

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: P775810

Luminaire Tested: HCDJBL510CSD-HCD6TSQMW-1000lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2310613A001)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD6TSQMW-1000lm-2700K
Description: 6 INCH SQUARE MEDIUM MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

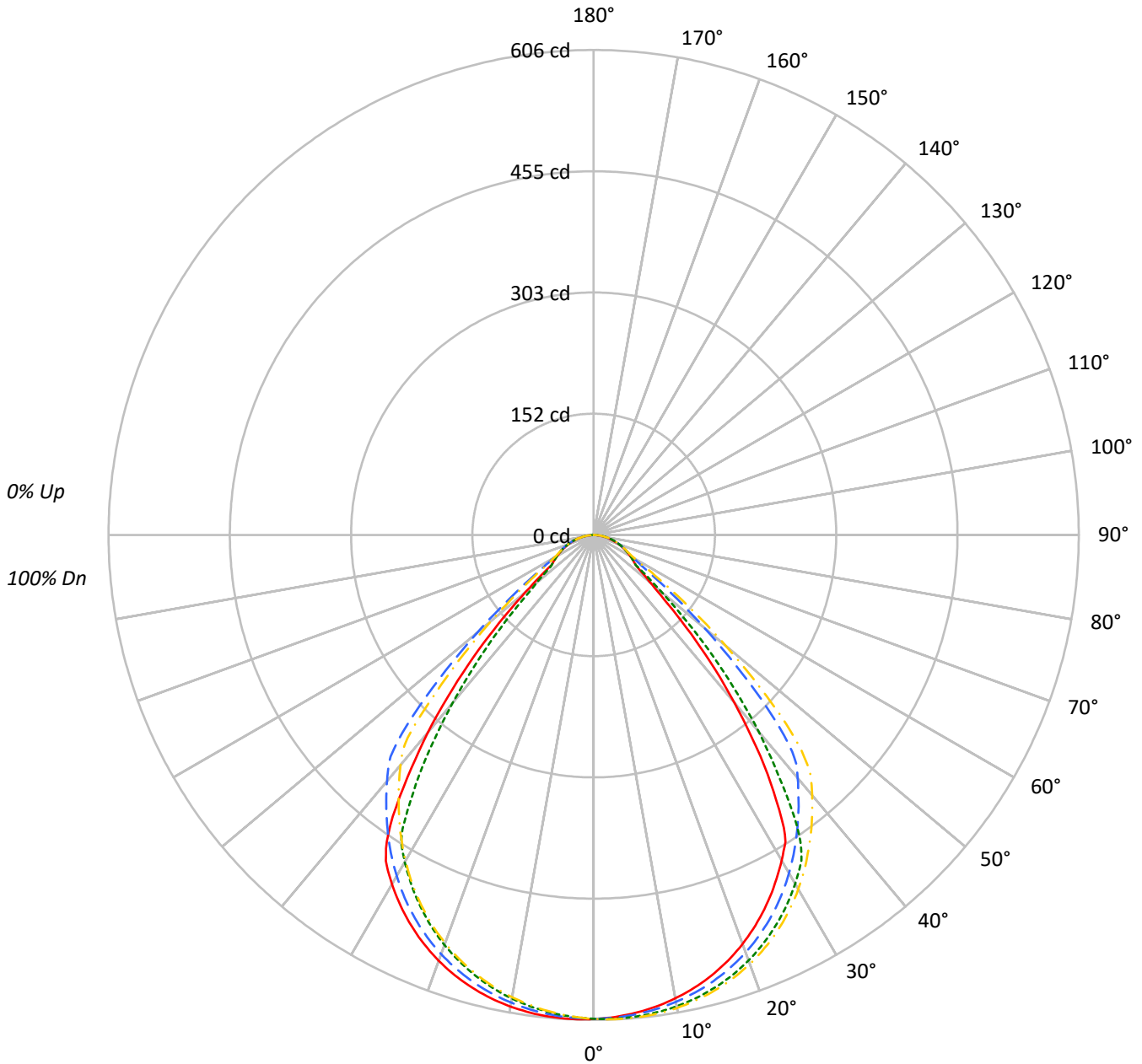
Lumens per Lamp: N/A
Luminaire Lumens: 1061.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79																			
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70																			
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63																			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57																			
6	78	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51																			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																			
8	69	57	50	45	67	57	49	45	55	49	44	54	48	44	53	48	44	42																			
9	65	53	46	41	63	52	46	41	51	45	41	50	45	40	49	44	40	39																			
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	26036	26036	26036	26036
5°	25910	26114	26131	25915
10°	25707	26144	26162	25716
15°	25394	26098	26112	25421
20°	24921	25924	25938	24976
25°	24243	25582	25601	24328
30°	23347	25032	25052	23466
35°	20588	23216	23290	20662
40°	15338	17997	18104	15389
45°	9986	12330	12409	10041
50°	6149	7348	7428	6189
55°	4744	4759	4759	4744
60°	4555	4538	4538	4555
65°	4340	4381	4340	4401
70°	4116	4242	4142	4268
75°	3810	4109	3909	4092
80°	3273	3942	3546	3794
85°	1828	3557	2668	3063

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°
 Vertical Angle: 45°
 Luminance: 21311 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	5.4
10°-20°	162.9	15.4
20°-30°	242.0	22.8
30°-40°	267.5	25.2
40°-50°	181.3	17.1
50°-60°	73.9	7.0
60°-70°	43.6	4.1
70°-80°	25.8	2.4
80°-90°	6.8	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°	462.1	43.6
0°-40°	729.6	68.8
0°-60°	984.8	92.8
0°-90°	1061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1061.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	605	605	605	605	605	
5°	600	604	605	600	600	57
15°	570	586	586	570	570	160
25°	510	538	539	512	510	235
35°	392	442	443	393	392	240
45°	164	202	204	165	164	130
55°	63	63	63	63	63	59
65°	43	43	43	43	43	42
75°	23	25	24	25	23	24
85°	4	7	5	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°	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7
0.5°	604.7	604.5	604.5	604.7	604.8	604.9	605.1	605.2	605.2	604.8	604.5
1°	604.3	604.3	604.3	604.7	605.0	605.1	605.4	605.4	605.3	604.8	604.5
1.5°	603.9	604.0	604.2	604.6	605.1	605.3	605.6	605.6	605.4	604.9	604.3
2°	603.5	603.7	604.0	604.5	605.1	605.3	605.7	605.7	605.5	604.8	604.2
2.5°	603.0	603.2	603.7	604.4	605.1	605.4	605.8	605.8	605.5	604.7	603.9
3°	602.4	602.7	603.3	604.2	605.0	605.4	605.8	605.8	605.4	604.6	603.6
3.5°	601.8	602.2	602.9	603.9	604.9	605.3	605.8	605.7	605.3	604.4	603.3
4°	601.1	601.6	602.5	603.6	604.7	605.2	605.7	605.6	605.1	604.1	602.9
4.5°	600.3	601.0	602.0	603.2	604.5	605.1	605.5	605.5	604.9	603.8	602.5
5°	599.5	600.3	601.4	602.7	604.2	604.9	605.3	605.3	604.6	603.4	602.0
5.5°	598.7	599.6	600.8	602.3	603.8	604.6	605.1	605.0	604.3	603.0	601.4
6°	597.7	598.7	600.1	601.7	603.4	604.3	604.8	604.7	603.9	602.5	600.8
6.5°	596.8	597.9	599.3	601.1	603.0	603.9	604.4	604.3	603.4	601.9	600.1
7°	595.7	596.9	598.5	600.4	602.5	603.5	604.0	603.8	602.9	601.2	599.3
7.5°	594.6	596.0	597.7	599.7	601.8	603.0	603.5	603.3	602.3	600.5	598.5
8°	593.4	594.9	596.8	598.9	601.2	602.4	603.0	602.7	601.6	599.8	597.7
8.5°	592.1	593.8	595.8	598.1	600.5	601.7	602.4	602.1	600.9	599.0	596.7
9°	590.8	592.5	594.7	597.1	599.7	601.1	601.7	601.3	600.1	598.1	595.7
9.5°	589.5	591.3	593.6	596.2	598.9	600.3	601.0	600.6	599.3	597.2	594.6
10°	588.0	590.0	592.5	595.1	598.0	599.5	600.2	599.7	598.4	596.3	593.5
10.5°	586.5	588.6	591.2	594.0	597.1	598.6	599.3	598.9	597.4	595.2	592.3
11°	584.9	587.1	590.0	592.9	596.0	597.7	598.4	597.9	596.4	594.0	591.1
11.5°	583.2	585.6	588.6	591.7	594.9	596.6	597.4	596.9	595.3	592.8	589.8
12°	581.5	584.0	587.2	590.4	593.8	595.6	596.4	595.8	594.2	591.6	588.4
12.5°	579.7	582.4	585.7	589.1	592.6	594.4	595.2	594.7	592.9	590.3	587.0
13°	577.9	580.7	584.1	587.6	591.3	593.2	594.0	593.4	591.7	588.9	585.5
13.5°	576.0	578.9	582.5	586.1	589.9	592.0	592.8	592.1	590.3	587.5	583.9
14°	574.0	577.0	580.9	584.6	588.5	590.6	591.5	590.8	588.9	585.9	582.3
14.5°	571.9	575.1	579.1	583.0	587.0	589.2	590.1	589.4	587.4	584.4	580.5
15°	569.7	573.1	577.3	581.3	585.5	587.8	588.7	587.9	585.8	582.7	578.8
15.5°	567.5	571.0	575.3	579.5	583.9	586.2	587.2	586.3	584.2	581.0	577.0
16°	565.2	568.8	573.4	577.7	582.2	584.5	585.6	584.7	582.4	579.2	575.0
16.5°	562.8	566.6	571.4	575.9	580.4	582.9	584.0	583.1	580.7	577.4	573.1
17°	560.3	564.3	569.4	573.9	578.5	581.1	582.3	581.3	578.8	575.4	571.0
17.5°	557.8	561.9	567.2	571.8	576.7	579.3	580.5	579.4	576.9	573.4	568.9
18°	555.1	559.4	564.9	569.7	574.6	577.4	578.7	577.5	574.9	571.3	566.7
18.5°	552.5	556.9	562.5	567.5	572.6	575.5	576.7	575.5	572.8	569.2	564.5
19°	549.7	554.3	560.2	565.3	570.4	573.4	574.7	573.4	570.6	566.9	562.0
19.5°	546.8	551.6	557.7	562.9	568.1	571.3	572.7	571.3	568.4	564.7	559.7
20°	543.9	548.9	555.2	560.5	565.8	569.0	570.5	569.1	566.1	562.3	557.3
20.5°	540.9	545.9	552.6	557.9	563.5	566.7	568.3	566.8	563.7	559.9	554.7
21°	537.8	543.0	549.9	555.3	560.9	564.3	566.0	564.4	561.3	557.3	552.1



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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°	528.0	533.7	541.3	547.2	553.1	556.8	558.6	556.9	553.5	549.5	543.8
23°	524.6	530.5	538.3	544.3	550.3	554.1	556.0	554.3	550.7	546.5	540.8
23.5°	521.2	527.2	535.2	541.3	547.5	551.4	553.4	551.6	547.9	543.6	537.8
24°	517.7	523.9	532.1	538.3	544.5	548.6	550.6	548.8	544.9	540.7	534.7
24.5°	514.0	520.4	528.8	535.2	541.5	545.7	547.7	545.9	541.9	537.7	531.6
25°	510.3	516.9	525.5	532.0	538.5	542.7	544.8	542.9	538.9	534.6	528.3
25.5°	506.5	513.2	522.1	528.7	535.3	539.7	541.9	539.9	535.7	531.4	525.1
26°	502.7	509.6	518.6	525.4	532.0	536.5	538.8	536.7	532.5	528.1	521.8
26.5°	498.8	505.9	515.0	522.0	528.7	533.3	535.6	533.5	529.1	524.8	518.3
27°	494.8	502.1	511.4	518.6	525.3	530.0	532.3	530.2	525.8	521.4	514.7
27.5°	490.7	498.0	507.7	515.1	521.9	526.7	529.1	526.9	522.4	518.0	511.3
28°	486.6	494.1	503.9	511.5	518.2	523.2	525.6	523.4	518.8	514.3	507.5
28.5°	482.4	490.1	500.0	507.7	514.7	519.7	522.1	520.0	515.1	510.8	503.8
29°	478.2	486.1	496.3	504.0	511.0	516.1	518.5	516.3	511.5	507.0	499.9
29.5°	473.9	481.8	492.2	500.2	507.3	512.5	515.0	512.7	507.8	503.5	496.0
30°	469.6	477.8	488.1	496.3	503.5	508.7	511.2	509.0	503.9	499.4	492.1
30.5°	465.2	473.5	483.9	492.4	499.5	505.0	507.4	505.3	499.9	495.6	488.1
31°	460.8	469.2	479.7	488.4	495.4	501.2	503.6	501.3	495.9	491.5	483.9
31.5°	456.4	464.8	475.4	484.2	491.4	497.3	499.7	497.4	491.9	487.5	479.7
32°	452.1	460.4	471.1	480.1	487.0	493.2	495.6	493.5	487.6	483.4	475.5
32.5°	444.4	455.9	466.7	475.9	482.7	489.2	491.7	489.4	483.2	479.2	471.3
33°	436.4	451.4	462.4	471.6	476.6	484.9	487.5	485.1	476.6	474.9	466.9
33.5°	425.8	447.0	457.8	467.2	469.5	480.7	483.2	480.9	469.8	470.8	462.5
34°	414.4	442.7	453.3	462.6	461.4	476.2	478.8	476.6	461.9	466.2	458.0
34.5°	402.8	435.3	448.7	458.2	452.2	471.8	474.6	471.8	452.9	461.4	453.6
35°	391.7	427.3	444.1	451.7	441.7	466.8	470.3	466.6	443.1	455.3	449.0
35.5°	380.7	417.4	439.4	444.7	430.6	459.2	465.9	459.2	432.0	448.4	444.4
36°	369.6	406.3	434.8	437.0	418.2	452.4	461.4	452.6	419.8	441.1	439.8
36.5°	358.1	395.4	430.0	428.0	405.8	443.6	457.0	444.2	407.6	432.4	435.2
37°	345.8	384.5	425.3	418.2	392.5	433.8	452.5	434.9	394.9	422.8	430.3
37.5°	333.4	373.6	420.5	407.6	380.0	423.2	447.8	424.9	382.1	412.7	425.6
38°	320.9	362.6	415.7	396.0	367.6	411.9	443.2	413.9	369.9	401.4	420.9
38.5°	308.6	351.6	411.0	384.0	355.9	400.0	438.5	402.3	357.9	389.7	416.2
39°	296.5	340.2	406.1	372.2	344.0	387.7	434.0	390.2	346.0	377.7	411.3
39.5°	284.6	328.4	401.4	360.3	332.3	375.0	429.2	378.1	334.2	365.7	406.5
40°	272.9	316.0	396.4	348.3	320.2	362.9	424.6	366.0	322.1	353.8	401.7
40.5°	261.7	303.9	391.5	337.0	308.0	351.2	419.7	354.3	309.9	342.2	396.9
41°	250.2	292.2	386.6	325.8	295.4	339.8	414.9	342.6	297.2	330.9	391.9
41.5°	238.9	280.4	382.0	314.6	282.9	328.3	409.8	331.2	284.7	319.8	386.8
42°	227.4	269.0	374.8	303.6	270.7	316.8	404.7	319.8	272.4	308.6	381.6
42.5°	216.2	258.3	367.2	292.3	258.9	305.2	399.8	308.3	260.4	297.1	375.6
43°	204.9	247.1	356.8	280.4	247.4	293.3	390.9	296.4	248.8	285.4	365.3
43.5°	194.4	236.1	345.4	269.1	235.9	281.3	382.1	284.2	237.4	273.6	356.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	164.0	203.1	307.4	235.4	202.5	246.3	350.0	249.1	203.8	239.6	318.3
45.5°	154.4	192.5	294.6	224.9	191.3	235.2	337.3	237.6	193.0	228.7	304.9
46°	145.2	182.1	281.0	214.4	180.6	224.2	323.6	226.6	182.2	218.1	291.2
46.5°	136.5	172.3	267.5	203.9	170.3	213.1	309.6	215.7	171.8	207.7	277.6
47°	128.0	162.3	254.0	193.6	160.3	202.3	295.3	204.8	161.9	197.3	264.1
47.5°	120.2	153.0	240.5	183.4	150.7	191.7	280.7	194.1	152.3	187.1	250.8
48°	113.1	143.9	227.4	173.4	141.7	181.3	266.9	183.8	143.2	177.3	237.6
48.5°	106.9	135.1	215.1	163.8	133.0	171.1	253.2	173.3	134.4	167.4	224.8
49°	101.4	126.6	203.3	154.5	124.8	160.9	240.4	163.3	126.1	158.1	212.4
49.5°	96.4	118.9	191.7	145.6	117.0	151.4	227.9	153.7	118.3	148.8	200.4
50°	91.8	111.5	180.4	136.6	109.7	142.1	215.7	144.4	110.9	140.0	188.9
50.5°	88.0	104.9	169.9	128.2	102.9	133.3	203.8	135.3	103.9	131.4	177.9
51°	84.3	98.9	159.7	120.3	96.5	125.0	192.2	126.9	97.6	123.5	167.0
51.5°	80.8	93.8	149.9	112.9	91.6	117.0	180.7	118.9	92.4	115.8	157.0
52°	77.2	89.2	140.4	105.8	86.6	109.6	169.9	111.2	87.2	108.7	147.3
52.5°	73.8	85.2	131.6	99.1	81.7	102.5	158.9	104.0	82.1	101.7	138.0
53°	70.4	81.4	123.2	92.8	76.7	96.1	148.5	97.1	76.9	95.1	129.3
53.5°	67.7	77.9	115.3	87.0	71.8	91.0	138.6	91.8	71.8	89.8	120.9
54°	65.6	74.5	108.0	81.8	67.9	85.8	129.8	86.5	67.9	84.5	113.2
54.5°	64.3	71.2	101.1	77.0	65.0	80.6	120.8	81.2	64.9	79.2	106.0
55°	63.2	67.7	94.7	72.5	63.4	75.4	112.7	75.9	63.4	73.9	99.4
55.5°	62.1	64.9	88.8	68.3	62.2	70.3	104.9	70.6	62.1	69.5	93.1
56°	61.0	62.6	83.6	64.5	61.1	66.2	97.9	66.4	61.0	65.6	88.2
56.5°	60.0	61.3	78.7	61.7	60.0	62.8	92.2	62.9	59.9	62.6	83.3
57°	59.0	60.2	74.3	60.2	58.9	60.7	86.5	60.6	58.9	60.9	78.4
57.5°	57.9	59.1	70.3	59.1	57.9	59.4	80.9	59.3	57.8	59.7	73.5
58°	56.9	58.1	67.0	58.0	56.8	58.3	75.2	58.2	56.8	58.6	69.6
58.5°	55.9	57.0	64.0	56.9	55.8	57.3	69.6	57.2	55.7	57.6	66.3
59°	54.9	56.0	61.3	55.9	54.8	56.2	65.7	56.2	54.7	56.5	63.4
59.5°	53.9	55.0	59.0	54.8	53.8	55.2	62.4	55.1	53.7	55.5	60.8
60°	52.9	54.0	57.0	53.8	52.7	54.2	59.6	54.1	52.7	54.5	58.5
60.5°	51.8	53.0	55.1	52.8	51.7	53.1	57.3	53.1	51.7	53.4	56.5
61°	50.8	52.0	53.4	51.7	50.8	52.1	55.1	52.1	50.6	52.4	54.7
61.5°	49.8	51.0	51.9	50.8	49.8	51.1	53.3	51.1	49.6	51.4	53.0
62°	48.8	50.0	50.5	49.8	48.8	50.2	51.6	50.1	48.6	50.4	51.5
62.5°	47.7	49.0	49.2	48.7	47.8	49.2	50.1	49.1	47.6	49.4	50.2
63°	46.7	48.0	48.1	47.7	46.8	48.2	48.8	48.0	46.5	48.3	48.9
63.5°	45.7	46.9	47.0	46.7	45.9	47.2	47.5	47.0	45.6	47.3	47.8
64°	44.7	45.9	45.9	45.7	44.9	46.2	46.5	46.0	44.6	46.3	46.8
64.5°	43.6	44.9	44.9	44.7	44.0	45.2	45.4	45.0	43.6	45.3	45.7
65°	42.6	43.9	43.9	43.8	43.0	44.3	44.4	44.0	42.6	44.3	44.7
65.5°	41.6	42.8	42.8	42.8	42.1	43.3	43.4	43.0	41.6	43.3	43.7
66°	40.6	41.8	41.8	41.8	41.1	42.3	42.3	42.0	40.6	42.3	42.6



TEST NUMBER: P775810

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	37.6	38.8	38.8	38.9	38.3	39.4	39.3	39.0	37.7	39.3	39.6
68°	36.6	37.8	37.8	37.9	37.4	38.5	38.3	38.0	36.7	38.2	38.6
68.5°	35.6	36.8	36.8	36.9	36.5	37.5	37.4	37.1	35.7	37.3	37.6
69°	34.6	35.8	35.8	36.4	35.6	36.6	36.4	36.1	34.8	36.3	36.6
69.5°	33.7	34.8	34.8	35.4	34.7	35.6	35.3	35.1	33.8	35.3	35.6
70°	32.7	33.8	33.8	34.4	33.7	34.7	34.4	34.1	32.9	34.3	34.6
70.5°	31.7	32.8	32.8	33.3	32.8	33.8	33.4	33.2	31.9	33.3	33.6
71°	30.8	31.9	31.8	32.3	31.9	32.8	32.4	32.2	31.0	32.3	32.6
71.5°	29.8	30.8	30.9	31.4	31.0	31.9	31.4	31.2	30.0	31.3	31.6
72°	28.8	29.9	29.9	30.4	30.1	30.9	30.4	30.3	29.1	30.4	30.6
72.5°	27.8	28.8	28.9	29.5	29.2	30.0	29.5	29.3	28.1	29.4	29.6
73°	26.8	27.9	27.9	28.5	28.3	29.1	28.5	28.3	27.2	28.4	28.6
73.5°	25.8	26.9	26.9	27.6	27.4	28.2	27.5	27.4	26.3	27.4	27.6
74°	24.8	25.9	25.9	26.6	26.5	27.2	26.6	26.4	25.3	26.5	26.6
74.5°	23.9	24.9	24.9	25.7	25.6	26.3	25.6	25.5	24.4	25.5	25.7
75°	22.9	23.9	24.0	24.8	24.7	25.4	24.7	24.5	23.5	24.5	24.7
75.5°	21.9	22.9	23.0	23.9	23.8	24.5	23.7	23.6	22.5	23.6	23.7
76°	21.0	21.9	22.0	22.9	22.9	23.6	22.7	22.6	21.6	22.6	22.7
76.5°	20.0	20.9	21.0	22.0	22.0	22.7	21.8	21.6	20.7	21.6	21.8
77°	19.0	19.9	20.0	21.1	21.2	21.8	20.9	20.7	19.8	20.7	20.8
77.5°	18.0	18.9	19.1	20.1	20.3	20.9	19.9	19.7	18.9	19.7	19.8
78°	17.1	17.9	18.1	19.2	19.4	19.9	19.0	18.8	18.0	18.7	18.9
78.5°	16.1	17.0	17.1	18.3	18.5	19.0	18.0	17.8	17.0	17.8	17.9
79°	15.1	16.0	16.2	17.3	17.6	18.1	17.1	16.9	16.1	16.8	16.9
79.5°	14.1	15.0	15.2	16.4	16.7	17.2	16.2	15.9	15.3	15.8	16.0
80°	13.2	14.0	14.2	15.4	15.9	16.3	15.2	15.0	14.3	14.9	15.0
80.5°	12.2	13.0	13.3	14.5	15.0	15.4	14.3	14.0	13.4	13.9	14.1
81°	11.3	12.0	12.3	13.6	14.1	14.4	13.4	13.1	12.5	13.0	13.1
81.5°	10.3	11.0	11.4	12.7	13.2	13.5	12.5	12.1	11.6	12.0	12.2
82°	9.4	10.1	10.4	11.8	12.4	12.6	11.6	11.2	10.7	11.0	11.2
82.5°	8.4	9.1	9.5	10.9	11.5	11.8	10.7	10.2	9.8	10.1	10.3
83°	7.5	8.1	8.6	10.0	10.7	10.9	9.9	9.3	8.9	9.1	9.4
83.5°	6.5	7.1	7.8	9.1	9.8	10.0	9.1	8.4	8.0	8.2	8.6
84°	5.6	6.1	6.9	8.2	8.9	9.1	8.3	7.4	7.1	7.2	7.8
84.5°	4.6	5.2	6.1	7.4	8.1	8.3	7.4	6.5	6.2	6.3	7.0
85°	3.7	4.2	5.4	6.5	7.2	7.4	6.6	5.6	5.4	5.3	6.2
85.5°	3.1	3.6	4.6	5.6	6.4	6.6	5.8	4.8	4.5	4.5	5.4
86°	2.5	3.0	3.9	4.8	5.5	5.7	5.1	4.1	3.6	3.7	4.6
86.5°	2.0	2.3	3.2	3.9	4.7	4.8	4.3	3.4	2.9	3.1	3.9
87°	1.4	1.7	2.4	3.1	3.8	4.0	3.6	2.8	2.4	2.5	3.1
87.5°	0.9	1.1	1.7	2.3	3.0	3.2	2.9	2.2	1.9	2.0	2.4
88°	0.4	0.6	1.0	1.5	2.2	2.4	2.2	1.7	1.5	1.5	1.7
88.5°	0.1	0.2	0.4	0.7	1.4	1.5	1.5	1.2	1.0	0.9	0.9



TEST NUMBER: P775810

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMW-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	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0



TEST NUMBER: P775810

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	604.7	604.7	604.7	604.7	604.7	604.7
0.5°	604.5	604.3	604.3	604.5	604.5	604.7
1°	604.3	604.0	603.9	604.1	604.1	604.3
1.5°	604.0	603.6	603.4	603.5	603.7	603.9
2°	603.7	603.1	602.9	603.0	603.2	603.5
2.5°	603.4	602.7	602.4	602.4	602.6	603.0
3°	603.0	602.2	601.7	601.7	602.0	602.4
3.5°	602.5	601.7	601.1	601.1	601.3	601.8
4°	602.0	601.0	600.4	600.3	600.5	601.1
4.5°	601.4	600.3	599.6	599.5	599.7	600.3
5°	600.8	599.6	598.7	598.6	598.9	599.5
5.5°	600.1	598.7	597.9	597.6	598.0	598.7
6°	599.4	597.7	597.0	596.7	597.0	597.7
6.5°	598.6	596.8	595.9	595.7	595.9	596.8
7°	597.7	595.8	594.8	594.5	594.8	595.7
7.5°	596.7	594.7	593.7	593.3	593.7	594.6
8°	595.7	593.5	592.5	592.1	592.4	593.4
8.5°	594.7	592.3	591.2	590.8	591.2	592.1
9°	593.5	591.0	589.8	589.4	589.8	590.8
9.5°	592.3	589.6	588.4	588.0	588.3	589.5
10°	591.1	588.2	586.9	586.5	586.9	588.0
10.5°	589.7	586.7	585.5	585.0	585.4	586.5
11°	588.3	585.2	583.8	583.4	583.7	584.9
11.5°	586.9	583.6	582.1	581.7	582.1	583.2
12°	585.4	581.9	580.5	579.9	580.3	581.5
12.5°	583.8	580.2	578.7	578.1	578.5	579.7
13°	582.1	578.3	576.8	576.2	576.5	577.9
13.5°	580.4	576.4	574.9	574.3	574.6	576.0
14°	578.7	574.4	572.9	572.3	572.6	574.0
14.5°	576.8	572.4	570.8	570.3	570.5	571.9
15°	574.8	570.3	568.7	568.1	568.3	569.7
15.5°	572.8	568.1	566.5	565.9	566.1	567.5
16°	570.7	565.8	564.2	563.6	563.7	565.2
16.5°	568.5	563.5	561.8	561.3	561.3	562.8
17°	566.3	561.1	559.4	558.8	558.9	560.3
17.5°	564.0	558.7	556.9	556.3	556.4	557.8
18°	561.7	556.1	554.3	553.7	553.7	555.1
18.5°	559.2	553.5	551.7	551.0	551.0	552.5
19°	556.7	550.7	548.9	548.3	548.2	549.7
19.5°	554.1	547.9	546.1	545.5	545.4	546.8
20°	551.4	545.1	543.2	542.8	542.5	543.9
20.5°	548.7	542.1	540.2	539.8	539.5	540.9
21°	545.8	539.2	537.2	536.8	536.4	537.8

TEST NUMBER: P775810

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	536.9	529.7	527.7	527.3	526.7	528.0
23°	533.8	526.3	524.4	524.0	523.3	524.6
23.5°	530.6	522.9	520.9	520.6	519.9	521.2
24°	527.3	519.4	517.5	517.1	516.3	517.7
24.5°	524.0	515.8	514.0	513.5	512.7	514.0
25°	520.6	512.1	510.5	510.0	509.1	510.3
25.5°	517.1	508.4	506.6	506.3	505.4	506.5
26°	513.5	504.7	503.0	502.6	501.6	502.7
26.5°	509.9	500.9	499.2	498.8	497.7	498.8
27°	506.1	497.0	495.3	495.0	493.8	494.8
27.5°	502.3	492.9	491.4	491.0	489.8	490.7
28°	498.5	488.9	487.3	486.9	485.7	486.6
28.5°	494.7	484.6	483.1	482.7	481.5	482.4
29°	490.6	480.5	479.0	478.6	477.4	478.2
29.5°	486.6	476.3	474.8	474.4	473.2	473.9
30°	482.3	472.0	470.6	470.1	468.9	469.6
30.5°	478.1	467.5	466.2	465.7	464.6	465.2
31°	473.8	463.0	461.9	461.3	460.2	460.8
31.5°	469.7	458.3	457.3	456.8	455.7	456.4
32°	465.3	453.9	452.8	452.3	451.3	452.1
32.5°	460.9	446.4	448.3	447.7	446.8	444.4
33°	456.4	438.4	443.7	443.2	442.2	436.4
33.5°	451.8	427.4	438.7	438.5	437.5	425.8
34°	447.0	416.0	434.3	433.8	433.2	414.4
34.5°	442.5	404.5	426.1	429.0	428.0	402.8
35°	435.4	393.1	418.3	424.2	419.2	391.7
35.5°	427.5	382.0	407.1	419.4	411.0	380.7
36°	417.3	370.9	396.9	414.6	400.5	369.6
36.5°	406.0	359.3	385.8	409.8	389.4	358.1
37°	395.3	347.2	375.1	404.8	378.6	345.8
37.5°	384.1	334.8	364.2	399.9	368.2	333.4
38°	373.1	321.9	353.6	395.0	357.7	320.9
38.5°	362.2	309.4	342.7	390.1	346.9	308.6
39°	351.5	297.3	331.4	385.2	336.2	296.5
39.5°	339.6	285.3	319.5	380.2	324.8	284.6
40°	327.7	273.8	307.8	375.2	313.2	272.9
40.5°	315.4	262.6	296.1	370.2	301.5	261.7
41°	303.7	251.2	284.2	365.3	289.7	250.2
41.5°	291.4	239.6	272.7	360.0	278.5	238.9
42°	279.8	228.1	262.3	352.3	267.6	227.4
42.5°	268.6	217.0	251.7	344.0	257.1	216.2
43°	257.9	205.7	240.8	331.8	246.3	204.9
43.5°	246.5	195.2	230.3	319.8	235.6	194.4



TEST NUMBER: P775810

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	214.0	164.9	198.1	279.3	203.6	164.0
45.5°	202.8	155.1	188.3	266.8	193.6	154.4
46°	192.3	145.9	178.2	254.7	183.6	145.2
46.5°	182.0	137.0	168.7	242.9	173.8	136.5
47°	172.1	128.6	159.1	231.1	164.3	128.0
47.5°	162.4	120.8	150.1	219.3	155.2	120.2
48°	153.0	113.6	141.1	207.6	146.0	113.1
48.5°	143.9	107.3	132.6	196.6	137.4	106.9
49°	135.1	101.7	124.7	185.9	129.2	101.4
49.5°	126.8	96.7	117.3	175.6	121.5	96.4
50°	118.8	92.4	110.1	165.5	113.9	91.8
50.5°	111.4	88.3	104.0	156.4	107.3	88.0
51°	104.8	84.6	98.3	147.6	101.3	84.3
51.5°	99.0	81.1	93.3	139.1	95.9	80.8
52°	93.8	77.7	88.9	131.1	91.1	77.2
52.5°	89.3	74.2	85.0	123.4	86.9	73.8
53°	85.6	70.8	81.4	116.1	83.0	70.4
53.5°	81.9	67.9	77.8	109.3	79.4	67.7
54°	78.2	65.7	74.4	102.8	75.9	65.6
54.5°	74.6	64.3	71.0	96.7	72.6	64.3
55°	71.2	63.2	67.7	91.2	69.2	63.2
55.5°	67.7	62.1	65.0	86.0	66.1	62.1
56°	64.8	61.1	62.9	81.3	63.6	61.0
56.5°	62.5	60.0	61.7	77.1	62.1	60.0
57°	61.1	59.0	60.6	73.1	60.9	59.0
57.5°	60.0	57.9	59.5	69.5	59.8	57.9
58°	59.0	56.9	58.5	66.3	58.8	56.9
58.5°	57.9	55.9	57.4	63.4	57.7	55.9
59°	56.9	54.9	56.4	61.0	56.7	54.9
59.5°	55.9	53.9	55.4	58.8	55.7	53.9
60°	54.9	52.9	54.4	56.8	54.6	52.9
60.5°	53.9	51.9	53.4	55.1	53.6	51.8
61°	52.9	50.9	52.4	53.5	52.6	50.8
61.5°	51.9	50.0	51.4	52.0	51.6	49.8
62°	50.9	49.0	50.4	50.7	50.5	48.8
62.5°	49.9	48.0	49.4	49.5	49.5	47.7
63°	48.9	47.1	48.4	48.5	48.5	46.7
63.5°	47.9	46.1	47.4	47.4	47.4	45.7
64°	46.9	45.1	46.4	46.4	46.4	44.7
64.5°	45.9	44.2	45.4	45.3	45.3	43.6
65°	45.0	43.2	44.4	44.3	44.3	42.6
65.5°	44.0	42.3	43.4	43.2	43.2	41.6
66°	43.0	41.3	42.4	42.2	42.2	40.6



TEST NUMBER: P775810

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	40.1	38.5	39.5	39.2	39.1	37.6
68°	39.1	37.5	38.5	38.2	38.0	36.6
68.5°	38.1	36.6	37.5	37.1	37.0	35.6
69°	37.1	35.7	36.6	35.9	36.5	34.6
69.5°	36.2	34.8	35.6	35.0	35.4	33.7
70°	35.2	33.9	34.7	34.0	34.3	32.7
70.5°	34.2	32.9	33.7	33.1	33.1	31.7
71°	33.3	32.0	32.7	32.2	32.0	30.8
71.5°	32.3	31.1	31.8	31.1	31.0	29.8
72°	31.4	30.2	30.8	30.1	30.0	28.8
72.5°	30.4	29.2	29.9	29.1	29.0	27.8
73°	29.4	28.3	28.9	28.1	27.9	26.8
73.5°	28.5	27.3	27.9	27.1	26.9	25.8
74°	27.5	26.4	26.9	26.1	25.9	24.8
74.5°	26.6	25.5	26.0	25.1	24.9	23.9
75°	25.6	24.6	25.0	24.1	23.9	22.9
75.5°	24.7	23.6	24.0	23.1	22.9	21.9
76°	23.7	22.7	23.1	22.1	21.8	21.0
76.5°	22.8	21.8	22.1	21.1	20.8	20.0
77°	21.8	20.9	21.2	20.1	19.8	19.0
77.5°	20.9	19.9	20.2	19.1	18.8	18.0
78°	19.9	19.0	19.2	18.1	17.8	17.1
78.5°	19.0	18.1	18.3	17.1	16.8	16.1
79°	18.0	17.1	17.3	16.1	15.8	15.1
79.5°	17.0	16.2	16.3	15.1	14.8	14.1
80°	16.1	15.3	15.3	14.2	13.7	13.2
80.5°	15.1	14.4	14.4	13.2	12.7	12.2
81°	14.2	13.5	13.4	12.3	11.7	11.3
81.5°	13.2	12.6	12.5	11.3	10.7	10.3
82°	12.3	11.6	11.5	10.4	9.7	9.4
82.5°	11.4	10.7	10.6	9.5	8.7	8.4
83°	10.5	9.8	9.7	8.6	7.7	7.5
83.5°	9.6	8.9	8.7	7.7	6.7	6.5
84°	8.6	8.0	7.8	6.9	5.8	5.6
84.5°	7.7	7.1	6.9	6.0	5.0	4.6
85°	6.8	6.2	6.0	5.2	4.2	3.7
85.5°	5.9	5.3	5.0	4.4	3.5	3.1
86°	5.0	4.4	4.1	3.6	2.9	2.5
86.5°	4.1	3.5	3.3	2.8	2.3	2.0
87°	3.3	2.7	2.5	2.0	1.6	1.4
87.5°	2.4	1.9	1.7	1.3	1.0	0.9
88°	1.6	1.0	0.9	0.5	0.4	0.4
88.5°	0.7	0.2	0.1	0.1	0.1	0.1



TEST NUMBER: P775810
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

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

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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°	534.5	540.0	547.1	552.7	558.3	561.9	563.5	561.9	558.7	554.7	549.4
22°	531.3	536.9	544.2	550.0	555.7	559.4	561.1	559.5	556.1	552.1	546.6



44°	183.8	224.8	333.1	257.6	224.5	269.2	372.9	272.2	226.0	262.0	344.2
44.5°	173.8	214.0	320.6	246.5	213.4	257.6	361.7	260.5	214.9	250.7	331.4



66.5°	39.6	40.8	40.8	40.8	40.2	41.3	41.3	41.0	39.6	41.3	41.6
67°	38.6	39.8	39.8	39.9	39.3	40.4	40.3	40.0	38.6	40.3	40.6



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

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21.5°	542.9	536.1	534.1	533.7	533.2	534.5
22°	540.0	532.9	530.9	530.6	530.1	531.3



44°	235.5	184.5	219.4	305.4	224.9	183.8
44.5°	224.6	174.7	208.8	292.5	214.3	173.8

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66.5°	42.0	40.4	41.4	41.2	41.1	39.6
67°	41.0	39.4	40.5	40.2	40.1	38.6

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

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(END OF REPORT)