

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: P775789

Luminaire Tested: HCDJBS510CSD-HCD6TRMW-1000lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775789
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-HCD6TRMW-1000lm-5000K
Description: 6 INCH ROUND MEDIUM MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

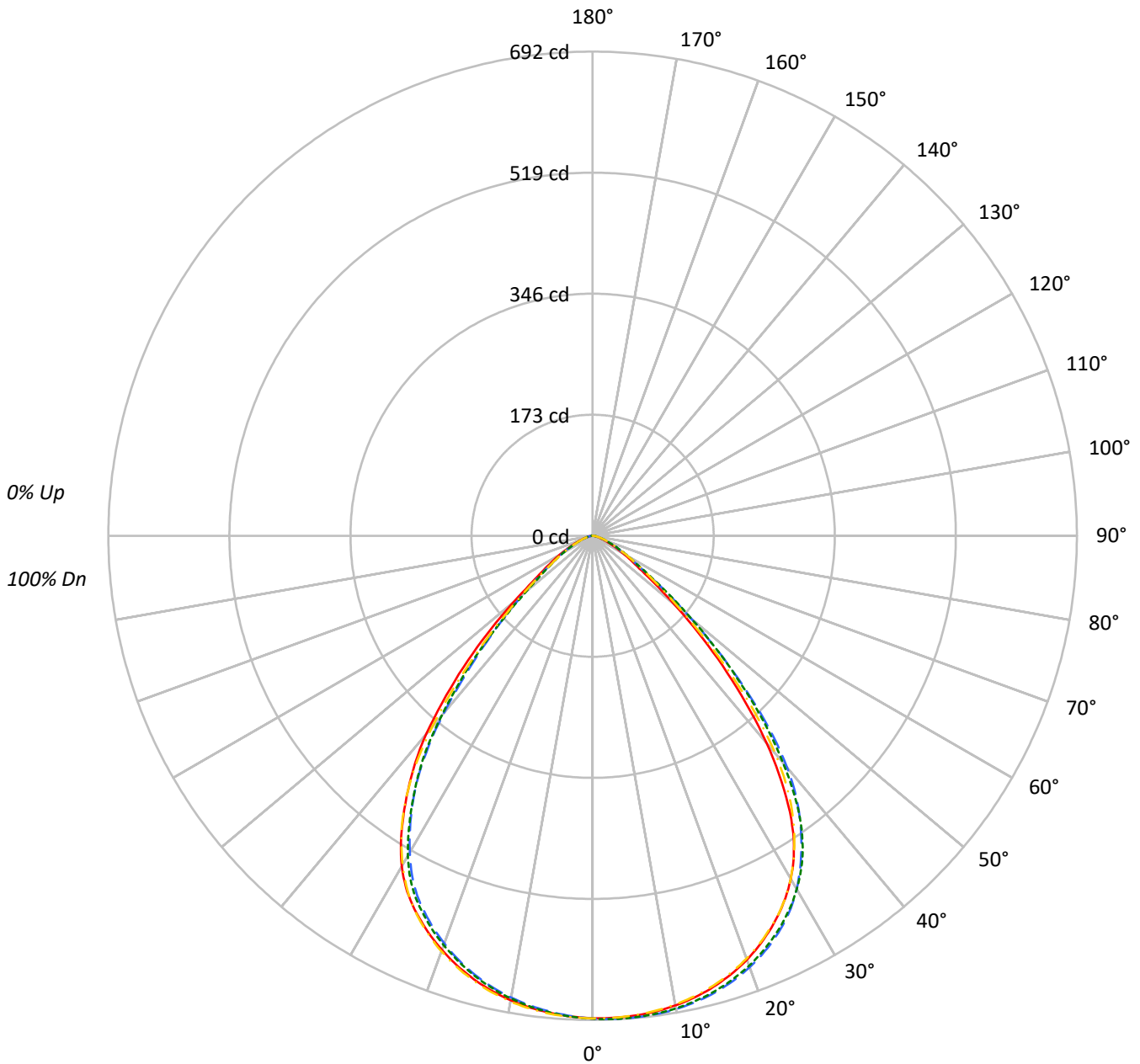
Lumens per Lamp: N/A
Luminaire Lumens: 1152.6 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



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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																			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90																			
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81																			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72																			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65																			
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59																			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53																			
7	75	63	56	51	73	63	56	51	61	55	51	60	54	50	59	54	50	48																			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44																			
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40																			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	37820	37820	37820	37820
5°	37888	38020	37679	37657
10°	37947	38176	37524	37380
15°	37883	38252	37236	36958
20°	37617	38142	36742	36321
25°	37012	37762	35996	35391
30°	35854	36923	34512	33436
35°	33114	34920	31200	29620
40°	27673	30264	26442	24038
45°	20374	23336	19529	17033
50°	13074	15727	12562	10507
55°	7818	9491	8210	7120
60°	5504	6447	5953	5175
65°	3762	4579	4190	3710
70°	2581	3318	2917	2677
75°	1779	2457	2076	1949
80°	1200	1894	1484	1389
85°	566	1447	881	818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 24034 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	5.7
10°-20°	186.7	16.2
20°-30°	277.2	24.0
30°-40°	297.5	25.8
40°-50°	199.3	17.3
50°-60°	81.1	7.0
60°-70°	32.4	2.8
70°-80°	11.1	1.0
80°-90°	2.0	0.2
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°	529.2	45.9
0°-40°	826.6	71.7
0°-60°	1107.1	96.1
0°-90°	1152.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1152.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	690	690	690	690	690	
5°	688	691	685	684	688	66
15°	668	674	656	651	668	188
25°	612	624	595	585	612	281
35°	495	522	466	443	495	304
45°	263	301	252	220	263	203
55°	82	99	86	74	82	79
65°	29	35	32	29	29	30
75°	8	12	10	9	8	9
85°	1	2	1	1	1	1
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°	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9
0.5°	689.5	689.9	690.3	690.6	690.7	690.6	689.8	689.1	689.2	689.2	689.5
1°	689.8	690.2	690.6	690.9	691.0	690.8	689.8	689.0	688.9	688.8	689.0
1.5°	689.8	690.4	690.9	691.2	691.1	690.8	689.8	688.8	688.7	688.3	688.5
2°	689.6	690.5	691.1	691.5	691.2	690.9	689.6	688.6	688.3	687.7	687.8
2.5°	689.5	690.6	691.2	691.6	691.4	690.9	689.5	688.3	687.8	687.2	687.2
3°	689.4	690.6	691.4	691.7	691.4	690.8	689.3	687.9	687.4	686.6	686.6
3.5°	689.3	690.6	691.5	691.7	691.4	690.7	689.0	687.5	686.8	685.8	685.7
4°	689.1	690.6	691.4	691.7	691.2	690.5	688.7	687.0	686.1	685.1	685.0
4.5°	688.8	690.4	691.4	691.7	691.1	690.3	688.4	686.6	685.5	684.2	684.1
5°	688.5	690.3	691.2	691.5	690.9	690.0	687.8	685.9	684.7	683.4	683.1
5.5°	688.2	690.0	691.0	691.4	690.7	689.5	687.4	685.3	684.0	682.4	682.1
6°	687.6	689.8	690.8	691.1	690.4	689.1	686.9	684.5	683.1	681.4	681.1
6.5°	687.1	689.3	690.5	690.8	690.0	688.7	686.2	683.8	682.3	680.4	679.9
7°	686.6	689.0	690.2	690.5	689.6	688.2	685.5	682.9	681.3	679.2	678.8
7.5°	685.9	688.5	689.8	690.1	689.1	687.5	684.8	682.1	680.3	678.0	677.5
8°	685.2	687.9	689.3	689.6	688.6	686.9	684.0	681.1	679.2	676.7	676.2
8.5°	684.4	687.4	688.8	689.1	688.0	686.2	683.1	680.1	677.9	675.5	674.8
9°	683.5	686.8	688.3	688.6	687.3	685.4	682.3	679.0	676.7	674.1	673.2
9.5°	682.6	686.0	687.5	687.9	686.6	684.6	681.2	677.8	675.5	672.6	671.7
10°	681.7	685.3	686.9	687.2	685.8	683.8	680.2	676.6	674.1	671.0	670.2
10.5°	680.6	684.3	686.0	686.4	684.8	682.7	679.1	675.3	672.7	669.4	668.5
11°	679.4	683.5	685.2	685.6	684.0	681.8	677.9	674.0	671.1	667.8	666.7
11.5°	678.2	682.4	684.2	684.7	682.9	680.6	676.6	672.5	669.5	666.0	664.9
12°	676.9	681.3	683.3	683.7	682.0	679.3	675.3	671.0	667.8	664.1	663.0
12.5°	675.5	680.1	682.2	682.6	680.8	678.1	673.9	669.4	666.1	662.1	661.0
13°	674.1	678.9	681.1	681.5	679.5	676.7	672.4	667.7	664.2	660.1	658.9
13.5°	672.6	677.6	679.8	680.3	678.2	675.4	670.8	666.0	662.2	658.0	656.7
14°	671.0	676.3	678.6	679.0	677.0	673.9	669.2	664.1	660.3	655.7	654.4
14.5°	669.3	674.7	677.2	677.7	675.5	672.3	667.4	662.1	658.2	653.5	652.0
15°	667.5	673.2	675.7	676.3	674.0	670.7	665.6	660.1	656.1	651.2	649.6
15.5°	665.7	671.5	674.1	674.8	672.3	669.0	663.7	658.2	653.7	648.6	647.0
16°	663.6	669.8	672.5	673.1	670.6	667.2	661.8	656.0	651.5	646.0	644.3
16.5°	661.6	668.0	670.8	671.4	668.9	665.2	659.8	653.7	649.0	643.5	641.7
17°	659.4	666.2	669.1	669.7	666.9	663.3	657.7	651.4	646.5	640.7	638.9
17.5°	657.2	664.2	667.2	667.8	665.0	661.2	655.4	649.0	643.9	637.8	635.9
18°	654.9	662.0	665.1	665.9	662.9	659.1	653.1	646.5	641.2	635.0	632.9
18.5°	652.4	659.9	663.1	663.7	660.8	656.8	650.6	643.9	638.6	632.0	629.8
19°	650.0	657.6	660.9	661.6	658.5	654.5	648.2	641.2	635.7	629.0	626.6
19.5°	647.4	655.2	658.6	659.4	656.3	652.0	645.6	638.6	632.8	625.8	623.3
20°	644.8	652.8	656.3	657.1	653.8	649.5	643.0	635.7	629.8	622.6	620.0
20.5°	642.0	650.2	653.7	654.7	651.4	646.9	640.2	632.8	626.7	619.1	616.6
21°	639.0	647.5	651.3	652.1	648.7	644.1	637.3	629.8	623.6	615.8	613.0



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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°	629.7	638.9	642.8	644.0	640.4	635.5	628.2	620.2	613.6	604.8	601.8
23°	626.3	635.8	640.0	641.0	637.3	632.3	624.9	616.9	610.0	600.9	597.9
23.5°	622.8	632.6	636.8	637.9	634.2	629.0	621.5	613.5	606.5	597.1	593.8
24°	619.3	629.3	633.7	634.9	631.0	625.7	618.1	609.9	602.8	593.2	589.6
24.5°	615.7	625.8	630.2	631.5	627.7	622.4	614.7	606.3	598.9	589.1	585.5
25°	611.9	622.3	626.9	628.2	624.3	618.9	611.1	602.5	595.1	585.0	581.2
25.5°	608.0	618.8	623.2	624.6	620.8	615.2	607.3	598.8	591.1	580.6	576.7
26°	604.0	615.0	619.6	621.1	617.2	611.6	603.6	594.9	587.0	576.0	572.0
26.5°	599.9	611.1	615.6	617.4	613.4	607.7	599.6	590.8	582.7	571.0	566.8
27°	595.7	606.9	611.7	613.4	609.5	603.7	595.4	586.5	578.2	565.8	561.4
27.5°	591.0	602.8	607.5	609.4	605.4	599.7	591.0	581.9	573.6	560.4	555.6
28°	586.7	598.3	603.0	605.1	601.3	595.4	586.5	577.1	568.4	554.8	549.6
28.5°	581.7	593.6	598.1	600.6	597.2	591.0	581.8	572.2	563.1	548.9	543.3
29°	576.9	588.7	593.4	595.9	592.6	586.6	576.7	566.8	557.6	542.4	536.5
29.5°	571.6	583.7	588.3	591.0	588.0	581.8	571.6	561.4	551.6	535.9	529.5
30°	566.4	578.5	583.0	586.0	583.3	577.0	566.1	555.5	545.2	529.2	522.4
30.5°	560.5	572.9	577.4	580.8	578.5	571.6	560.4	549.4	538.7	522.2	515.1
31°	554.9	567.2	571.8	575.4	573.2	566.3	554.7	543.1	531.7	514.7	507.5
31.5°	548.6	561.3	565.9	569.5	567.8	560.8	548.5	536.5	524.4	507.0	500.1
32°	542.1	555.0	559.6	563.7	562.3	554.8	542.3	529.3	516.8	499.2	492.3
32.5°	535.2	548.5	553.3	557.5	556.3	548.8	535.7	522.1	508.8	491.0	484.5
33°	528.2	541.8	546.8	551.2	550.1	542.5	529.0	514.5	500.7	482.7	476.3
33.5°	520.6	535.1	540.2	544.6	543.6	535.8	522.2	506.8	492.3	474.1	468.3
34°	512.4	527.9	533.6	537.7	536.9	529.2	515.1	498.7	483.8	465.0	459.5
34.5°	503.6	520.9	526.6	530.9	529.5	521.6	507.9	490.2	475.2	456.1	451.1
35°	494.8	513.1	519.5	523.6	521.8	514.3	500.2	481.8	466.2	446.9	441.9
35.5°	485.5	505.4	512.3	516.2	514.0	506.5	492.5	473.6	457.6	437.5	432.5
36°	475.5	497.3	505.0	508.6	505.5	498.7	484.4	464.6	448.6	427.9	422.5
36.5°	465.1	489.2	497.1	501.0	496.6	490.1	475.9	456.1	439.7	418.1	412.5
37°	454.7	480.4	489.2	492.8	487.2	481.2	466.8	447.0	430.3	408.2	401.7
37.5°	443.8	471.3	480.6	484.2	477.3	471.7	457.6	438.4	421.0	398.4	390.7
38°	432.7	461.6	472.1	475.5	466.8	462.4	448.0	428.9	411.5	387.5	379.6
38.5°	421.4	451.8	462.8	466.1	456.3	451.8	438.1	419.8	401.8	376.5	368.2
39°	410.1	441.4	453.1	456.5	445.6	441.1	427.7	409.8	391.7	365.2	356.0
39.5°	398.5	430.2	442.8	446.3	434.4	429.8	416.9	399.9	380.8	354.2	343.7
40°	386.7	418.3	432.4	435.4	422.9	418.0	405.8	388.8	369.5	341.8	331.0
40.5°	374.7	406.2	421.2	423.9	411.7	405.5	394.0	377.7	357.7	329.7	318.1
41°	362.5	393.7	409.4	411.8	400.1	393.1	382.0	365.8	345.5	317.9	305.4
41.5°	350.0	381.1	397.6	399.4	388.5	380.5	369.3	353.9	333.5	306.1	292.5
42°	337.2	368.3	385.2	386.5	376.3	367.6	356.1	341.0	321.1	293.7	280.5
42.5°	324.3	356.0	372.6	373.7	364.4	354.4	343.3	328.6	309.5	282.1	268.8
43°	311.5	343.5	359.3	361.1	352.1	341.9	330.4	315.7	297.9	270.1	257.2
43.5°	299.0	331.1	346.4	348.3	339.1	328.7	317.6	303.0	286.3	258.7	245.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	262.8	293.5	306.4	310.0	301.0	289.9	278.6	266.2	251.9	224.8	213.9
45.5°	251.2	280.9	292.7	297.4	288.3	277.3	265.9	254.2	240.5	214.3	203.9
46°	239.3	268.5	279.2	285.0	276.4	264.8	253.0	242.2	229.3	203.9	194.3
46.5°	227.5	256.3	266.3	272.6	264.5	252.9	240.7	230.3	218.1	194.1	184.9
47°	215.8	243.7	253.3	259.9	252.7	241.1	228.4	218.1	207.1	184.1	176.0
47.5°	204.7	231.8	240.7	247.4	240.6	229.7	216.7	206.6	196.6	175.1	167.5
48°	193.7	219.8	228.4	235.4	228.9	218.8	205.3	195.4	186.2	166.1	159.4
48.5°	182.9	208.2	216.7	223.5	217.5	208.2	194.7	184.5	176.2	157.6	151.3
49°	172.7	196.8	205.2	211.6	206.3	197.5	184.1	174.0	166.0	149.3	143.8
49.5°	163.0	185.5	194.1	200.4	195.2	187.1	174.2	164.0	156.4	141.4	136.6
50°	153.3	174.6	182.9	189.1	184.4	177.1	164.4	154.6	147.3	133.9	129.6
50.5°	144.1	164.1	172.6	178.1	173.9	167.3	155.4	145.6	138.4	126.9	123.0
51°	135.3	153.8	162.5	167.3	164.1	157.9	146.8	137.2	130.1	120.3	116.7
51.5°	126.9	144.0	152.8	157.4	154.4	148.9	138.8	129.4	122.4	113.9	110.7
52°	118.9	134.9	143.4	147.7	145.3	140.0	131.0	122.0	115.5	107.8	105.0
52.5°	111.3	126.3	134.5	138.3	136.1	131.6	123.8	115.1	109.0	102.1	99.7
53°	104.2	118.3	126.1	129.3	127.6	123.9	116.8	109.0	103.4	97.0	95.1
53.5°	97.8	110.9	118.1	121.2	119.5	116.5	110.4	103.2	98.3	92.5	90.4
54°	91.8	103.8	110.8	113.5	111.8	109.6	104.6	98.0	94.1	88.0	85.8
54.5°	86.6	97.5	103.5	106.4	104.7	103.2	99.0	93.7	90.0	83.5	81.2
55°	81.8	91.8	96.9	99.8	99.3	98.0	94.3	89.6	85.9	79.0	76.5
55.5°	77.3	86.6	90.9	93.8	93.9	92.9	89.8	85.3	81.8	75.2	72.8
56°	73.3	81.6	85.4	88.3	88.5	87.7	85.1	81.0	77.6	71.6	69.4
56.5°	69.8	77.0	80.5	83.2	83.0	82.6	80.4	76.8	74.1	68.3	66.4
57°	66.8	72.9	76.0	78.5	77.7	77.5	75.8	73.2	70.8	65.7	63.8
57.5°	64.0	69.4	72.0	74.2	73.8	73.7	72.1	69.8	67.7	62.9	61.1
58°	61.2	66.4	68.7	70.5	70.1	70.0	68.8	66.9	65.0	60.2	58.4
58.5°	58.4	63.5	65.8	67.4	67.3	67.2	66.0	64.3	62.3	57.6	55.6
59°	55.5	60.8	63.0	64.6	64.4	64.4	63.2	61.5	59.6	54.9	53.1
59.5°	52.9	57.9	60.1	61.8	61.6	61.6	60.6	58.7	56.8	52.3	50.6
60°	50.2	55.1	57.2	59.0	58.8	58.7	57.7	56.2	54.3	49.9	48.3
60.5°	47.5	52.3	54.5	56.2	56.0	56.0	55.0	53.5	51.8	47.5	45.9
61°	45.1	49.8	51.8	53.4	53.3	53.3	52.5	51.1	49.4	45.3	43.7
61.5°	42.7	47.2	49.3	50.7	50.5	50.7	49.9	48.6	46.9	43.2	41.7
62°	40.5	44.9	46.7	48.2	48.1	48.2	47.5	46.3	44.6	41.0	39.7
62.5°	38.3	42.6	44.3	45.7	45.6	45.8	45.2	44.0	42.3	39.0	37.7
63°	36.4	40.4	42.1	43.4	43.4	43.5	43.0	41.9	40.2	37.0	35.8
63.5°	34.5	38.1	40.0	41.3	41.2	41.4	40.8	39.9	38.1	35.1	34.1
64°	32.6	36.2	38.2	39.1	39.1	39.2	38.8	38.0	36.0	33.3	32.4
64.5°	30.8	34.4	36.2	37.3	37.2	37.3	36.9	35.9	34.1	31.6	30.8
65°	29.0	32.6	34.4	35.5	35.3	35.5	35.1	34.1	32.3	30.0	29.2
65.5°	27.3	30.8	32.6	33.7	33.5	33.7	33.3	32.4	30.6	28.4	27.8
66°	25.8	29.1	30.8	32.0	31.8	32.0	31.7	30.7	28.9	26.8	26.3



TEST NUMBER: P775789

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	21.6	24.6	26.2	27.1	27.1	27.3	27.1	26.1	24.4	22.7	22.5
68°	20.5	23.3	24.8	25.7	25.7	25.9	25.7	24.7	23.0	21.4	21.3
68.5°	19.2	22.0	23.5	24.3	24.3	24.5	24.3	23.5	21.7	20.3	20.1
69°	18.1	20.8	22.3	23.0	23.0	23.2	23.1	22.2	20.6	19.1	19.1
69.5°	17.1	19.6	21.0	21.7	21.9	22.0	21.9	20.9	19.4	18.0	18.0
70°	16.1	18.4	19.9	20.7	20.7	20.9	20.7	19.8	18.2	17.1	17.1
70.5°	15.1	17.5	18.8	19.5	19.5	19.7	19.6	18.7	17.2	16.0	16.1
71°	14.2	16.4	17.8	18.4	18.5	18.7	18.5	17.7	16.2	15.1	15.2
71.5°	13.3	15.5	16.8	17.5	17.5	17.7	17.6	16.6	15.2	14.2	14.4
72°	12.5	14.6	15.9	16.5	16.5	16.7	16.6	15.7	14.4	13.3	13.5
72.5°	11.7	13.8	14.9	15.6	15.6	15.8	15.7	14.8	13.5	12.6	12.8
73°	11.0	12.9	14.1	14.7	14.7	14.9	14.8	13.9	12.7	11.8	12.0
73.5°	10.3	12.0	13.3	13.9	14.0	14.1	14.0	13.1	11.9	11.1	11.3
74°	9.7	11.3	12.5	13.1	13.1	13.3	13.1	12.3	11.2	10.3	10.7
74.5°	9.1	10.7	11.7	12.4	12.4	12.5	12.4	11.5	10.4	9.7	9.9
75°	8.4	10.0	11.1	11.6	11.6	11.8	11.6	10.9	9.8	9.2	9.3
75.5°	7.9	9.4	10.3	10.9	11.0	11.1	11.0	10.1	9.2	8.5	8.7
76°	7.4	8.7	9.7	10.2	10.3	10.4	10.2	9.5	8.6	8.0	8.2
76.5°	6.8	8.1	9.2	9.6	9.7	9.8	9.6	9.0	8.1	7.4	7.7
77°	6.3	7.6	8.5	9.1	9.1	9.2	9.1	8.4	7.5	6.8	7.1
77.5°	5.9	7.0	8.0	8.4	8.5	8.6	8.5	7.8	6.9	6.3	6.6
78°	5.4	6.5	7.5	7.9	8.0	8.1	8.0	7.2	6.4	5.9	6.1
78.5°	5.0	6.1	6.9	7.4	7.5	7.6	7.4	6.7	6.0	5.4	5.7
79°	4.6	5.7	6.4	6.9	6.9	7.0	6.8	6.2	5.5	5.0	5.2
79.5°	4.2	5.2	6.0	6.4	6.4	6.5	6.4	5.8	5.1	4.6	4.8
80°	3.8	4.8	5.5	6.0	6.0	6.1	5.9	5.2	4.7	4.2	4.4
80.5°	3.5	4.4	5.1	5.5	5.5	5.7	5.4	4.8	4.3	3.8	4.1
81°	3.2	3.9	4.7	5.1	5.1	5.2	5.0	4.5	3.9	3.4	3.6
81.5°	2.8	3.6	4.3	4.7	4.7	4.8	4.7	4.1	3.5	3.1	3.3
82°	2.6	3.3	3.9	4.4	4.4	4.4	4.3	3.6	3.2	2.8	3.0
82.5°	2.2	2.9	3.6	3.9	3.9	4.1	3.9	3.3	2.9	2.5	2.7
83°	1.9	2.6	3.3	3.6	3.6	3.7	3.5	3.0	2.6	2.1	2.3
83.5°	1.7	2.2	3.0	3.3	3.3	3.4	3.2	2.7	2.2	1.8	2.0
84°	1.4	2.0	2.6	3.0	3.0	3.1	2.9	2.3	1.9	1.5	1.8
84.5°	1.2	1.7	2.3	2.7	2.7	2.8	2.6	2.0	1.7	1.3	1.6
85°	0.9	1.4	2.0	2.3	2.3	2.5	2.2	1.7	1.4	1.0	1.3
85.5°	0.6	1.2	1.8	2.1	2.1	2.1	2.0	1.5	1.2	0.9	1.1
86°	0.5	1.0	1.5	1.8	1.8	1.9	1.7	1.3	0.9	0.6	0.9
86.5°	0.4	0.7	1.3	1.6	1.6	1.6	1.5	1.1	0.7	0.5	0.6
87°	0.3	0.6	1.1	1.3	1.3	1.4	1.3	0.9	0.5	0.4	0.4
87.5°	0.2	0.5	0.9	1.1	1.1	1.1	1.1	0.7	0.4	0.3	0.3
88°	0.1	0.3	0.6	0.9	0.9	0.9	0.7	0.5	0.3	0.1	0.1
88.5°	0.0	0.2	0.4	0.6	0.6	0.6	0.5	0.4	0.2	0.0	0.0



TEST NUMBER: P775789

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-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: P775789

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	689.9	689.9	689.9	689.9	689.9	689.9
0.5°	689.8	690.1	690.2	689.5	689.2	689.5
1°	689.3	689.6	689.9	689.4	689.2	689.8
1.5°	688.8	689.1	689.5	689.2	689.1	689.8
2°	688.2	688.7	689.0	688.9	688.9	689.6
2.5°	687.5	688.0	688.6	688.6	688.7	689.5
3°	686.8	687.4	688.0	688.2	688.5	689.4
3.5°	686.0	686.8	687.4	687.7	688.2	689.3
4°	685.3	685.9	686.8	687.2	687.8	689.1
4.5°	684.3	685.2	686.0	686.6	687.4	688.8
5°	683.4	684.3	685.2	685.9	686.9	688.5
5.5°	682.3	683.3	684.3	685.3	686.3	688.2
6°	681.2	682.3	683.4	684.4	685.7	687.6
6.5°	680.2	681.2	682.4	683.7	685.1	687.1
7°	678.8	679.9	681.3	682.7	684.2	686.6
7.5°	677.6	678.8	680.3	681.8	683.5	685.9
8°	676.2	677.4	679.1	680.7	682.6	685.2
8.5°	674.8	676.1	677.8	679.6	681.8	684.4
9°	673.3	674.6	676.4	678.5	680.7	683.5
9.5°	671.7	673.1	675.0	677.2	679.6	682.6
10°	670.1	671.5	673.5	675.9	678.5	681.7
10.5°	668.4	669.9	672.1	674.4	677.3	680.6
11°	666.5	668.1	670.4	672.9	676.0	679.4
11.5°	664.7	666.3	668.6	671.3	674.6	678.2
12°	662.7	664.4	666.7	669.7	673.1	676.9
12.5°	660.8	662.4	664.9	668.0	671.6	675.5
13°	658.5	660.3	662.9	666.2	670.0	674.1
13.5°	656.3	658.2	660.9	664.3	668.3	672.6
14°	653.9	656.0	658.7	662.2	666.5	671.0
14.5°	651.6	653.5	656.5	660.2	664.7	669.3
15°	649.1	651.2	654.3	658.1	662.8	667.5
15.5°	646.6	648.7	651.8	655.9	660.6	665.7
16°	643.9	646.0	649.2	653.5	658.6	663.6
16.5°	641.2	643.5	646.7	651.2	656.4	661.6
17°	638.4	640.7	644.1	648.6	654.0	659.4
17.5°	635.6	637.8	641.4	646.0	651.6	657.2
18°	632.4	635.0	638.6	643.5	649.1	654.9
18.5°	629.4	632.0	635.7	640.6	646.5	652.4
19°	626.2	628.9	632.7	637.7	643.8	650.0
19.5°	622.9	625.8	629.6	634.9	641.1	647.4
20°	619.5	622.6	626.5	631.9	638.3	644.8
20.5°	616.1	619.3	623.3	628.8	635.3	642.0
21°	612.6	615.9	619.9	625.5	632.2	639.0

TEST NUMBER: P775789

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	601.4	605.1	609.4	615.2	622.4	629.7
23°	597.4	601.3	605.6	611.6	618.8	626.3
23.5°	593.4	597.2	601.9	607.9	615.1	622.8
24°	589.3	593.3	597.9	603.9	611.4	619.3
24.5°	585.2	589.2	593.9	600.0	607.6	615.7
25°	580.9	585.1	589.8	595.9	603.6	611.9
25.5°	576.4	580.7	585.6	591.8	599.6	608.0
26°	571.5	576.2	580.9	587.3	595.4	604.0
26.5°	566.5	571.3	576.1	582.5	591.1	599.9
27°	561.1	566.3	570.9	577.6	586.7	595.7
27.5°	555.3	560.7	565.6	572.5	581.9	591.0
28°	549.4	555.0	559.9	566.8	577.1	586.7
28.5°	543.2	548.6	553.9	561.3	571.8	581.7
29°	536.6	542.2	547.8	555.5	566.5	576.9
29.5°	529.8	535.3	541.2	549.5	561.0	571.6
30°	522.6	528.2	534.4	543.0	555.1	566.4
30.5°	515.1	520.2	527.3	536.7	549.1	560.5
31°	507.3	512.7	519.6	529.8	542.6	554.9
31.5°	499.6	504.4	511.9	523.0	536.0	548.6
32°	491.1	495.7	503.9	515.7	529.2	542.1
32.5°	482.6	486.7	495.7	508.6	522.1	535.2
33°	473.8	478.5	487.3	501.2	514.5	528.2
33.5°	464.6	469.6	478.6	493.3	506.9	520.6
34°	455.5	460.7	469.9	484.7	499.0	512.4
34.5°	446.3	451.4	461.0	476.4	490.6	503.6
35°	436.7	442.6	452.1	467.6	481.9	494.8
35.5°	427.1	433.7	443.3	458.4	472.9	485.5
36°	417.2	424.5	433.9	448.2	463.3	475.5
36.5°	407.2	414.8	424.6	438.6	453.3	465.1
37°	396.9	404.9	414.8	428.1	442.4	454.7
37.5°	386.3	394.8	404.5	417.5	431.5	443.8
38°	375.5	384.0	393.8	406.2	419.5	432.7
38.5°	364.0	372.6	382.7	394.4	407.8	421.4
39°	352.2	360.7	371.3	382.1	394.7	410.1
39.5°	340.3	348.3	358.9	369.5	382.0	398.5
40°	328.1	335.9	346.7	356.5	368.7	386.7
40.5°	316.2	323.8	333.8	343.5	355.8	374.7
41°	304.0	311.8	321.1	330.3	342.7	362.5
41.5°	291.9	300.2	308.4	317.3	329.6	350.0
42°	280.1	288.7	295.8	304.3	316.4	337.2
42.5°	268.2	277.2	283.3	291.3	303.8	324.3
43°	256.5	265.9	271.1	278.0	291.0	311.5
43.5°	244.8	253.9	259.0	265.5	278.5	299.0



TEST NUMBER: P775789

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	212.0	219.7	223.0	228.6	242.4	262.8
45.5°	201.8	208.5	211.5	217.1	231.3	251.2
46°	191.9	197.9	200.1	206.0	220.5	239.3
46.5°	181.8	187.4	189.0	195.4	209.7	227.5
47°	172.5	177.2	178.5	184.8	199.1	215.8
47.5°	163.6	166.9	168.4	175.1	188.8	204.7
48°	155.3	157.2	158.7	165.6	178.7	193.7
48.5°	146.8	148.0	149.7	156.5	169.2	182.9
49°	139.1	139.2	141.0	148.0	159.6	172.7
49.5°	131.8	130.9	132.9	139.9	150.5	163.0
50°	124.8	123.2	125.4	132.0	141.6	153.3
50.5°	118.0	116.0	118.2	124.5	133.4	144.1
51°	112.0	109.7	111.6	117.7	125.4	135.3
51.5°	106.2	104.0	105.8	111.3	118.0	126.9
52°	100.6	98.9	100.3	105.2	111.2	118.9
52.5°	96.1	94.2	95.2	99.5	104.7	111.3
53°	91.6	89.9	90.6	94.1	98.6	104.2
53.5°	87.1	85.7	86.1	89.1	92.9	97.8
54°	82.5	81.9	82.1	84.4	87.6	91.8
54.5°	78.0	78.1	78.3	80.1	82.8	86.6
55°	74.2	74.5	74.5	76.0	78.5	81.8
55.5°	70.8	71.1	71.1	72.2	74.3	77.3
56°	67.7	68.0	68.0	68.9	70.6	73.3
56.5°	64.9	65.4	65.2	66.0	67.5	69.8
57°	62.3	62.6	62.6	63.2	64.7	66.8
57.5°	59.6	59.9	59.8	60.4	61.9	64.0
58°	56.9	57.2	57.1	57.7	59.2	61.2
58.5°	54.3	54.6	54.4	55.0	56.3	58.4
59°	51.8	52.0	51.9	52.3	53.5	55.5
59.5°	49.4	49.7	49.5	49.8	51.0	52.9
60°	46.9	47.2	47.0	47.4	48.5	50.2
60.5°	44.8	45.0	44.8	45.1	46.1	47.5
61°	42.6	42.9	42.5	42.9	43.7	45.1
61.5°	40.5	40.7	40.5	40.8	41.6	42.7
62°	38.6	38.8	38.5	38.8	39.6	40.5
62.5°	36.7	37.1	36.7	37.0	37.6	38.3
63°	34.9	35.4	35.0	35.3	35.8	36.4
63.5°	33.2	33.6	33.3	33.5	34.0	34.5
64°	31.6	31.9	31.6	31.8	32.2	32.6
64.5°	30.0	30.1	29.9	30.0	30.4	30.8
65°	28.5	28.6	28.4	28.5	28.8	29.0
65.5°	27.0	27.1	26.9	27.0	27.2	27.3
66°	25.6	25.7	25.5	25.6	25.7	25.8



TEST NUMBER: P775789

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	21.9	22.0	21.7	21.7	21.7	21.6
68°	20.7	20.8	20.6	20.7	20.5	20.5
68.5°	19.6	19.7	19.5	19.5	19.4	19.2
69°	18.5	18.7	18.4	18.5	18.2	18.1
69.5°	17.6	17.7	17.5	17.5	17.3	17.1
70°	16.6	16.7	16.5	16.5	16.2	16.1
70.5°	15.7	15.8	15.6	15.6	15.2	15.1
71°	14.8	14.9	14.7	14.7	14.4	14.2
71.5°	14.0	14.1	13.9	13.9	13.5	13.3
72°	13.2	13.2	13.1	13.1	12.7	12.5
72.5°	12.5	12.5	12.4	12.4	11.9	11.7
73°	11.7	11.7	11.6	11.6	11.2	11.0
73.5°	11.0	11.1	10.9	10.9	10.4	10.3
74°	10.3	10.3	10.2	10.2	9.8	9.7
74.5°	9.7	9.7	9.6	9.6	9.2	9.1
75°	9.2	9.2	9.1	9.0	8.6	8.4
75.5°	8.6	8.5	8.4	8.4	8.0	7.9
76°	8.1	8.0	7.9	7.8	7.5	7.4
76.5°	7.6	7.5	7.4	7.4	6.9	6.8
77°	7.0	7.0	6.9	6.8	6.4	6.3
77.5°	6.5	6.5	6.4	6.3	6.0	5.9
78°	6.0	6.1	6.0	5.9	5.4	5.4
78.5°	5.5	5.7	5.5	5.4	5.0	5.0
79°	5.1	5.2	5.1	5.0	4.7	4.6
79.5°	4.8	4.8	4.7	4.6	4.3	4.2
80°	4.4	4.4	4.4	4.2	3.8	3.8
80.5°	3.9	4.1	3.9	3.8	3.5	3.5
81°	3.6	3.7	3.6	3.5	3.2	3.2
81.5°	3.3	3.4	3.3	3.2	2.8	2.8
82°	3.0	3.1	3.0	2.9	2.5	2.6
82.5°	2.7	2.7	2.7	2.6	2.1	2.2
83°	2.3	2.5	2.3	2.2	1.8	1.9
83.5°	2.1	2.1	2.0	1.9	1.6	1.7
84°	1.8	1.8	1.8	1.7	1.4	1.4
84.5°	1.6	1.6	1.5	1.5	1.1	1.2
85°	1.3	1.3	1.3	1.3	1.0	0.9
85.5°	1.1	1.1	1.1	1.0	0.7	0.6
86°	0.9	0.9	0.9	0.7	0.6	0.5
86.5°	0.6	0.6	0.5	0.5	0.4	0.4
87°	0.3	0.4	0.3	0.3	0.3	0.3
87.5°	0.1	0.2	0.1	0.2	0.2	0.2
88°	0.0	0.0	0.0	0.0	0.1	0.1
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775789

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-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°	636.0	644.8	648.5	649.6	646.0	641.4	634.4	626.7	620.4	612.1	609.4
22°	632.9	641.9	645.8	646.8	643.3	638.5	631.3	623.6	617.0	608.5	605.6



44°	286.8	318.7	332.9	335.6	326.2	315.8	304.4	290.4	274.9	246.9	235.0
44.5°	274.7	305.9	319.7	322.8	313.3	302.9	291.0	278.4	263.3	235.9	224.4



66.5°	24.3	27.6	29.1	30.2	30.1	30.3	30.1	29.1	27.3	25.4	25.1
67°	22.9	26.0	27.6	28.6	28.6	28.8	28.5	27.6	25.8	24.0	23.8



89°	0.0	0.1	0.2	0.4	0.4	0.4	0.3	0.2	0.1	0.0	0.0
89.5°	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0

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21.5°	608.9	612.4	616.5	622.2	629.0	636.0
22°	605.2	608.7	612.9	618.8	625.8	632.9



44°	233.7	242.3	246.9	253.1	266.1	286.8
44.5°	222.8	231.0	234.8	240.8	254.2	274.7

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66.5°	24.3	24.4	24.2	24.3	24.3	24.3
67°	23.0	23.1	22.9	23.0	23.0	22.9

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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)