

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: P775760

Luminaire Tested: HCDJBL510CSD-HCD62TRMW-1000lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B057-HCD62TRMW)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD62TRMW-1000lm-2700K
Description: 6 INCH ROUND NARROW MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

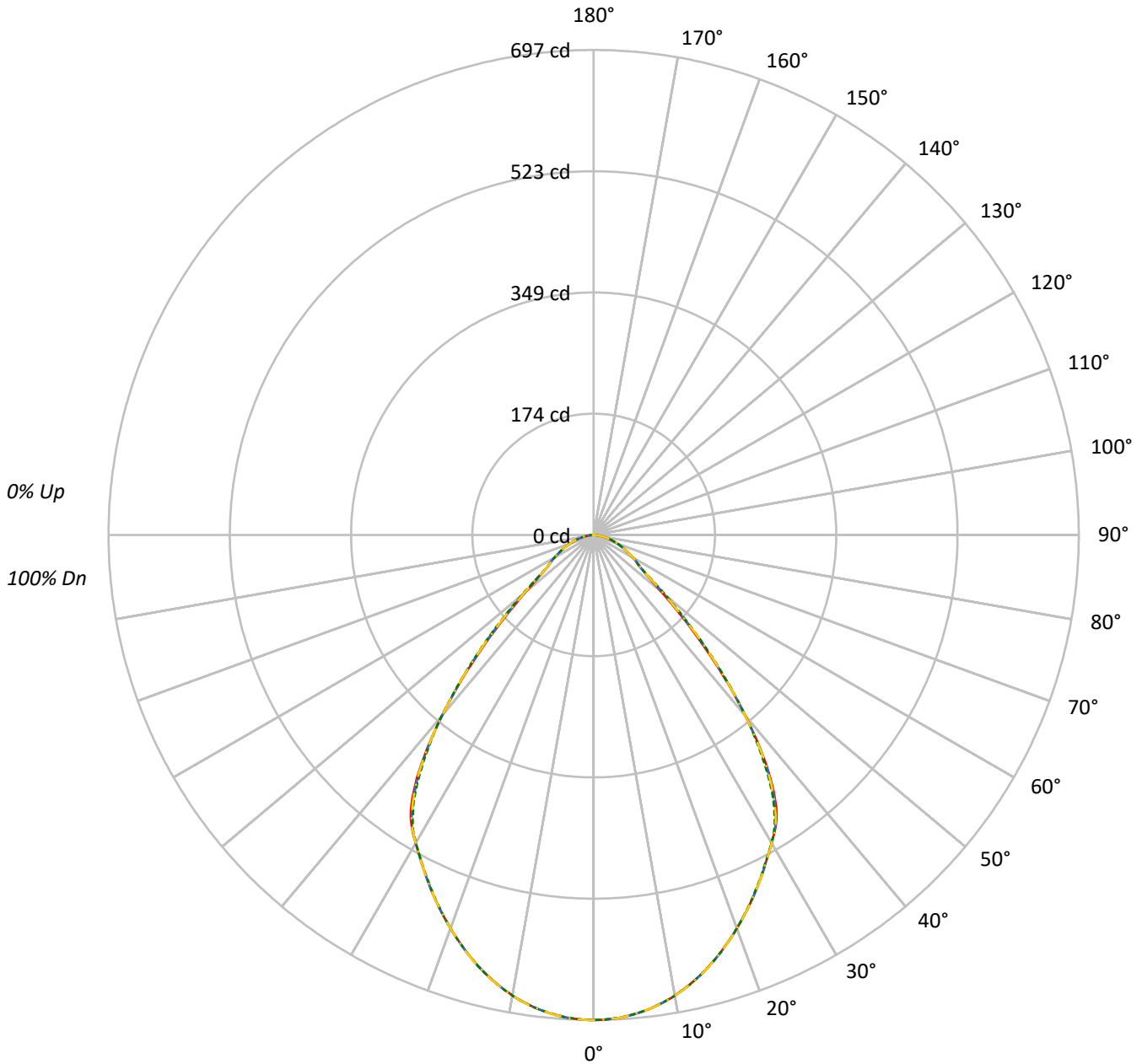
Lumens per Lamp: N/A
Luminaire Lumens: 1109.9 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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					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					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89					89			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63					63			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40					40			
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	38226	38226	38226	38226
5°	38025	38009	38025	38009
10°	37419	37419	37419	37419
15°	36391	36408	36391	36408
20°	35102	35091	35102	35091
25°	33710	33655	33710	33655
30°	32385	32334	32385	32334
35°	30202	29761	30202	29761
40°	24238	24267	24238	24267
45°	16963	17475	16963	17475
50°	10840	11556	10840	11556
55°	7885	8009	7885	8009
60°	7160	7127	7160	7127
65°	6434	6408	6434	6408
70°	5706	5786	5706	5786
75°	4978	5232	4978	5232
80°	4104	4641	4104	4641
85°	2516	3837	2516	3837

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 17475 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.4	5.9
10°-20°	180.3	16.2
20°-30°	256.4	23.1
30°-40°	274.1	24.7
40°-50°	173.2	15.6
50°-60°	78.8	7.1
60°-70°	49.4	4.4
70°-80°	25.9	2.3
80°-90°	6.4	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°	502.1	45.2
0°-40°	776.3	69.9
0°-60°	1028.3	92.6
0°-90°	1109.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1109.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	697	697	697	697	697	
5°	691	691	691	691	691	65
15°	641	642	641	642	641	180
25°	557	556	557	556	557	257
35°	451	445	451	445	451	275
45°	219	225	219	225	219	171
55°	82	84	82	84	82	78
65°	50	49	50	49	50	49
75°	24	25	24	25	24	25
85°	4	6	4	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°	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3
0.5°	697.2	697.3	697.2	697.2	696.9	697.2	697.2	697.3	697.2	697.3	697.2
1°	697.0	697.1	697.1	697.0	696.7	697.0	697.1	697.1	697.0	697.1	697.1
1.5°	696.7	696.8	696.7	696.7	696.4	696.7	696.7	696.8	696.7	696.8	696.7
2°	696.3	696.3	696.3	696.3	695.9	696.3	696.3	696.3	696.3	696.3	696.3
2.5°	695.7	695.7	695.8	695.7	695.4	695.7	695.8	695.7	695.7	695.7	695.8
3°	695.0	695.1	695.1	695.1	694.7	695.1	695.1	695.1	695.0	695.1	695.1
3.5°	694.2	694.2	694.3	694.3	693.9	694.3	694.3	694.2	694.2	694.2	694.3
4°	693.3	693.3	693.3	693.3	693.0	693.3	693.3	693.3	693.3	693.3	693.3
4.5°	692.2	692.3	692.3	692.3	691.9	692.3	692.3	692.3	692.2	692.3	692.3
5°	691.0	691.1	691.1	691.1	690.7	691.1	691.1	691.1	691.0	691.1	691.1
5.5°	689.7	689.8	689.8	689.8	689.4	689.8	689.8	689.8	689.7	689.8	689.8
6°	688.3	688.3	688.3	688.3	688.0	688.3	688.3	688.3	688.3	688.3	688.3
6.5°	686.7	686.7	686.8	686.8	686.5	686.8	686.8	686.7	686.7	686.7	686.8
7°	685.0	685.1	685.1	685.1	684.8	685.1	685.1	685.1	685.0	685.1	685.1
7.5°	683.2	683.2	683.3	683.3	683.0	683.3	683.3	683.2	683.2	683.2	683.3
8°	681.2	681.3	681.4	681.4	681.1	681.4	681.4	681.3	681.2	681.3	681.4
8.5°	679.1	679.2	679.3	679.3	679.0	679.3	679.3	679.2	679.1	679.2	679.3
9°	676.9	677.0	677.1	677.2	676.9	677.2	677.1	677.0	676.9	677.0	677.1
9.5°	674.6	674.7	674.8	674.9	674.6	674.9	674.8	674.7	674.6	674.7	674.8
10°	672.2	672.2	672.3	672.5	672.2	672.5	672.3	672.2	672.2	672.2	672.3
10.5°	669.5	669.5	669.7	669.8	669.5	669.8	669.7	669.5	669.5	669.5	669.7
11°	666.8	666.8	667.0	667.2	666.8	667.2	667.0	666.8	666.8	666.8	667.0
11.5°	663.9	664.0	664.2	664.4	664.1	664.4	664.2	664.0	663.9	664.0	664.2
12°	661.0	661.1	661.3	661.5	661.2	661.5	661.3	661.1	661.0	661.1	661.3
12.5°	658.0	658.1	658.2	658.4	658.2	658.4	658.2	658.1	658.0	658.1	658.2
13°	654.8	654.9	655.1	655.3	655.1	655.3	655.1	654.9	654.8	654.9	655.1
13.5°	651.6	651.7	651.9	652.1	651.8	652.1	651.9	651.7	651.6	651.7	651.9
14°	648.2	648.4	648.6	648.7	648.5	648.7	648.6	648.4	648.2	648.4	648.6
14.5°	644.8	644.9	645.1	645.3	645.1	645.3	645.1	644.9	644.8	644.9	645.1
15°	641.2	641.4	641.6	641.8	641.5	641.8	641.6	641.4	641.2	641.4	641.6
15.5°	637.6	637.7	637.9	638.1	637.8	638.1	637.9	637.7	637.6	637.7	637.9
16°	633.8	634.0	634.2	634.4	634.1	634.4	634.2	634.0	633.8	634.0	634.2
16.5°	630.1	630.2	630.4	630.6	630.3	630.6	630.4	630.2	630.1	630.2	630.4
17°	626.2	626.3	626.5	626.7	626.4	626.7	626.5	626.3	626.2	626.3	626.5
17.5°	622.3	622.3	622.5	622.7	622.4	622.7	622.5	622.3	622.3	622.3	622.5
18°	618.2	618.4	618.5	618.6	618.3	618.6	618.5	618.4	618.2	618.4	618.5
18.5°	614.1	614.3	614.4	614.5	614.2	614.5	614.4	614.3	614.1	614.3	614.4
19°	610.0	610.2	610.3	610.3	610.1	610.3	610.3	610.2	610.0	610.2	610.3
19.5°	605.9	606.0	606.1	606.2	605.9	606.2	606.1	606.0	605.9	606.0	606.1
20°	601.7	601.8	601.9	601.9	601.5	601.9	601.9	601.8	601.7	601.8	601.9
20.5°	597.5	597.5	597.5	597.5	597.2	597.5	597.5	597.5	597.5	597.5	597.5
21°	593.0	593.1	593.2	593.1	592.8	593.1	593.2	593.1	593.0	593.1	593.2



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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°	580.0	580.0	579.9	579.8	579.4	579.8	579.9	580.0	580.0	580.0	579.9
23°	575.5	575.5	575.4	575.3	574.9	575.3	575.4	575.5	575.5	575.5	575.4
23.5°	571.0	571.0	570.9	570.7	570.4	570.7	570.9	571.0	571.0	571.0	570.9
24°	566.5	566.5	566.4	566.1	565.7	566.1	566.4	566.5	566.5	566.5	566.4
24.5°	562.0	561.9	561.8	561.5	561.1	561.5	561.8	561.9	562.0	561.9	561.8
25°	557.3	557.3	557.2	556.9	556.4	556.9	557.2	557.3	557.3	557.3	557.2
25.5°	552.7	552.7	552.6	552.2	551.8	552.2	552.6	552.7	552.7	552.7	552.6
26°	548.1	548.1	548.0	547.7	547.2	547.7	548.0	548.1	548.1	548.1	548.0
26.5°	543.4	543.4	543.3	542.9	542.5	542.9	543.3	543.4	543.4	543.4	543.3
27°	538.7	538.8	538.7	538.3	537.8	538.3	538.7	538.8	538.7	538.8	538.7
27.5°	534.1	534.1	534.0	533.7	533.2	533.7	534.0	534.1	534.1	534.1	534.0
28°	529.3	529.5	529.4	529.1	528.7	529.1	529.4	529.5	529.3	529.5	529.4
28.5°	524.8	525.0	524.9	524.6	524.2	524.6	524.9	525.0	524.8	525.0	524.9
29°	520.3	520.5	520.4	520.2	519.7	520.2	520.4	520.5	520.3	520.5	520.4
29.5°	515.9	516.0	516.0	515.7	515.3	515.7	516.0	516.0	515.9	516.0	516.0
30°	511.6	511.6	511.6	511.2	510.8	511.2	511.6	511.6	511.6	511.6	511.6
30.5°	507.2	507.3	507.1	506.8	506.3	506.8	507.1	507.3	507.2	507.3	507.1
31°	502.9	502.9	502.7	502.2	501.6	502.2	502.7	502.9	502.9	502.9	502.7
31.5°	498.3	498.3	497.9	497.4	496.6	497.4	497.9	498.3	498.3	498.3	497.9
32°	493.6	493.3	492.6	491.7	490.6	491.7	492.6	493.3	493.6	493.3	492.6
32.5°	488.5	487.8	486.7	485.2	483.9	485.2	486.7	487.8	488.5	487.8	486.7
33°	482.7	481.9	480.0	478.3	476.9	478.3	480.0	481.9	482.7	481.9	480.0
33.5°	476.0	475.3	472.7	470.9	469.5	470.9	472.7	475.3	476.0	475.3	472.7
34°	468.4	468.1	465.0	463.0	461.8	463.0	465.0	468.1	468.4	468.1	465.0
34.5°	460.1	459.6	456.8	454.6	453.5	454.6	456.8	459.6	460.1	459.6	456.8
35°	451.3	450.5	448.1	445.7	444.7	445.7	448.1	450.5	451.3	450.5	448.1
35.5°	442.0	440.9	439.0	436.5	435.2	436.5	439.0	440.9	442.0	440.9	439.0
36°	432.1	430.7	429.5	427.0	425.4	427.0	429.5	430.7	432.1	430.7	429.5
36.5°	421.7	420.2	419.4	417.0	415.0	417.0	419.4	420.2	421.7	420.2	419.4
37°	410.8	409.4	408.8	406.6	404.6	406.6	408.8	409.4	410.8	409.4	408.8
37.5°	399.3	398.3	397.7	395.9	393.9	395.9	397.7	398.3	399.3	398.3	397.7
38°	387.5	386.9	386.3	385.1	383.4	385.1	386.3	386.9	387.5	386.9	386.3
38.5°	375.4	375.4	374.4	374.0	372.5	374.0	374.4	375.4	375.4	375.4	374.4
39°	363.4	363.6	362.6	362.5	361.9	362.5	362.6	363.6	363.4	363.6	362.6
39.5°	351.1	351.4	350.4	350.7	350.6	350.7	350.4	351.4	351.1	351.4	350.4
40°	338.7	339.3	338.4	338.9	339.1	338.9	338.4	339.3	338.7	339.3	338.4
40.5°	326.1	327.0	326.4	327.2	327.4	327.2	326.4	327.0	326.1	327.0	326.4
41°	313.8	314.8	314.6	315.3	316.0	315.3	314.6	314.8	313.8	314.8	314.6
41.5°	301.6	302.3	302.9	303.8	304.1	303.8	302.9	302.3	301.6	302.3	302.9
42°	289.4	290.0	291.2	292.0	292.8	292.0	291.2	290.0	289.4	290.0	291.2
42.5°	277.3	277.9	279.6	280.6	281.3	280.6	279.6	277.9	277.3	277.9	279.6
43°	265.2	266.0	268.2	269.1	269.8	269.1	268.2	266.0	265.2	266.0	268.2
43.5°	253.3	254.0	256.7	257.6	258.2	257.6	256.7	254.0	253.3	254.0	256.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	218.8	220.0	223.0	224.7	225.4	224.7	223.0	220.0	218.8	220.0	223.0
45.5°	207.7	209.2	212.3	214.2	214.9	214.2	212.3	209.2	207.7	209.2	212.3
46°	197.1	198.8	201.8	204.0	204.9	204.0	201.8	198.8	197.1	198.8	201.8
46.5°	186.8	188.7	191.6	194.1	195.1	194.1	191.6	188.7	186.8	188.7	191.6
47°	176.8	178.9	181.7	184.4	185.5	184.4	181.7	178.9	176.8	178.9	181.7
47.5°	167.3	169.3	172.3	175.1	176.1	175.1	172.3	169.3	167.3	169.3	172.3
48°	158.3	160.3	163.3	166.2	167.3	166.2	163.3	160.3	158.3	160.3	163.3
48.5°	149.9	151.6	154.6	157.6	158.8	157.6	154.6	151.6	149.9	151.6	154.6
49°	141.8	143.4	146.3	149.5	150.6	149.5	146.3	143.4	141.8	143.4	146.3
49.5°	134.1	135.6	138.6	141.6	142.9	141.6	138.6	135.6	134.1	135.6	138.6
50°	127.1	128.1	131.2	134.3	135.5	134.3	131.2	128.1	127.1	128.1	131.2
50.5°	120.6	121.3	124.4	127.2	128.4	127.2	124.4	121.3	120.6	121.3	124.4
51°	114.6	115.2	118.0	120.5	121.9	120.5	118.0	115.2	114.6	115.2	118.0
51.5°	109.0	109.5	112.1	114.4	115.7	114.4	112.1	109.5	109.0	109.5	112.1
52°	103.9	104.4	106.8	108.7	109.8	108.7	106.8	104.4	103.9	104.4	106.8
52.5°	99.2	99.6	101.7	103.3	104.3	103.3	101.7	99.6	99.2	99.6	101.7
53°	94.9	95.6	97.1	98.4	99.2	98.4	97.1	95.6	94.9	95.6	97.1
53.5°	91.5	91.9	92.9	94.0	94.6	94.0	92.9	91.9	91.5	91.9	92.9
54°	88.3	88.4	89.1	89.9	90.4	89.9	89.1	88.4	88.3	88.4	89.1
54.5°	85.4	85.4	85.7	86.3	86.9	86.3	85.7	85.4	85.4	85.4	85.7
55°	82.5	82.6	83.0	83.4	83.8	83.4	83.0	82.6	82.5	82.6	83.0
55.5°	79.8	80.2	80.6	80.9	81.6	80.9	80.6	80.2	79.8	80.2	80.6
56°	77.9	78.1	78.4	78.6	79.4	78.6	78.4	78.1	77.9	78.1	78.4
56.5°	76.3	76.3	76.3	76.5	77.2	76.5	76.3	76.3	76.3	76.3	76.3
57°	74.8	74.8	74.6	74.5	75.0	74.5	74.6	74.8	74.8	74.8	74.6
57.5°	73.4	73.3	73.1	72.9	72.8	72.9	73.1	73.3	73.4	73.3	73.1
58°	71.9	71.8	71.6	71.4	71.2	71.4	71.6	71.8	71.9	71.8	71.6
58.5°	70.3	70.2	70.0	69.8	69.7	69.8	70.0	70.2	70.3	70.2	70.0
59°	68.7	68.6	68.5	68.3	68.1	68.3	68.5	68.6	68.7	68.6	68.5
59.5°	67.0	67.0	66.8	66.7	66.6	66.7	66.8	67.0	67.0	67.0	66.8
60°	65.3	65.3	65.2	65.1	65.0	65.1	65.2	65.3	65.3	65.3	65.2
60.5°	63.6	63.6	63.5	63.4	63.3	63.4	63.5	63.6	63.6	63.6	63.5
61°	62.0	62.0	61.9	61.8	61.7	61.8	61.9	62.0	62.0	62.0	61.9
61.5°	60.4	60.4	60.3	60.2	60.1	60.2	60.3	60.4	60.4	60.4	60.3
62°	58.8	58.8	58.7	58.6	58.5	58.6	58.7	58.8	58.8	58.8	58.7
62.5°	57.2	57.2	57.1	57.0	56.9	57.0	57.1	57.2	57.2	57.2	57.1
63°	55.7	55.6	55.6	55.4	55.4	55.4	55.6	55.6	55.7	55.6	55.6
63.5°	54.1	54.1	54.0	53.9	53.9	53.9	54.0	54.1	54.1	54.1	54.0
64°	52.6	52.6	52.5	52.4	52.3	52.4	52.5	52.6	52.6	52.6	52.5
64.5°	51.1	51.1	51.0	50.9	50.9	50.9	51.0	51.1	51.1	51.1	51.0
65°	49.6	49.7	49.6	49.5	49.4	49.5	49.6	49.7	49.6	49.7	49.6
65.5°	48.1	48.2	48.2	48.1	48.0	48.1	48.2	48.2	48.1	48.2	48.2
66°	46.7	46.8	46.7	46.6	46.6	46.6	46.7	46.8	46.7	46.8	46.7



TEST NUMBER: P775760

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	42.4	42.6	42.6	42.5	42.5	42.5	42.6	42.6	42.4	42.6	42.6
68°	41.0	41.2	41.3	41.2	41.2	41.2	41.3	41.2	41.0	41.2	41.3
68.5°	39.7	39.9	40.0	39.9	39.9	39.9	40.0	39.9	39.7	39.9	40.0
69°	38.3	38.6	38.7	38.7	38.6	38.7	38.7	38.6	38.3	38.6	38.7
69.5°	36.9	37.3	37.5	37.4	37.4	37.4	37.5	37.3	36.9	37.3	37.5
70°	35.6	35.9	36.2	36.2	36.1	36.2	36.2	35.9	35.6	35.9	36.2
70.5°	34.3	34.7	35.0	34.9	34.9	34.9	35.0	34.7	34.3	34.7	35.0
71°	33.1	33.5	33.8	33.8	33.7	33.8	33.8	33.5	33.1	33.5	33.8
71.5°	31.8	32.2	32.6	32.6	32.5	32.6	32.6	32.2	31.8	32.2	32.6
72°	30.6	31.0	31.4	31.4	31.3	31.4	31.4	31.0	30.6	31.0	31.4
72.5°	29.4	29.8	30.3	30.2	30.2	30.2	30.3	29.8	29.4	29.8	30.3
73°	28.1	28.6	29.1	29.1	29.0	29.1	29.1	28.6	28.1	28.6	29.1
73.5°	26.9	27.4	28.0	28.0	27.9	28.0	28.0	27.4	26.9	27.4	28.0
74°	25.8	26.2	26.8	26.9	26.8	26.9	26.8	26.2	25.8	26.2	26.8
74.5°	24.6	25.1	25.7	25.8	25.7	25.8	25.7	25.1	24.6	25.1	25.7
75°	23.5	23.9	24.6	24.7	24.7	24.7	24.6	23.9	23.5	23.9	24.6
75.5°	22.4	22.8	23.6	23.6	23.6	23.6	23.6	22.8	22.4	22.8	23.6
76°	21.3	21.7	22.5	22.6	22.6	22.6	22.5	21.7	21.3	21.7	22.5
76.5°	20.2	20.6	21.4	21.6	21.5	21.6	21.4	20.6	20.2	20.6	21.4
77°	19.1	19.6	20.4	20.6	20.5	20.6	20.4	19.6	19.1	19.6	20.4
77.5°	18.0	18.5	19.4	19.6	19.5	19.6	19.4	18.5	18.0	18.5	19.4
78°	17.0	17.5	18.3	18.6	18.5	18.6	18.3	17.5	17.0	17.5	18.3
78.5°	16.0	16.4	17.3	17.6	17.6	17.6	17.3	16.4	16.0	16.4	17.3
79°	15.0	15.4	16.3	16.6	16.6	16.6	16.3	15.4	15.0	15.4	16.3
79.5°	14.0	14.4	15.4	15.7	15.7	15.7	15.4	14.4	14.0	14.4	15.4
80°	13.0	13.4	14.4	14.7	14.7	14.7	14.4	13.4	13.0	13.4	14.4
80.5°	12.1	12.5	13.5	13.8	13.8	13.8	13.5	12.5	12.1	12.5	13.5
81°	11.1	11.5	12.5	12.9	12.9	12.9	12.5	11.5	11.1	11.5	12.5
81.5°	10.2	10.5	11.6	12.0	12.0	12.0	11.6	10.5	10.2	10.5	11.6
82°	9.3	9.6	10.7	11.1	11.1	11.1	10.7	9.6	9.3	9.6	10.7
82.5°	8.3	8.7	9.8	10.3	10.3	10.3	9.8	8.7	8.3	8.7	9.8
83°	7.4	7.8	8.9	9.4	9.4	9.4	8.9	7.8	7.4	7.8	8.9
83.5°	6.5	6.9	8.1	8.6	8.5	8.6	8.1	6.9	6.5	6.9	8.1
84°	5.7	6.0	7.3	7.7	7.7	7.7	7.3	6.0	5.7	6.0	7.3
84.5°	4.8	5.1	6.5	6.9	6.9	6.9	6.5	5.1	4.8	5.1	6.5
85°	4.0	4.3	5.7	6.1	6.1	6.1	5.7	4.3	4.0	4.3	5.7
85.5°	3.2	3.6	4.9	5.3	5.3	5.3	4.9	3.6	3.2	3.6	4.9
86°	2.6	2.9	4.2	4.5	4.5	4.5	4.2	2.9	2.6	2.9	4.2
86.5°	2.1	2.4	3.4	3.7	3.8	3.7	3.4	2.4	2.1	2.4	3.4
87°	1.6	1.9	2.8	3.0	3.0	3.0	2.8	1.9	1.6	1.9	2.8
87.5°	1.2	1.4	2.1	2.3	2.3	2.3	2.1	1.4	1.2	1.4	2.1
88°	0.8	1.0	1.5	1.6	1.7	1.6	1.5	1.0	0.8	1.0	1.5
88.5°	0.4	0.6	1.0	1.2	1.3	1.2	1.0	0.6	0.4	0.6	1.0



TEST NUMBER: P775760

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.1	0.1	0.2	0.3	0.2	0.1	0.1	0.0	0.1	0.1



TEST NUMBER: P775760

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	697.3	697.3	697.3	697.3	697.3	697.3
0.5°	697.2	696.9	697.2	697.2	697.3	697.2
1°	697.0	696.7	697.0	697.1	697.1	697.0
1.5°	696.7	696.4	696.7	696.7	696.8	696.7
2°	696.3	695.9	696.3	696.3	696.3	696.3
2.5°	695.7	695.4	695.7	695.8	695.7	695.7
3°	695.1	694.7	695.1	695.1	695.1	695.0
3.5°	694.3	693.9	694.3	694.3	694.2	694.2
4°	693.3	693.0	693.3	693.3	693.3	693.3
4.5°	692.3	691.9	692.3	692.3	692.3	692.2
5°	691.1	690.7	691.1	691.1	691.1	691.0
5.5°	689.8	689.4	689.8	689.8	689.8	689.7
6°	688.3	688.0	688.3	688.3	688.3	688.3
6.5°	686.8	686.5	686.8	686.8	686.7	686.7
7°	685.1	684.8	685.1	685.1	685.1	685.0
7.5°	683.3	683.0	683.3	683.3	683.2	683.2
8°	681.4	681.1	681.4	681.4	681.3	681.2
8.5°	679.3	679.0	679.3	679.3	679.2	679.1
9°	677.2	676.9	677.2	677.1	677.0	676.9
9.5°	674.9	674.6	674.9	674.8	674.7	674.6
10°	672.5	672.2	672.5	672.3	672.2	672.2
10.5°	669.8	669.5	669.8	669.7	669.5	669.5
11°	667.2	666.8	667.2	667.0	666.8	666.8
11.5°	664.4	664.1	664.4	664.2	664.0	663.9
12°	661.5	661.2	661.5	661.3	661.1	661.0
12.5°	658.4	658.2	658.4	658.2	658.1	658.0
13°	655.3	655.1	655.3	655.1	654.9	654.8
13.5°	652.1	651.8	652.1	651.9	651.7	651.6
14°	648.7	648.5	648.7	648.6	648.4	648.2
14.5°	645.3	645.1	645.3	645.1	644.9	644.8
15°	641.8	641.5	641.8	641.6	641.4	641.2
15.5°	638.1	637.8	638.1	637.9	637.7	637.6
16°	634.4	634.1	634.4	634.2	634.0	633.8
16.5°	630.6	630.3	630.6	630.4	630.2	630.1
17°	626.7	626.4	626.7	626.5	626.3	626.2
17.5°	622.7	622.4	622.7	622.5	622.3	622.3
18°	618.6	618.3	618.6	618.5	618.4	618.2
18.5°	614.5	614.2	614.5	614.4	614.3	614.1
19°	610.3	610.1	610.3	610.3	610.2	610.0
19.5°	606.2	605.9	606.2	606.1	606.0	605.9
20°	601.9	601.5	601.9	601.9	601.8	601.7
20.5°	597.5	597.2	597.5	597.5	597.5	597.5
21°	593.1	592.8	593.1	593.2	593.1	593.0

TEST NUMBER: P775760

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	579.8	579.4	579.8	579.9	580.0	580.0
23°	575.3	574.9	575.3	575.4	575.5	575.5
23.5°	570.7	570.4	570.7	570.9	571.0	571.0
24°	566.1	565.7	566.1	566.4	566.5	566.5
24.5°	561.5	561.1	561.5	561.8	561.9	562.0
25°	556.9	556.4	556.9	557.2	557.3	557.3
25.5°	552.2	551.8	552.2	552.6	552.7	552.7
26°	547.7	547.2	547.7	548.0	548.1	548.1
26.5°	542.9	542.5	542.9	543.3	543.4	543.4
27°	538.3	537.8	538.3	538.7	538.8	538.7
27.5°	533.7	533.2	533.7	534.0	534.1	534.1
28°	529.1	528.7	529.1	529.4	529.5	529.3
28.5°	524.6	524.2	524.6	524.9	525.0	524.8
29°	520.2	519.7	520.2	520.4	520.5	520.3
29.5°	515.7	515.3	515.7	516.0	516.0	515.9
30°	511.2	510.8	511.2	511.6	511.6	511.6
30.5°	506.8	506.3	506.8	507.1	507.3	507.2
31°	502.2	501.6	502.2	502.7	502.9	502.9
31.5°	497.4	496.6	497.4	497.9	498.3	498.3
32°	491.7	490.6	491.7	492.6	493.3	493.6
32.5°	485.2	483.9	485.2	486.7	487.8	488.5
33°	478.3	476.9	478.3	480.0	481.9	482.7
33.5°	470.9	469.5	470.9	472.7	475.3	476.0
34°	463.0	461.8	463.0	465.0	468.1	468.4
34.5°	454.6	453.5	454.6	456.8	459.6	460.1
35°	445.7	444.7	445.7	448.1	450.5	451.3
35.5°	436.5	435.2	436.5	439.0	440.9	442.0
36°	427.0	425.4	427.0	429.5	430.7	432.1
36.5°	417.0	415.0	417.0	419.4	420.2	421.7
37°	406.6	404.6	406.6	408.8	409.4	410.8
37.5°	395.9	393.9	395.9	397.7	398.3	399.3
38°	385.1	383.4	385.1	386.3	386.9	387.5
38.5°	374.0	372.5	374.0	374.4	375.4	375.4
39°	362.5	361.9	362.5	362.6	363.6	363.4
39.5°	350.7	350.6	350.7	350.4	351.4	351.1
40°	338.9	339.1	338.9	338.4	339.3	338.7
40.5°	327.2	327.4	327.2	326.4	327.0	326.1
41°	315.3	316.0	315.3	314.6	314.8	313.8
41.5°	303.8	304.1	303.8	302.9	302.3	301.6
42°	292.0	292.8	292.0	291.2	290.0	289.4
42.5°	280.6	281.3	280.6	279.6	277.9	277.3
43°	269.1	269.8	269.1	268.2	266.0	265.2
43.5°	257.6	258.2	257.6	256.7	254.0	253.3



TEST NUMBER: P775760

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	224.7	225.4	224.7	223.0	220.0	218.8
45.5°	214.2	214.9	214.2	212.3	209.2	207.7
46°	204.0	204.9	204.0	201.8	198.8	197.1
46.5°	194.1	195.1	194.1	191.6	188.7	186.8
47°	184.4	185.5	184.4	181.7	178.9	176.8
47.5°	175.1	176.1	175.1	172.3	169.3	167.3
48°	166.2	167.3	166.2	163.3	160.3	158.3
48.5°	157.6	158.8	157.6	154.6	151.6	149.9
49°	149.5	150.6	149.5	146.3	143.4	141.8
49.5°	141.6	142.9	141.6	138.6	135.6	134.1
50°	134.3	135.5	134.3	131.2	128.1	127.1
50.5°	127.2	128.4	127.2	124.4	121.3	120.6
51°	120.5	121.9	120.5	118.0	115.2	114.6
51.5°	114.4	115.7	114.4	112.1	109.5	109.0
52°	108.7	109.8	108.7	106.8	104.4	103.9
52.5°	103.3	104.3	103.3	101.7	99.6	99.2
53°	98.4	99.2	98.4	97.1	95.6	94.9
53.5°	94.0	94.6	94.0	92.9	91.9	91.5
54°	89.9	90.4	89.9	89.1	88.4	88.3
54.5°	86.3	86.9	86.3	85.7	85.4	85.4
55°	83.4	83.8	83.4	83.0	82.6	82.5
55.5°	80.9	81.6	80.9	80.6	80.2	79.8
56°	78.6	79.4	78.6	78.4	78.1	77.9
56.5°	76.5	77.2	76.5	76.3	76.3	76.3
57°	74.5	75.0	74.5	74.6	74.8	74.8
57.5°	72.9	72.8	72.9	73.1	73.3	73.4
58°	71.4	71.2	71.4	71.6	71.8	71.9
58.5°	69.8	69.7	69.8	70.0	70.2	70.3
59°	68.3	68.1	68.3	68.5	68.6	68.7
59.5°	66.7	66.6	66.7	66.8	67.0	67.0
60°	65.1	65.0	65.1	65.2	65.3	65.3
60.5°	63.4	63.3	63.4	63.5	63.6	63.6
61°	61.8	61.7	61.8	61.9	62.0	62.0
61.5°	60.2	60.1	60.2	60.3	60.4	60.4
62°	58.6	58.5	58.6	58.7	58.8	58.8
62.5°	57.0	56.9	57.0	57.1	57.2	57.2
63°	55.4	55.4	55.4	55.6	55.6	55.7
63.5°	53.9	53.9	53.9	54.0	54.1	54.1
64°	52.4	52.3	52.4	52.5	52.6	52.6
64.5°	50.9	50.9	50.9	51.0	51.1	51.1
65°	49.5	49.4	49.5	49.6	49.7	49.6
65.5°	48.1	48.0	48.1	48.2	48.2	48.1
66°	46.6	46.6	46.6	46.7	46.8	46.7



TEST NUMBER: P775760

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	42.5	42.5	42.5	42.6	42.6	42.4
68°	41.2	41.2	41.2	41.3	41.2	41.0
68.5°	39.9	39.9	39.9	40.0	39.9	39.7
69°	38.7	38.6	38.7	38.7	38.6	38.3
69.5°	37.4	37.4	37.4	37.5	37.3	36.9
70°	36.2	36.1	36.2	36.2	35.9	35.6
70.5°	34.9	34.9	34.9	35.0	34.7	34.3
71°	33.8	33.7	33.8	33.8	33.5	33.1
71.5°	32.6	32.5	32.6	32.6	32.2	31.8
72°	31.4	31.3	31.4	31.4	31.0	30.6
72.5°	30.2	30.2	30.2	30.3	29.8	29.4
73°	29.1	29.0	29.1	29.1	28.6	28.1
73.5°	28.0	27.9	28.0	28.0	27.4	26.9
74°	26.9	26.8	26.9	26.8	26.2	25.8
74.5°	25.8	25.7	25.8	25.7	25.1	24.6
75°	24.7	24.7	24.7	24.6	23.9	23.5
75.5°	23.6	23.6	23.6	23.6	22.8	22.4
76°	22.6	22.6	22.6	22.5	21.7	21.3
76.5°	21.6	21.5	21.6	21.4	20.6	20.2
77°	20.6	20.5	20.6	20.4	19.6	19.1
77.5°	19.6	19.5	19.6	19.4	18.5	18.0
78°	18.6	18.5	18.6	18.3	17.5	17.0
78.5°	17.6	17.6	17.6	17.3	16.4	16.0
79°	16.6	16.6	16.6	16.3	15.4	15.0
79.5°	15.7	15.7	15.7	15.4	14.4	14.0
80°	14.7	14.7	14.7	14.4	13.4	13.0
80.5°	13.8	13.8	13.8	13.5	12.5	12.1
81°	12.9	12.9	12.9	12.5	11.5	11.1
81.5°	12.0	12.0	12.0	11.6	10.5	10.2
82°	11.1	11.1	11.1	10.7	9.6	9.3
82.5°	10.3	10.3	10.3	9.8	8.7	8.3
83°	9.4	9.4	9.4	8.9	7.8	7.4
83.5°	8.6	8.5	8.6	8.1	6.9	6.5
84°	7.7	7.7	7.7	7.3	6.0	5.7
84.5°	6.9	6.9	6.9	6.5	5.1	4.8
85°	6.1	6.1	6.1	5.7	4.3	4.0
85.5°	5.3	5.3	5.3	4.9	3.6	3.2
86°	4.5	4.5	4.5	4.2	2.9	2.6
86.5°	3.7	3.8	3.7	3.4	2.4	2.1
87°	3.0	3.0	3.0	2.8	1.9	1.6
87.5°	2.3	2.3	2.3	2.1	1.4	1.2
88°	1.6	1.7	1.6	1.5	1.0	0.8
88.5°	1.2	1.3	1.2	1.0	0.6	0.4



TEST NUMBER: P775760
CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.2	0.3	0.2	0.1	0.1	0.0

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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

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21.5°	588.7	588.8	588.7	588.7	588.4	588.7	588.7	588.8	588.7	588.8	588.7
22°	584.4	584.4	584.4	584.2	583.9	584.2	584.4	584.4	584.4	584.4	584.4



44°	241.5	242.2	245.2	246.5	247.1	246.5	245.2	242.2	241.5	242.2	245.2
44.5°	229.9	231.0	233.9	235.5	236.1	235.5	233.9	231.0	229.9	231.0	233.9



66.5°	45.2	45.4	45.4	45.3	45.2	45.3	45.4	45.4	45.2	45.4	45.4
67°	43.8	44.0	44.0	43.9	43.8	43.9	44.0	44.0	43.8	44.0	44.0



89°	0.2	0.3	0.6	0.8	0.9	0.8	0.6	0.3	0.2	0.3	0.6
89.5°	0.1	0.1	0.3	0.5	0.6	0.5	0.3	0.1	0.1	0.1	0.3

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21.5°	588.7	588.4	588.7	588.7	588.8	588.7
22°	584.2	583.9	584.2	584.4	584.4	584.4

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44°	246.5	247.1	246.5	245.2	242.2	241.5
44.5°	235.5	236.1	235.5	233.9	231.0	229.9

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66.5°	45.3	45.2	45.3	45.4	45.4	45.2
67°	43.9	43.8	43.9	44.0	44.0	43.8

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89°	0.8	0.9	0.8	0.6	0.3	0.2
89.5°	0.5	0.6	0.5	0.3	0.1	0.1

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(END OF REPORT)