327.2	286.1	263.8	256.8	263.7	285.3
23.5°	490.5	484.5	462.3	425.8	374.5	324.5	283.0	260.5	253.5	260.5	282.2
24°	489.5	483.4	461.2	424.2	372.4	321.7	279.8	257.3	250.3	257.2	279.0
24.5°	488.4	482.3	459.9	422.8	370.3	319.0	276.7	254.1	247.1	253.9	275.9
25°	487.3	481.1	458.6	421.2	368.0	316.1	273.6	250.8	243.8	250.7	272.7
25.5°	486.0	479.7	457.2	419.6	365.8	313.4	270.4	247.6	240.6	247.6	269.7
26°	484.6	478.4	455.7	417.8	363.4	310.5	267.3	244.4	237.4	244.3	266.5
26.5°	483.1	476.8	454.1	416.1	361.0	307.6	264.2	241.3	234.1	241.2	263.4
27°	481.6	475.3	452.5	414.3	358.5	304.7	261.1	238.1	231.0	238.0	260.3
27.5°	480.0	473.6	450.7	412.3	355.8	301.8	257.9	234.8	227.9	234.8	257.3
28°	478.2	471.9	448.8	410.2	353.0	298.8	254.8	231.6	224.7	231.6	254.2
28.5°	476.4	470.0	447.0	408.1	350.3	295.7	251.8	228.5	221.6	228.5	251.1
29°	474.5	468.0	445.0	405.8	347.3	292.6	248.6	225.4	218.6	225.4	248.0
29.5°	472.5	466.0	442.9	403.4	344.3	289.5	245.6	222.3	215.5	222.4	244.9
30°	470.5	463.9	440.8	400.9	341.1	286.2	242.4	219.3	212.4	219.2	241.8
30.5°	468.4	461.7	438.6	398.3	337.9	282.9	239.3	216.1	209.3	216.2	238.8
31°	466.4	459.5	436.3	395.6	334.6	279.7	236.2	213.0	206.3	213.2	235.6
31.5°	464.4	457.2	433.9	392.6	331.2	276.3	233.0	210.1	203.3	210.1	232.5
32°	462.4	454.8	431.5	389.6	327.6	272.9	229.9	207.0	200.3	207.1	229.4
32.5°	460.0	452.5	428.9	386.4	323.9	269.5	226.8	203.9	197.3	204.1	226.4
33°	457.3	450.1	426.4	383.1	320.1	266.0	223.7	201.0	194.3	201.1	223.3
33.5°	454.0	447.8	423.7	379.7	316.4	262.5	220.6	198.0	191.3	198.2	220.2
34°	448.9	445.4	421.0	376.2	312.5	258.9	217.4	195.0	188.4	195.1	217.1
34.5°	444.4	442.8	418.1	372.4	308.6	255.3	214.3	191.9	185.4	192.2	214.0
35°	437.5	439.7	415.2	368.5	304.5	251.6	211.2	189.0	182.4	189.2	211.0
35.5°	431.1	436.2	412.2	364.5	300.4	248.0	208.2	186.0	179.5	186.3	207.9
36°	424.8	431.3	409.1	360.3	296.1	244.3	205.0	183.1	176.6	183.4	204.8
36.5°	416.8	426.5	405.9	356.1	291.7	240.6	201.8	180.1	173.6	180.4	201.6
37°	410.3	420.1	402.6	351.7	287.3	236.8	198.7	177.1	170.7	177.4	198.6
37.5°	402.4	413.4	399.2	347.0	282.8	232.9	195.5	174.2	167.8	174.5	195.4
38°	394.2	407.8	395.8	342.2	278.0	229.1	192.4	171.2	164.9	171.6	192.3
38.5°	386.8	399.9	392.2	337.4	273.5	225.3	189.2	168.3	162.0	168.7	189.2
39°	378.0	393.2	388.7	332.5	268.7	221.5	186.0	165.4	159.0	165.8	186.2
39.5°	370.4	386.0	384.9	327.2	263.9	217.6	182.8	162.4	156.1	162.9	183.0
40°	362.1	377.7	381.1	321.8	258.9	213.6	179.6	159.5	153.2	160.0	179.8
40.5°	352.9	371.1	377.2	316.4	254.0	209.7	176.5	156.6	150.4	157.1	176.7
41°	345.4	362.6	373.6	310.9	249.0	205.8	173.2	153.7	147.5	154.2	173.7
41.5°	336.3	354.6	369.6	305.1	243.9	201.8	170.0	150.8	144.7	151.4	170.4
42°	328.0	347.1	365.2	299.2	238.8	197.9	166.9	147.9	141.8	148.5	167.3
42.5°	319.8	338.4	360.5	293.4	233.6	193.9	163.8	145.1	138.8	145.6	164.3
43°	310.5	331.1	355.6	287.4	228.4	190.0	160.6	142.2	135.9	142.8	161.2
43.5°	303.3	322.7	349.2	281.2	223.2	186.0	157.3	139.2	133.1	139.8	158.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	278.4	297.9	328.3	262.6	207.6	174.0	147.9	130.6	124.5	131.3	148.8
45.5°	269.6	290.5	321.4	256.2	202.3	170.1	144.8	127.7	121.7	128.5	145.7
46°	262.9	282.5	313.5	249.9	197.2	166.1	141.5	124.9	118.8	125.6	142.6
46.5°	254.3	274.0	305.5	243.4	192.0	162.2	138.4	122.0	115.9	122.8	139.3
47°	247.2	267.1	298.1	236.9	186.8	158.3	135.2	119.1	113.1	119.9	136.3
47.5°	239.9	258.5	289.5	230.4	181.6	154.4	132.1	116.3	110.3	117.2	133.2
48°	231.6	251.8	281.7	224.0	176.5	150.6	129.1	113.4	107.5	114.3	130.1
48.5°	225.7	244.2	273.7	217.5	171.4	146.6	126.0	110.6	104.7	111.5	127.0
49°	217.4	236.4	265.1	211.1	166.3	142.8	122.8	107.7	101.8	108.7	124.0
49.5°	211.8	229.9	257.6	204.6	161.4	138.9	119.8	104.9	99.0	105.9	120.9
50°	204.7	221.7	249.2	198.2	156.5	135.2	116.7	102.1	96.1	103.1	117.9
50.5°	198.2	215.9	241.2	191.8	151.4	131.4	113.7	99.2	93.3	100.3	114.9
51°	192.5	208.3	233.3	185.4	146.6	127.7	110.7	96.5	90.6	97.5	111.8
51.5°	185.2	202.3	225.0	179.2	142.0	124.2	107.7	93.6	87.7	94.7	108.9
52°	180.6	196.0	217.9	173.0	137.3	120.5	104.7	90.8	85.1	92.0	105.9
52.5°	173.8	189.2	210.1	166.9	132.6	117.0	101.9	88.0	83.8	89.2	103.0
53°	169.1	183.8	202.7	160.9	128.3	113.5	98.9	85.8	82.6	86.9	100.1
53.5°	163.6	176.6	195.4	155.0	123.9	110.0	96.0	83.6	81.4	84.6	97.2
54°	158.1	171.8	187.9	149.2	119.8	106.7	93.2	81.5	80.3	82.3	94.4
54.5°	153.6	165.3	181.4	143.6	115.7	103.3	90.4	79.3	79.1	80.0	91.7
55°	148.0	160.3	174.2	138.1	111.7	100.1	87.6	77.2	77.9	77.7	88.9
55.5°	144.2	154.9	168.0	132.9	107.9	97.0	84.9	76.0	76.6	76.5	86.2
56°	138.5	149.4	161.2	127.8	104.1	93.8	82.2	74.8	75.3	75.4	83.6
56.5°	135.0	144.8	155.2	122.9	100.6	90.8	79.4	73.5	74.0	74.1	81.0
57°	130.3	139.0	149.2	118.2	97.1	87.8	76.7	72.3	72.6	72.9	78.4
57.5°	126.6	135.0	143.1	113.6	93.8	85.1	74.3	71.0	71.2	71.6	75.7
58°	122.6	129.6	137.5	109.3	90.6	82.3	71.7	69.7	69.8	70.3	73.3
58.5°	118.6	125.9	131.9	105.1	87.5	79.5	69.2	68.4	68.3	69.0	70.7
59°	115.1	120.9	126.9	101.2	84.6	76.8	66.8	67.1	66.8	67.7	68.3
59.5°	111.1	117.4	121.6	97.3	81.8	74.3	64.4	65.7	65.3	66.3	66.0
60°	107.6	112.9	116.9	93.7	79.0	71.9	62.1	64.4	63.8	64.9	63.7
60.5°	104.0	109.5	112.1	90.2	76.1	69.5	59.9	62.9	62.3	63.5	61.5
61°	100.6	105.3	107.8	86.8	73.5	67.2	57.9	61.6	60.8	62.1	59.4
61.5°	97.4	101.9	103.3	83.6	71.0	64.9	56.6	60.1	59.2	60.7	57.5
62°	94.3	98.2	99.5	80.5	68.6	62.8	55.5	58.7	57.7	59.2	56.1
62.5°	91.1	95.0	95.3	77.6	66.2	60.7	54.3	57.3	56.2	57.8	55.0
63°	88.3	91.5	91.7	74.8	64.0	58.7	53.1	55.8	54.7	56.3	53.8
63.5°	85.3	88.5	88.0	72.0	61.8	56.7	52.0	54.4	53.3	54.9	52.7
64°	82.7	85.2	84.6	69.4	59.7	54.8	50.8	53.0	51.9	53.4	51.6
64.5°	79.8	82.4	81.2	66.9	57.6	53.0	49.6	51.6	50.5	52.1	50.4
65°	77.4	79.4	78.1	64.5	55.6	51.2	48.4	50.2	49.2	50.7	49.3
65.5°	74.8	76.8	75.1	62.3	53.7	49.5	47.3	48.9	47.9	49.3	48.1
66°	72.4	73.9	72.2	60.0	51.8	47.8	45.9	47.6	46.5	47.9	46.8



TEST NUMBER: P775800

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-HCD6TSQLWW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	65.2	66.4	64.0	53.7	46.4	43.0	42.3	43.6	42.7	43.9	43.2
68°	63.0	63.9	61.4	51.7	44.7	41.5	41.1	42.4	41.5	42.7	42.0
68.5°	60.8	61.6	59.1	49.8	43.1	40.1	39.9	41.2	40.2	41.4	40.8
69°	58.6	59.4	56.6	47.9	41.6	38.7	38.7	39.9	39.0	40.2	39.5
69.5°	56.5	57.1	54.4	46.0	39.9	37.4	37.5	38.7	37.8	38.9	38.3
70°	54.5	55.0	52.3	44.3	38.5	36.0	36.3	37.5	36.6	37.7	37.1
70.5°	52.4	52.8	50.1	42.5	37.0	34.8	35.2	36.3	35.4	36.5	36.0
71°	50.4	50.8	48.1	40.9	35.6	33.5	34.0	35.1	34.3	35.3	34.8
71.5°	48.5	48.8	46.0	39.3	34.2	32.3	32.8	34.0	33.1	34.1	33.6
72°	46.5	46.7	44.0	37.7	32.8	31.1	31.7	32.8	31.9	32.9	32.4
72.5°	44.6	44.8	42.1	36.2	31.5	29.9	30.6	31.6	30.8	31.7	31.3
73°	42.7	42.8	40.3	34.8	30.2	28.8	29.5	30.4	29.6	30.5	30.2
73.5°	40.9	41.0	38.5	33.3	28.9	27.8	28.4	29.3	28.5	29.4	29.0
74°	39.1	39.2	36.7	31.9	27.6	26.7	27.3	28.1	27.4	28.2	27.9
74.5°	37.3	37.4	35.1	30.5	26.4	25.8	26.2	27.0	26.2	27.1	26.8
75°	35.9	35.9	33.5	29.1	25.2	24.9	25.1	25.8	25.1	25.9	25.7
75.5°	34.2	34.2	31.9	27.8	24.1	24.0	24.0	24.7	24.0	24.8	24.6
76°	32.5	32.5	30.3	26.5	22.9	23.1	23.0	23.5	22.9	23.7	23.5
76.5°	30.7	30.8	28.7	25.2	21.8	22.1	21.9	22.4	21.8	22.5	22.4
77°	29.0	29.1	27.1	23.9	20.7	21.2	20.8	21.3	20.7	21.4	21.3
77.5°	27.5	27.6	25.6	22.6	19.6	20.2	19.7	20.2	19.6	20.3	20.2
78°	25.9	26.0	24.2	21.4	18.5	19.3	18.7	19.0	18.4	19.2	19.2
78.5°	24.3	24.5	22.7	20.2	17.5	18.3	17.6	17.9	17.3	18.1	18.1
79°	22.8	22.9	21.3	19.0	16.5	17.3	16.6	16.8	16.2	16.9	17.0
79.5°	21.3	21.5	19.9	17.9	15.5	16.4	15.6	15.7	15.2	15.8	15.9
80°	19.8	20.0	18.5	16.7	14.5	15.4	14.6	14.6	14.1	14.7	14.9
80.5°	18.4	18.6	17.2	15.6	13.5	14.5	13.6	13.4	13.0	13.6	13.9
81°	17.0	17.2	15.9	14.5	12.6	13.5	12.6	12.4	12.0	12.5	12.8
81.5°	15.6	15.8	14.6	13.4	11.7	12.6	11.6	11.2	10.9	11.4	11.8
82°	14.2	14.4	13.4	12.4	10.7	11.7	10.6	10.2	9.9	10.4	10.9
82.5°	12.9	13.1	12.2	11.4	9.9	10.8	9.7	9.2	8.8	9.4	9.9
83°	11.6	11.8	11.1	10.4	9.0	9.9	8.8	8.2	7.8	8.3	9.1
83.5°	10.2	10.4	9.9	9.4	8.2	9.0	7.9	7.3	6.8	7.3	8.2
84°	8.9	9.1	8.9	8.4	7.3	8.1	7.1	6.3	5.8	6.3	7.4
84.5°	7.6	7.9	7.9	7.5	6.5	7.2	6.2	5.3	4.8	5.3	6.5
85°	6.4	6.7	7.0	6.6	5.6	6.3	5.3	4.5	3.9	4.4	5.7
85.5°	5.1	5.5	6.0	5.7	4.8	5.4	4.5	3.8	3.3	3.7	4.9
86°	4.2	4.6	5.1	4.8	4.1	4.6	3.7	3.2	2.8	3.1	4.1
86.5°	3.5	3.8	4.2	4.0	3.3	3.7	2.9	2.6	2.3	2.5	3.4
87°	2.9	3.1	3.4	3.1	2.6	2.9	2.2	2.0	1.7	2.0	2.7
87.5°	2.2	2.3	2.6	2.3	1.9	2.1	1.4	1.3	1.2	1.4	1.9
88°	1.6	1.6	1.8	1.5	1.2	1.3	0.7	0.7	0.7	0.8	1.2
88.5°	0.9	0.9	1.0	0.7	0.5	0.6	0.2	0.2	0.3	0.3	0.5



TEST NUMBER: P775800

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-HCD6TSQLWW-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: P775800

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-HCD6TSQLWW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	421.9	421.9	421.9	421.9	421.9	421.9
0.5°	421.2	422.7	424.3	423.6	424.0	424.5
1°	419.7	422.5	425.5	426.1	427.1	427.9
1.5°	418.2	422.3	426.7	428.3	430.2	431.3
2°	416.6	422.1	427.7	430.5	433.2	434.6
2.5°	415.1	421.8	428.7	432.7	436.1	437.8
3°	413.4	421.4	429.6	434.8	439.0	441.0
3.5°	411.7	421.0	430.5	436.9	441.9	444.1
4°	410.0	420.6	431.3	438.9	444.6	447.1
4.5°	408.2	420.1	432.2	440.8	447.3	450.1
5°	406.4	419.6	432.9	442.7	449.9	453.0
5.5°	404.6	418.9	433.6	444.5	452.5	455.7
6°	402.7	418.3	434.2	446.3	454.9	458.4
6.5°	400.8	417.6	434.7	447.9	457.2	461.1
7°	398.9	416.9	435.3	449.5	459.5	463.6
7.5°	396.9	416.1	435.7	451.0	461.7	466.0
8°	394.9	415.3	436.1	452.5	463.8	468.3
8.5°	392.9	414.4	436.4	453.8	465.8	470.6
9°	390.8	413.5	436.7	455.1	467.7	472.8
9.5°	388.7	412.5	436.9	456.3	469.6	474.9
10°	386.6	411.5	437.0	457.5	471.3	476.8
10.5°	384.4	410.4	437.1	458.5	472.9	478.7
11°	382.2	409.3	437.1	459.5	474.5	480.5
11.5°	380.0	408.2	437.0	460.3	476.0	482.2
12°	377.8	406.9	436.9	461.1	477.3	483.8
12.5°	375.5	405.7	436.8	461.9	478.6	485.3
13°	373.2	404.4	436.5	462.5	479.8	486.6
13.5°	370.8	403.1	436.2	463.1	480.9	487.9
14°	368.4	401.7	435.8	463.6	481.8	489.0
14.5°	366.0	400.3	435.4	463.9	482.7	490.1
15°	363.6	398.8	434.9	464.3	483.5	491.0
15.5°	361.2	397.3	434.4	464.5	484.1	491.9
16°	358.8	395.8	433.7	464.6	484.7	492.6
16.5°	356.3	394.2	433.0	464.6	485.1	493.2
17°	353.7	392.6	432.3	464.5	485.4	493.7
17.5°	351.2	390.9	431.5	464.4	485.7	494.1
18°	348.7	389.2	430.6	464.2	485.8	494.4
18.5°	346.1	387.5	429.6	463.9	485.8	494.6
19°	343.6	385.7	428.7	463.4	485.8	494.6
19.5°	340.9	383.9	427.6	462.9	485.6	494.6
20°	338.3	382.1	426.5	462.4	485.3	494.5
20.5°	335.7	380.2	425.3	461.7	484.9	494.2
21°	333.0	378.2	424.0	460.9	484.4	493.9

TEST NUMBER: P775800

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-HCD6TSQLWW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	324.8	372.2	419.9	458.1	482.3	492.1
23°	322.1	370.1	418.4	457.0	481.4	491.4
23.5°	319.3	368.0	416.8	455.8	480.4	490.5
24°	316.6	365.8	415.2	454.5	479.3	489.5
24.5°	313.7	363.5	413.5	453.2	478.1	488.4
25°	310.9	361.2	411.8	451.7	476.8	487.3
25.5°	308.1	358.8	409.9	450.2	475.4	486.0
26°	305.2	356.4	408.1	448.5	473.9	484.6
26.5°	302.3	353.9	406.1	446.9	472.3	483.1
27°	299.4	351.3	404.1	445.1	470.8	481.6
27.5°	296.4	348.5	401.9	443.2	469.0	480.0
28°	293.3	345.8	399.7	441.3	467.2	478.2
28.5°	290.3	342.9	397.4	439.3	465.2	476.4
29°	287.2	339.9	394.9	437.2	463.3	474.5
29.5°	284.0	336.9	392.4	435.1	461.2	472.5
30°	280.7	333.8	389.7	432.8	459.1	470.5
30.5°	277.5	330.4	386.9	430.5	456.8	468.4
31°	274.2	327.2	384.0	428.1	454.5	466.4
31.5°	270.9	323.8	381.0	425.7	452.2	464.4
32°	267.6	320.4	377.9	423.0	449.7	462.4
32.5°	264.1	316.8	374.6	420.4	447.3	460.0
33°	260.7	313.3	371.3	417.8	444.8	457.3
33.5°	257.3	309.7	367.8	415.1	442.3	454.0
34°	253.8	305.9	364.2	412.3	440.0	448.9
34.5°	250.2	302.1	360.6	409.4	437.5	444.4
35°	246.7	298.2	356.8	406.4	434.5	437.5
35.5°	243.2	294.0	352.8	403.4	431.3	431.1
36°	239.5	289.9	348.8	400.2	427.0	424.8
36.5°	235.8	285.5	344.7	397.0	421.7	416.8
37°	232.2	281.1	340.3	393.7	416.7	410.3
37.5°	228.5	276.5	335.8	390.3	409.7	402.4
38°	224.8	271.8	331.0	386.8	403.8	394.2
38.5°	220.8	267.1	325.9	383.1	397.1	386.8
39°	217.0	262.3	320.9	379.6	389.4	378.0
39.5°	213.2	257.5	315.6	376.0	383.4	370.4
40°	209.3	252.6	310.0	372.2	375.5	362.1
40.5°	205.4	247.6	304.4	368.2	367.9	352.9
41°	201.4	242.5	298.7	364.5	360.9	345.4
41.5°	197.5	237.7	293.0	360.7	352.6	336.3
42°	193.6	232.5	287.1	356.7	345.2	328.0
42.5°	189.6	227.3	281.2	352.6	337.3	319.8
43°	185.7	222.2	275.1	348.2	328.8	310.5
43.5°	181.7	217.1	269.0	343.4	321.7	303.3

TEST NUMBER: P775800

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-HCD6TSQLWW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	169.9	201.6	250.3	325.2	297.9	278.4
45.5°	165.9	196.5	244.1	317.6	289.2	269.6
46°	161.9	191.4	237.7	310.6	282.3	262.9
46.5°	158.0	186.3	231.3	303.3	274.2	254.3
47°	154.2	181.3	225.0	295.0	266.8	247.2
47.5°	150.4	176.1	218.6	287.6	259.4	239.9
48°	146.5	171.1	212.3	279.5	251.1	231.6
48.5°	142.7	166.2	206.1	271.2	244.9	225.7
49°	138.9	161.2	199.8	263.7	236.9	217.4
49.5°	135.3	156.4	193.5	255.2	230.4	211.8
50°	131.5	151.6	187.3	247.3	223.6	204.7
50.5°	127.7	146.8	181.1	239.6	216.0	198.2
51°	124.2	142.2	175.0	231.4	210.2	192.5
51.5°	120.7	137.5	169.1	224.1	202.6	185.2
52°	117.2	133.2	163.3	216.2	197.3	180.6
52.5°	113.6	128.9	157.5	208.7	190.8	173.8
53°	110.3	124.6	151.7	201.7	184.6	169.1
53.5°	107.0	120.5	146.4	194.1	179.0	163.6
54°	103.7	116.6	140.9	187.4	172.3	158.1
54.5°	100.6	112.9	135.8	180.3	167.6	153.6
55°	97.4	109.1	130.8	173.8	161.1	148.0
55.5°	94.4	105.5	126.1	167.4	156.6	144.2
56°	91.5	102.0	121.5	160.8	150.8	138.5
56.5°	88.6	98.8	117.1	155.1	146.1	135.0
57°	86.0	95.5	112.8	149.0	141.1	130.3
57.5°	83.3	92.3	108.8	143.5	136.0	126.6
58°	80.7	89.3	104.9	137.6	131.8	122.6
58.5°	78.1	86.4	101.1	132.5	126.8	118.6
59°	75.4	83.6	97.6	127.4	123.1	115.1
59.5°	73.0	80.8	94.2	122.4	118.4	111.1
60°	70.7	78.2	90.9	117.7	115.0	107.6
60.5°	68.5	75.6	87.7	113.0	110.5	104.0
61°	66.3	73.1	84.6	108.8	107.3	100.6
61.5°	64.2	70.8	81.7	104.4	103.2	97.4
62°	62.1	68.5	78.9	100.6	100.1	94.3
62.5°	60.1	66.2	76.2	96.7	96.3	91.1
63°	58.2	64.0	73.6	93.0	93.3	88.3
63.5°	56.3	61.9	71.0	89.4	89.9	85.3
64°	54.5	59.9	68.5	86.1	87.0	82.7
64.5°	52.8	57.9	66.2	82.7	83.7	79.8
65°	51.1	56.0	63.9	79.6	81.1	77.4
65.5°	49.4	54.1	61.7	76.6	78.0	74.8
66°	47.8	52.3	59.5	73.7	75.6	72.4

TEST NUMBER: P775800

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-HCD6TSQLWW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	43.1	47.0	53.5	65.7	67.7	65.2
68°	41.7	45.3	51.5	63.2	65.4	63.0
68.5°	40.3	43.7	49.7	60.8	63.0	60.8
69°	38.9	42.2	47.9	58.5	60.7	58.6
69.5°	37.6	40.7	46.0	56.2	58.5	56.5
70°	36.3	39.2	44.3	54.0	56.2	54.5
70.5°	35.0	37.7	42.6	51.9	54.1	52.4
71°	33.8	36.2	41.0	49.8	52.0	50.4
71.5°	32.6	34.9	39.4	47.8	50.0	48.5
72°	31.4	33.6	37.8	45.7	48.0	46.5
72.5°	30.2	32.3	36.3	43.9	45.9	44.6
73°	29.1	31.1	34.9	42.0	44.1	42.7
73.5°	28.0	29.8	33.5	40.1	42.1	40.9
74°	27.0	28.5	32.1	38.4	40.3	39.1
74.5°	25.9	27.3	30.7	36.6	38.5	37.3
75°	25.0	26.1	29.3	35.0	36.7	35.9
75.5°	24.1	24.9	28.0	33.4	35.1	34.2
76°	23.2	23.7	26.6	31.8	33.4	32.5
76.5°	22.2	22.6	25.4	30.2	31.8	30.7
77°	21.3	21.5	24.1	28.6	30.1	29.0
77.5°	20.3	20.4	22.9	27.1	28.5	27.5
78°	19.3	19.3	21.7	25.6	26.9	25.9
78.5°	18.4	18.3	20.4	24.1	25.4	24.3
79°	17.4	17.2	19.3	22.6	23.8	22.8
79.5°	16.4	16.2	18.1	21.2	22.3	21.3
80°	15.5	15.2	17.0	19.8	20.8	19.8
80.5°	14.5	14.2	15.9	18.5	19.4	18.4
81°	13.5	13.3	14.8	17.2	17.9	17.0
81.5°	12.6	12.3	13.7	15.9	16.5	15.6
82°	11.7	11.4	12.6	14.6	15.1	14.2
82.5°	10.8	10.5	11.6	13.4	13.8	12.9
83°	9.9	9.6	10.6	12.2	12.5	11.6
83.5°	9.0	8.7	9.6	11.1	11.1	10.2
84°	8.1	7.9	8.6	10.0	9.8	8.9
84.5°	7.2	7.0	7.7	8.9	8.6	7.6
85°	6.3	6.2	6.7	7.9	7.5	6.4
85.5°	5.4	5.4	5.8	6.9	6.4	5.1
86°	4.5	4.6	4.9	6.0	5.4	4.2
86.5°	3.7	3.8	4.0	5.0	4.5	3.5
87°	2.9	3.0	3.2	4.1	3.7	2.9
87.5°	2.1	2.3	2.4	3.3	2.9	2.2
88°	1.3	1.5	1.6	2.5	2.1	1.6
88.5°	0.6	0.8	0.7	1.7	1.4	0.9



TEST NUMBER: P775800

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-HCD6TSQLWW-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°	493.4	487.5	466.1	430.8	382.4	335.2	295.6	273.7	266.8	273.5	294.7
22°	492.8	486.9	465.3	429.6	380.5	332.7	292.4	270.4	263.5	270.2	291.6



44°	294.3	314.0	343.0	275.2	218.0	182.0	154.2	136.3	130.3	136.9	154.9
44.5°	286.5	306.6	336.1	268.8	212.8	178.0	151.1	133.4	127.4	134.1	151.8



66.5°	69.9	71.5	69.3	57.8	50.0	46.1	44.7	46.2	45.2	46.5	45.6
67°	67.6	68.8	66.6	55.7	48.2	44.5	43.5	44.9	43.9	45.2	44.4



89°	0.3	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.0	0.1	0.1
89.5°	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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21.5°	330.2	376.3	422.6	460.1	483.8	493.4
22°	327.5	374.3	421.3	459.2	483.1	492.8



44°	177.7	212.0	262.7	337.6	313.1	294.3
44.5°	173.9	206.9	256.5	331.2	305.6	286.5



66.5°	46.1	50.5	57.5	71.0	72.7	69.9
67°	44.6	48.8	55.4	68.2	70.4	67.6

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89°	0.1	0.2	0.2	0.9	0.6	0.3
89.5°	0.0	0.0	0.0	0.2	0.1	0.0

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(END OF REPORT)