

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: P775776

Luminaire Tested: HCDJBS510CSD-HCD6TRH-HCD6TRLWW-1000lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B013)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-3000K
Description: 6 INCH ROUND MEDIUM LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1048.2 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.17 / 1.23
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

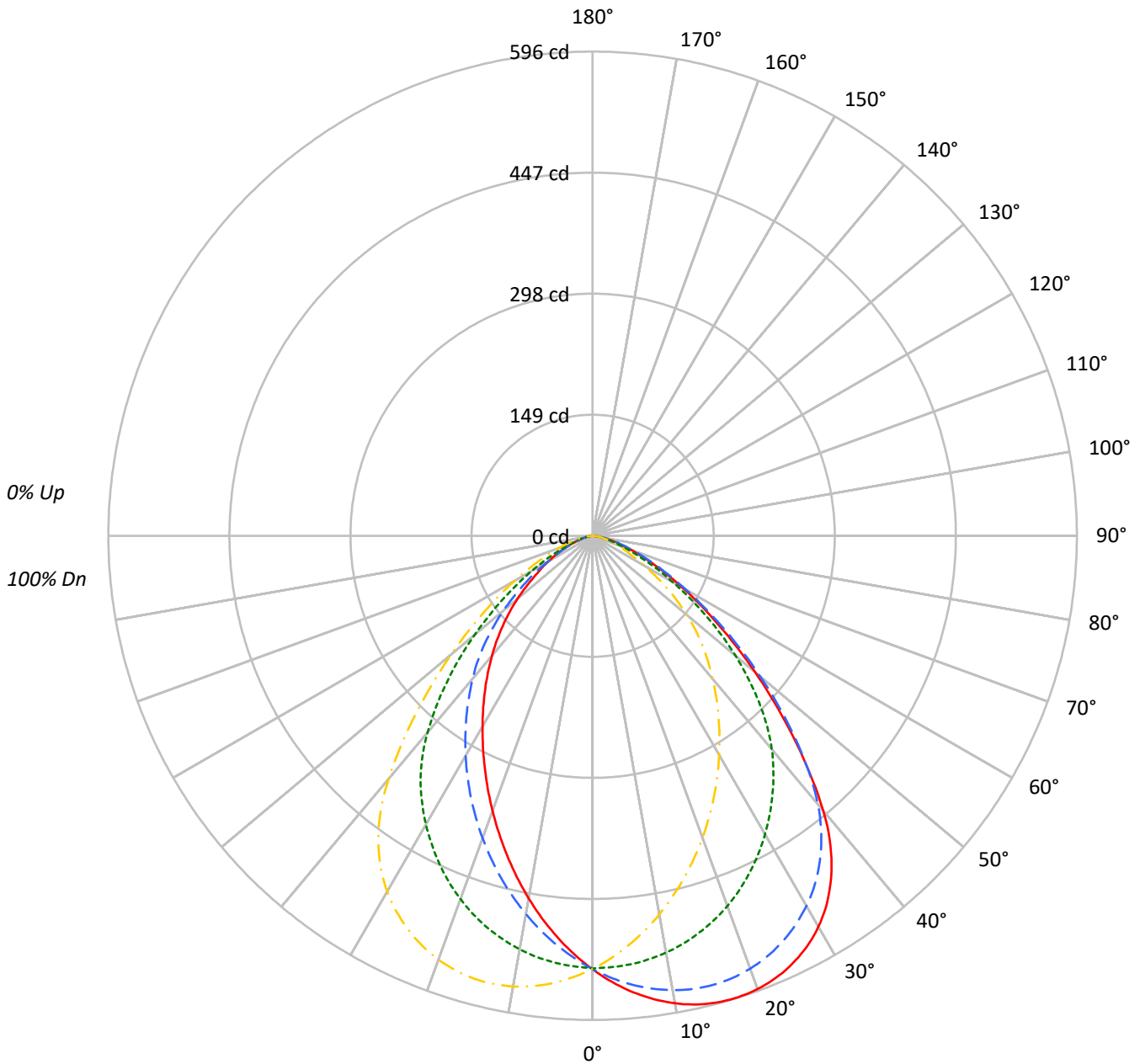
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P775776

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P775776

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89								
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68								
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60								
5	82	70	63	57	80	69	62	56	67	61	56	66	60	55	64	59	55	53								
6	76	64	56	51	74	63	56	50	62	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	29230	29230	29230	29230
5°	31026	29144	27306	29034
10°	32531	28996	25228	28774
15°	33746	28712	23105	28354
20°	34636	28288	21013	27757
25°	35161	27673	19011	26959
30°	35170	26859	17155	25966
35°	34258	25846	15432	24715
40°	31602	24553	13783	22592
45°	26987	22436	12102	19591
50°	22234	19573	10302	16153
55°	17834	16133	8353	12616
60°	14023	12499	6896	9462
65°	10650	9158	5383	6758
70°	7870	6427	4007	4664
75°	5571	4469	2987	3071
80°	3504	3189	2115	1926
85°	1132	2516	1069	943

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 27747 cd/sqm



TEST NUMBER: P775776

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	4.8
10°-20°	141.4	13.5
20°-30°	206.7	19.7
30°-40°	232.3	22.2
40°-50°	200.4	19.1
50°-60°	128.7	12.3
60°-70°	62.4	6.0
70°-80°	22.3	2.1
80°-90°	3.9	0.4
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°	398.3	38.0
0°-40°	630.6	60.2
0°-60°	959.6	91.5
0°-90°	1048.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1048.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	533	533	533	533	533	
5°	564	530	496	528	564	54
15°	595	506	407	500	595	168
25°	581	458	314	446	581	268
35°	512	386	231	369	512	317
45°	348	289	156	253	348	268
55°	187	169	87	132	187	169
65°	82	71	42	52	82	83
75°	26	21	14	14	26	29
85°	2	4	2	2	2	4
90°	0	0	0	0	0	



TEST NUMBER: P775776

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	533.2	533.2	533.2	533.2	533.2	533.2	533.2	533.2	533.2	533.2	533.2
0.5°	537.2	536.8	535.9	534.7	531.9	531.1	530.7	530.5	530.3	530.4	531.0
1°	540.3	539.8	538.3	535.9	531.9	529.9	528.3	527.4	526.8	527.1	528.4
1.5°	543.6	542.9	540.5	537.2	531.9	528.4	525.7	524.0	523.2	523.7	525.8
2°	546.8	545.8	542.8	538.4	531.8	527.0	523.2	520.6	519.6	520.4	523.1
2.5°	549.8	548.6	545.0	539.4	531.6	525.4	520.4	517.2	515.8	516.9	520.3
3°	552.8	551.4	547.0	540.4	531.2	523.9	517.8	513.7	512.0	513.3	517.5
3.5°	555.6	554.0	549.1	541.5	530.9	522.3	514.9	510.0	508.2	509.7	514.7
4°	558.4	556.8	550.9	542.3	530.5	520.5	512.1	506.3	504.2	506.0	511.8
4.5°	561.1	559.1	552.9	543.1	530.1	518.7	509.1	502.7	500.2	502.4	508.8
5°	563.8	561.7	554.6	543.8	529.6	517.0	506.1	498.9	496.2	498.5	505.7
5.5°	566.2	563.9	556.4	544.5	529.0	514.9	503.1	495.1	492.2	494.7	502.7
6°	568.7	566.1	558.0	545.1	528.4	513.0	500.0	491.1	487.9	490.8	499.5
6.5°	570.9	568.3	559.5	545.6	527.7	511.0	496.8	487.3	483.8	486.9	496.3
7°	573.2	570.3	560.9	546.1	526.9	508.9	493.6	483.3	479.5	483.0	493.1
7.5°	575.3	572.3	562.4	546.5	526.0	506.8	490.3	479.2	475.2	479.0	489.8
8°	577.3	574.2	563.6	546.8	525.1	504.6	487.0	475.2	470.8	474.8	486.5
8.5°	579.2	576.0	564.8	547.1	524.2	502.4	483.5	470.9	466.6	470.7	483.1
9°	581.0	577.7	565.9	547.2	523.2	500.0	480.1	466.9	462.1	466.7	479.7
9.5°	582.8	579.3	567.0	547.4	522.1	497.7	476.7	462.7	457.6	462.4	476.1
10°	584.4	580.8	567.9	547.4	520.9	495.2	473.2	458.5	453.2	458.2	472.8
10.5°	585.9	582.3	568.8	547.3	519.7	492.8	469.6	454.2	448.8	454.0	469.2
11°	587.4	583.5	569.6	547.2	518.5	490.2	465.9	449.8	444.1	449.7	465.6
11.5°	588.6	584.7	570.2	547.0	517.1	487.6	462.3	445.5	439.5	445.4	462.0
12°	589.8	585.7	570.8	546.7	515.7	485.0	458.6	441.1	435.0	441.1	458.4
12.5°	590.9	586.8	571.4	546.4	514.2	482.3	454.9	436.8	430.4	436.7	454.7
13°	591.9	587.6	571.8	545.9	512.8	479.6	451.1	432.4	425.7	432.4	450.9
13.5°	592.8	588.4	572.1	545.3	511.1	476.9	447.4	428.0	421.1	428.0	447.3
14°	593.5	589.0	572.3	544.8	509.5	474.0	443.5	423.4	416.4	423.6	443.5
14.5°	594.1	589.6	572.3	544.1	507.8	471.1	439.6	418.9	411.9	419.0	439.6
15°	594.6	590.0	572.4	543.3	505.9	468.2	435.7	414.4	407.1	414.6	435.7
15.5°	595.0	590.3	572.3	542.5	504.2	465.2	431.8	410.0	402.5	410.2	431.9
16°	595.3	590.6	572.1	541.7	502.3	462.3	427.9	405.4	397.8	405.7	428.0
16.5°	595.5	590.6	571.9	540.6	500.3	459.1	423.8	400.8	393.1	401.2	424.1
17°	595.6	590.6	571.5	539.5	498.3	456.0	419.9	396.3	388.4	396.8	420.1
17.5°	595.5	590.6	570.9	538.3	496.2	452.9	415.8	391.8	383.6	392.2	416.1
18°	595.4	590.4	570.4	537.2	494.1	449.7	411.8	387.2	379.0	387.8	412.2
18.5°	595.1	590.1	569.6	535.7	491.9	446.4	407.7	382.7	374.3	383.2	408.1
19°	594.8	589.7	568.9	534.4	489.5	443.2	403.6	378.1	369.6	378.6	404.1
19.5°	594.3	589.2	568.0	532.9	487.3	439.9	399.6	373.5	364.9	374.2	400.1
20°	593.7	588.6	567.1	531.2	484.9	436.6	395.5	369.0	360.2	369.7	396.0
20.5°	593.0	587.8	565.9	529.6	482.4	433.2	391.2	364.5	355.7	365.1	392.0
21°	592.2	587.0	564.8	527.9	479.8	429.7	387.1	359.9	350.9	360.6	387.8



TEST NUMBER: P775776

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	589.0	583.8	560.7	522.1	472.0	419.2	374.7	346.4	337.2	347.2	375.4
23°	587.7	582.5	559.1	520.0	469.2	415.6	370.4	341.9	332.5	342.7	371.2
23.5°	586.4	581.0	557.5	517.9	466.3	412.1	366.2	337.5	328.0	338.2	367.1
24°	584.7	579.5	555.6	515.5	463.5	408.4	362.1	332.9	323.4	333.7	363.0
24.5°	583.1	577.9	553.8	513.3	460.5	404.8	357.8	328.5	318.8	329.2	358.8
25°	581.3	576.1	551.8	510.8	457.5	401.1	353.5	323.9	314.3	324.8	354.6
25.5°	579.3	574.2	549.7	508.4	454.5	397.4	349.4	319.6	309.9	320.4	350.4
26°	577.4	572.3	547.6	505.7	451.3	393.6	345.2	315.1	305.5	316.0	346.1
26.5°	575.1	570.1	545.2	503.2	448.2	389.8	340.9	310.7	301.0	311.5	342.0
27°	572.9	567.9	542.8	500.3	445.0	386.0	336.6	306.3	296.6	307.3	337.8
27.5°	570.4	565.5	540.3	497.6	441.7	382.2	332.5	302.2	292.3	302.9	333.6
28°	567.9	563.0	537.7	494.6	438.3	378.3	328.3	297.8	288.0	298.6	329.4
28.5°	565.1	560.4	534.9	491.7	434.9	374.4	324.1	293.5	283.7	294.3	325.2
29°	562.2	557.7	532.1	488.5	431.4	370.5	319.8	289.1	279.5	290.0	320.9
29.5°	559.0	554.7	529.2	485.4	428.0	366.5	315.6	285.0	275.2	285.6	316.7
30°	555.6	551.7	526.1	482.3	424.3	362.7	311.3	280.7	271.0	281.4	312.5
30.5°	552.2	548.4	523.0	478.8	420.7	358.7	307.3	276.5	266.8	277.2	308.3
31°	548.6	544.9	519.7	475.4	417.2	354.6	303.1	272.5	262.8	273.0	304.1
31.5°	544.7	541.2	516.3	472.0	413.3	350.6	298.9	268.3	258.6	268.8	299.8
32°	540.8	537.4	512.8	468.4	409.6	346.6	294.7	264.2	254.6	264.6	295.7
32.5°	536.6	533.3	509.0	464.7	405.8	342.6	290.5	260.1	250.5	260.5	291.5
33°	531.9	529.1	505.1	461.0	402.0	338.4	286.3	256.1	246.5	256.4	287.2
33.5°	527.0	524.7	501.0	457.3	398.2	334.3	282.3	252.2	242.6	252.3	283.0
34°	522.3	520.2	496.8	453.3	394.2	330.2	278.1	248.1	238.6	248.4	278.9
34.5°	517.1	515.3	492.3	449.2	390.2	326.1	274.0	244.1	234.5	244.3	274.7
35°	511.9	510.3	487.7	445.1	386.2	322.1	269.9	240.1	230.6	240.2	270.5
35.5°	506.2	505.2	482.9	440.8	382.3	317.9	265.8	236.2	226.7	236.3	266.3
36°	500.2	499.7	478.0	436.4	378.2	313.8	261.8	232.4	223.0	232.4	262.3
36.5°	494.1	494.1	472.9	431.8	373.9	309.6	257.8	228.4	219.0	228.4	258.1
37°	487.6	488.2	467.6	427.1	369.8	305.5	253.7	224.5	215.2	224.4	254.0
37.5°	480.8	482.0	462.1	422.1	365.5	301.2	249.7	220.7	211.3	220.5	249.8
38°	473.8	475.6	456.3	417.1	361.1	297.1	245.6	216.8	207.6	216.6	245.7
38.5°	466.2	469.0	450.4	411.9	356.8	293.0	241.6	213.1	203.9	212.8	241.6
39°	458.6	462.1	444.3	406.4	352.4	288.7	237.8	209.2	200.1	208.9	237.7
39.5°	450.3	454.5	438.0	400.8	347.8	284.6	233.8	205.5	196.3	205.0	233.7
40°	441.6	446.7	431.2	395.0	343.1	280.3	229.7	201.7	192.6	201.2	229.6
40.5°	432.5	438.6	424.1	389.1	338.2	276.1	225.8	198.0	188.9	197.5	225.6
41°	423.3	430.2	416.8	382.9	333.3	272.1	221.8	194.2	185.2	193.6	221.7
41.5°	414.0	421.2	409.2	376.5	328.2	267.9	218.0	190.4	181.4	189.9	217.7
42°	404.3	412.4	401.5	370.0	323.1	263.7	214.0	186.7	177.9	186.1	213.6
42.5°	394.9	403.4	393.7	363.5	317.7	259.4	210.2	183.1	174.2	182.5	209.4
43°	385.5	394.3	385.6	356.8	312.1	255.0	206.3	179.4	170.5	178.8	205.1
43.5°	376.0	385.2	377.4	349.9	306.5	250.5	202.6	175.7	166.9	175.1	200.8



TEST NUMBER: P775776

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	348.1	357.9	353.0	329.0	289.4	236.5	191.2	164.8	156.1	164.2	187.8
45.5°	339.2	348.9	344.5	321.9	283.4	231.6	187.5	161.2	152.6	160.6	183.3
46°	330.1	339.8	336.1	314.8	277.6	226.8	183.6	157.6	149.0	156.9	178.8
46.5°	320.7	330.6	327.8	307.5	271.5	221.9	179.7	154.0	145.3	153.3	174.5
47°	312.1	321.6	319.4	300.2	265.5	217.1	175.6	150.4	141.8	149.5	170.0
47.5°	302.9	312.8	310.8	292.8	259.5	212.1	171.6	146.8	138.3	145.8	165.4
48°	294.3	304.0	302.5	285.5	253.6	207.2	167.7	143.4	134.8	142.0	160.9
48.5°	285.9	295.4	294.1	278.1	247.5	202.3	163.6	139.7	131.2	138.3	156.5
49°	277.3	286.8	285.7	270.8	241.4	197.3	159.5	136.1	127.7	134.5	152.0
49.5°	269.1	278.3	277.7	263.4	235.3	192.3	155.4	132.7	124.2	130.7	147.6
50°	260.7	269.8	269.2	255.9	229.5	187.3	151.4	129.2	120.8	127.0	143.1
50.5°	252.4	261.5	261.2	248.5	223.3	182.2	147.3	125.5	117.4	123.2	138.8
51°	244.7	253.4	253.3	241.3	217.1	177.0	143.1	121.8	113.8	119.3	134.3
51.5°	236.8	245.4	245.4	234.1	211.0	172.3	139.0	118.4	110.4	115.6	130.1
52°	229.0	237.6	237.7	226.9	205.0	167.3	134.9	114.9	107.0	111.8	125.7
52.5°	221.8	229.8	230.0	219.6	198.8	162.3	130.7	111.2	103.6	108.2	121.4
53°	214.2	222.4	222.5	212.7	192.7	157.3	126.7	107.7	100.2	104.4	117.1
53.5°	207.2	214.9	215.1	205.7	186.6	152.4	122.7	104.2	96.7	100.7	113.0
54°	199.9	207.6	207.9	198.9	180.7	147.5	118.5	100.6	93.5	97.0	108.8
54.5°	193.0	200.5	200.9	192.0	174.7	142.7	114.5	97.0	90.1	93.5	104.7
55°	186.6	193.6	193.8	185.3	168.8	138.0	110.5	93.7	87.4	90.1	100.6
55.5°	179.9	186.8	187.0	178.8	162.9	133.1	106.5	90.2	84.7	86.6	96.7
56°	173.8	180.2	180.4	172.4	157.0	128.3	102.6	87.0	81.9	83.3	92.8
56.5°	167.4	173.8	173.9	165.9	151.4	123.7	98.7	83.9	79.2	79.9	89.1
57°	161.4	167.5	167.6	159.7	145.8	119.0	94.9	80.7	77.2	76.5	85.4
57.5°	155.6	161.3	161.2	153.7	140.3	114.3	91.1	77.6	74.9	73.3	81.6
58°	149.8	155.4	155.2	147.8	134.7	109.9	87.6	75.7	72.5	70.2	78.0
58.5°	144.3	149.6	149.4	142.0	129.4	105.4	83.9	73.6	70.0	67.6	74.3
59°	138.7	143.9	143.7	136.3	124.2	101.0	80.3	71.2	67.6	65.5	70.8
59.5°	133.4	138.6	138.2	130.8	119.0	96.7	76.7	68.8	65.2	63.4	67.5
60°	127.9	133.2	132.7	125.5	114.0	92.6	73.2	66.4	62.9	61.2	64.2
60.5°	122.7	127.9	127.4	120.2	109.0	88.5	69.8	64.0	60.5	59.0	61.1
61°	117.8	122.7	122.3	115.2	104.3	84.5	66.5	61.6	58.3	56.7	58.2
61.5°	112.9	117.8	117.3	110.2	99.7	80.4	63.6	59.3	56.1	54.6	55.2
62°	108.1	112.9	112.6	105.4	95.2	76.4	60.6	57.0	54.0	52.5	52.6
62.5°	103.4	108.2	107.9	100.8	91.0	72.9	57.8	54.9	51.8	50.4	49.9
63°	99.0	103.6	103.3	96.3	86.8	69.2	55.0	52.8	49.7	48.4	47.3
63.5°	94.6	99.2	98.9	91.9	82.7	65.7	52.8	50.7	47.7	46.4	45.0
64°	90.2	94.8	94.6	87.6	78.5	62.3	50.8	48.7	45.6	44.5	42.8
64.5°	86.0	90.8	90.5	83.5	74.4	59.1	48.9	46.7	43.6	42.6	40.6
65°	82.1	86.7	86.4	79.5	70.6	56.0	46.9	44.8	41.5	40.6	38.7
65.5°	78.4	82.9	82.6	75.7	67.0	53.0	45.1	43.0	39.7	38.8	36.8
66°	74.5	79.0	78.8	72.0	63.5	50.0	43.2	41.0	37.9	36.9	35.2



TEST NUMBER: P775776

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	64.2	68.5	68.3	61.7	53.8	42.2	38.0	35.8	32.6	31.7	30.8
68°	60.9	65.2	65.0	58.5	50.8	39.9	36.3	34.2	30.9	30.1	29.5
68.5°	57.9	62.0	61.7	55.4	47.9	37.7	34.7	32.6	29.4	28.6	28.2
69°	54.8	59.1	58.7	52.5	45.2	35.6	33.2	31.0	27.9	27.0	26.8
69.5°	51.8	56.1	55.8	49.6	42.6	33.6	31.7	29.5	26.4	25.6	25.6
70°	49.1	53.2	52.9	46.8	40.1	31.7	30.3	28.1	25.0	24.2	24.3
70.5°	46.4	50.5	50.2	44.3	37.7	30.0	29.0	26.7	23.8	22.9	23.1
71°	43.8	47.9	47.6	41.7	35.5	28.4	27.7	25.4	22.4	21.6	21.9
71.5°	41.2	45.4	45.0	39.4	33.4	26.7	26.3	24.1	21.2	20.4	20.8
72°	38.9	42.9	42.6	37.1	31.3	25.3	25.0	22.9	20.1	19.3	19.6
72.5°	36.3	40.5	40.2	35.2	29.4	23.9	23.9	21.7	19.0	18.3	18.6
73°	34.3	38.2	37.9	33.2	27.6	22.6	22.7	20.6	18.0	17.1	17.6
73.5°	32.2	36.5	35.9	31.2	25.8	21.3	21.5	19.5	16.9	16.2	16.5
74°	30.2	34.4	33.9	29.2	24.2	20.2	20.4	18.5	15.9	15.2	15.5
74.5°	28.2	32.3	31.9	27.1	22.7	19.1	19.4	17.4	15.0	14.3	14.6
75°	26.3	30.3	29.9	25.4	21.1	18.1	18.3	16.4	14.1	13.5	13.7
75.5°	24.4	28.3	28.0	23.8	19.7	17.1	17.3	15.5	13.3	12.6	12.9
76°	22.7	26.4	26.1	22.1	18.4	16.2	16.4	14.6	12.3	11.7	12.0
76.5°	21.0	24.7	24.4	20.6	17.1	15.3	15.5	13.8	11.5	10.9	11.2
77°	19.4	23.1	22.8	19.2	15.9	14.5	14.6	12.9	10.8	10.2	10.5
77.5°	17.9	21.5	21.1	17.9	14.8	13.7	13.8	12.0	10.1	9.5	9.8
78°	16.4	20.0	19.6	16.5	13.7	12.9	13.0	11.2	9.4	8.8	9.1
78.5°	15.0	18.6	18.2	15.2	12.7	12.1	12.1	10.4	8.7	8.2	8.5
79°	13.7	17.2	16.7	14.1	11.7	11.4	11.3	9.7	8.1	7.6	7.9
79.5°	12.3	15.9	15.4	13.0	10.8	10.7	10.6	9.0	7.4	6.8	7.2
80°	11.1	14.7	14.2	11.8	10.1	10.0	9.9	8.4	6.7	6.2	6.5
80.5°	10.0	13.5	13.1	10.9	9.3	9.4	9.2	7.7	6.1	5.6	5.9
81°	8.9	12.3	11.9	10.0	8.7	8.8	8.6	6.9	5.6	5.1	5.4
81.5°	7.8	11.2	10.8	9.1	8.0	8.2	7.9	6.2	5.0	4.6	4.9
82°	6.7	10.2	9.8	8.3	7.3	7.4	7.2	5.6	4.5	4.1	4.4
82.5°	5.8	9.2	8.9	7.6	6.6	6.8	6.5	5.1	4.0	3.6	3.9
83°	4.9	8.3	8.0	6.8	6.0	6.2	5.9	4.5	3.5	3.1	3.5
83.5°	4.0	7.3	7.1	6.1	5.5	5.7	5.3	4.0	3.1	2.7	3.1
84°	3.3	6.4	6.3	5.4	4.9	5.2	4.8	3.5	2.7	2.1	2.7
84.5°	2.6	5.6	5.6	4.8	4.5	4.7	4.3	3.0	2.1	1.8	2.2
85°	1.8	4.8	4.9	4.3	4.0	4.2	3.8	2.6	1.7	1.4	1.9
85.5°	1.1	4.0	4.2	3.7	3.5	3.7	3.3	2.1	1.4	1.2	1.5
86°	0.8	3.5	3.7	3.3	3.1	3.3	2.9	1.8	1.1	1.0	1.2
86.5°	0.6	2.9	3.2	2.8	2.7	2.8	2.4	1.5	0.9	0.8	0.9
87°	0.5	2.2	2.6	2.2	2.2	2.3	2.0	1.2	0.7	0.6	0.6
87.5°	0.3	1.7	2.0	1.8	1.8	1.9	1.6	1.0	0.5	0.4	0.3
88°	0.2	1.2	1.5	1.4	1.5	1.5	1.3	0.7	0.3	0.2	0.1
88.5°	0.1	0.7	1.0	1.0	1.2	1.1	0.9	0.5	0.2	0.1	0.0



TEST NUMBER: P775776

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-3000K

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	0.1	0.2	0.2	0.1	0.0	0.0	0.0	0.0



TEST NUMBER: P775776

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	533.2	533.2	533.2	533.2	533.2	533.2
0.5°	532.0	531.7	533.6	535.3	536.8	537.2
1°	530.5	531.6	534.7	537.7	539.8	540.3
1.5°	529.0	531.2	535.7	539.7	542.7	543.6
2°	527.4	530.9	536.8	541.9	545.5	546.8
2.5°	525.7	530.5	537.6	543.9	548.2	549.8
3°	524.1	530.1	538.4	545.7	550.9	552.8
3.5°	522.3	529.6	539.2	547.6	553.4	555.6
4°	520.4	529.0	539.8	549.3	555.9	558.4
4.5°	518.5	528.3	540.4	550.9	558.3	561.1
5°	516.6	527.6	540.9	552.6	560.6	563.8
5.5°	514.6	526.9	541.5	554.0	562.9	566.2
6°	512.5	526.0	541.9	555.4	564.9	568.7
6.5°	510.4	525.1	542.1	556.8	567.0	570.9
7°	508.3	524.1	542.3	558.0	568.8	573.2
7.5°	506.0	523.1	542.5	559.1	570.6	575.3
8°	503.8	522.0	542.5	560.1	572.4	577.3
8.5°	501.5	520.7	542.5	561.0	574.0	579.2
9°	499.1	519.6	542.4	561.9	575.5	581.0
9.5°	496.7	518.2	542.2	562.7	577.0	582.8
10°	494.2	516.9	541.9	563.3	578.3	584.4
10.5°	491.8	515.5	541.6	563.8	579.5	585.9
11°	489.1	514.0	541.0	564.3	580.6	587.4
11.5°	486.6	512.4	540.5	564.6	581.6	588.6
12°	483.8	510.7	539.9	564.9	582.5	589.8
12.5°	481.0	509.0	539.2	565.0	583.3	590.9
13°	478.3	507.3	538.5	565.1	583.9	591.9
13.5°	475.5	505.5	537.6	565.0	584.4	592.8
14°	472.7	503.6	536.7	564.9	584.9	593.5
14.5°	469.7	501.7	535.6	564.6	585.2	594.1
15°	466.8	499.6	534.4	564.3	585.4	594.6
15.5°	463.8	497.5	533.2	563.8	585.5	595.0
16°	460.7	495.4	532.0	563.3	585.5	595.3
16.5°	457.7	493.2	530.6	562.6	585.4	595.5
17°	454.5	490.9	529.1	561.9	585.2	595.6
17.5°	451.3	488.6	527.6	560.9	584.9	595.5
18°	448.1	486.1	525.9	560.0	584.5	595.4
18.5°	444.8	483.7	524.2	558.9	583.9	595.1
19°	441.6	481.1	522.4	557.8	583.3	594.8
19.5°	438.2	478.6	520.5	556.5	582.5	594.3
20°	434.8	475.8	518.5	555.1	581.7	593.7
20.5°	431.4	473.2	516.5	553.6	580.6	593.0
21°	427.9	470.4	514.3	552.1	579.5	592.2

TEST NUMBER: P775776

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	417.4	461.6	507.4	546.8	575.5	589.0
23°	413.7	458.6	504.8	544.7	574.0	587.7
23.5°	410.2	455.5	502.3	542.7	572.4	586.4
24°	406.4	452.4	499.6	540.5	570.5	584.7
24.5°	402.7	449.2	496.9	538.2	568.6	583.1
25°	399.0	445.7	494.0	535.7	566.6	581.3
25.5°	395.3	442.5	491.1	533.2	564.3	579.3
26°	391.5	439.1	488.2	530.6	562.2	577.4
26.5°	387.6	435.8	485.2	527.9	559.7	575.1
27°	383.8	432.2	482.1	525.0	557.3	572.9
27.5°	379.9	428.5	478.8	522.2	554.6	570.4
28°	376.0	425.1	475.4	519.1	551.8	567.9
28.5°	372.1	421.4	472.1	515.9	548.8	565.1
29°	368.1	417.8	468.6	512.7	545.7	562.2
29.5°	364.2	414.1	464.9	509.2	542.4	559.0
30°	360.1	410.2	461.4	505.6	538.9	555.6
30.5°	356.0	406.4	457.6	501.9	535.1	552.2
31°	352.1	402.5	453.9	498.0	531.2	548.6
31.5°	348.0	398.8	449.9	493.8	527.1	544.7
32°	343.9	394.5	445.8	489.5	522.9	540.8
32.5°	339.8	390.5	441.6	485.1	518.5	536.6
33°	335.6	386.3	437.1	480.4	514.0	531.9
33.5°	331.5	382.4	432.7	475.6	509.2	527.0
34°	327.4	378.1	427.8	470.4	503.9	522.3
34.5°	323.3	373.7	422.8	465.1	498.4	517.1
35°	319.0	369.3	417.7	459.7	492.8	511.9
35.5°	314.9	364.6	412.4	454.1	487.1	506.2
36°	310.7	359.7	407.0	448.2	481.0	500.2
36.5°	306.4	354.9	401.3	442.1	474.7	494.1
37°	302.2	349.8	395.3	435.5	468.0	487.6
37.5°	297.8	344.3	389.3	428.8	460.9	480.8
38°	293.5	338.9	382.7	421.9	453.5	473.8
38.5°	289.1	333.4	376.2	414.5	445.8	466.2
39°	284.6	327.7	369.2	406.8	437.8	458.6
39.5°	279.9	321.6	362.5	398.6	429.2	450.3
40°	275.1	315.7	355.1	390.2	420.2	441.6
40.5°	270.0	309.6	348.0	382.2	411.2	432.5
41°	265.0	303.5	340.7	373.6	402.1	423.3
41.5°	259.8	297.5	333.4	365.1	392.8	414.0
42°	254.5	291.0	326.1	356.6	383.3	404.3
42.5°	249.4	284.7	318.7	348.2	374.2	394.9
43°	244.1	278.4	311.0	339.5	365.1	385.5
43.5°	238.8	272.2	303.6	330.9	355.8	376.0



TEST NUMBER: P775776

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	222.8	252.7	280.8	305.5	328.8	348.1
45.5°	217.5	246.4	273.3	297.3	320.0	339.2
46°	212.1	239.9	265.7	288.8	311.1	330.1
46.5°	206.7	233.7	258.4	280.8	302.7	320.7
47°	201.2	227.3	251.0	272.8	294.0	312.1
47.5°	195.7	220.7	243.4	264.9	285.4	302.9
48°	190.4	214.4	236.1	257.1	277.1	294.3
48.5°	185.1	208.1	229.1	249.6	269.0	285.9
49°	179.6	202.0	222.2	241.9	260.8	277.3
49.5°	174.4	195.6	215.1	234.5	253.1	269.1
50°	169.1	189.4	208.1	227.3	245.0	260.7
50.5°	163.8	183.2	201.6	220.0	237.6	252.4
51°	158.6	177.2	194.9	213.1	230.0	244.7
51.5°	153.7	171.0	188.6	206.1	222.6	236.8
52°	148.3	165.3	182.4	199.5	215.4	229.0
52.5°	143.2	159.6	176.1	193.0	208.4	221.8
53°	138.2	153.7	170.0	186.4	201.4	214.2
53.5°	133.3	148.1	164.1	180.2	194.8	207.2
54°	128.3	142.8	158.4	173.9	188.1	199.9
54.5°	123.6	137.4	152.7	168.1	181.7	193.0
55°	118.8	132.0	147.1	162.0	175.5	186.6
55.5°	114.0	127.0	141.8	156.4	169.4	179.9
56°	109.4	122.0	136.4	150.8	163.5	173.8
56.5°	104.9	117.1	131.3	145.4	157.5	167.4
57°	100.5	112.5	126.2	140.0	151.8	161.4
57.5°	96.2	107.8	121.4	134.8	146.3	155.6
58°	92.0	103.3	116.6	129.9	141.0	149.8
58.5°	88.2	98.8	111.8	124.9	135.7	144.3
59°	84.2	94.6	107.6	120.1	130.6	138.7
59.5°	80.2	90.4	102.9	115.4	125.8	133.4
60°	76.3	86.3	98.8	110.9	120.9	127.9
60.5°	72.8	82.5	94.6	106.4	116.4	122.7
61°	69.3	78.6	90.5	102.0	111.6	117.8
61.5°	65.8	74.9	86.6	98.1	107.2	112.9
62°	62.5	71.3	82.9	94.0	103.0	108.1
62.5°	59.3	67.9	79.1	90.0	98.7	103.4
63°	56.2	64.4	75.5	86.1	94.5	99.0
63.5°	53.3	61.1	71.9	82.6	90.4	94.6
64°	50.4	58.1	68.6	78.9	86.4	90.2
64.5°	47.8	55.0	65.4	75.4	82.8	86.0
65°	45.2	52.1	62.2	71.9	79.0	82.1
65.5°	42.7	49.4	59.2	68.8	75.4	78.4
66°	40.3	46.6	56.1	65.6	71.8	74.5



TEST NUMBER: P775776

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	33.9	39.2	48.1	56.7	62.1	64.2
68°	31.9	37.0	45.4	53.9	59.2	60.9
68.5°	30.0	35.0	43.0	51.2	56.2	57.9
69°	28.4	33.1	40.6	48.6	53.5	54.8
69.5°	26.6	31.1	38.4	46.1	50.6	51.8
70°	25.1	29.1	36.3	43.7	48.1	49.1
70.5°	23.6	27.1	34.3	41.3	45.5	46.4
71°	22.2	25.5	32.3	39.1	43.2	43.8
71.5°	20.8	23.9	30.4	36.9	40.7	41.2
72°	19.6	22.2	28.4	35.0	38.5	38.9
72.5°	18.4	20.8	26.6	33.1	36.2	36.3
73°	17.2	19.4	24.9	31.1	34.3	34.3
73.5°	16.1	18.2	23.4	29.2	32.3	32.2
74°	15.1	16.8	21.8	27.2	30.3	30.2
74.5°	14.1	15.6	20.4	25.5	28.4	28.2
75°	13.2	14.5	18.9	23.9	26.6	26.3
75.5°	12.3	13.4	17.6	22.2	24.9	24.4
76°	11.5	12.3	16.2	20.7	23.2	22.7
76.5°	10.8	11.3	15.0	19.2	21.5	21.0
77°	10.1	10.5	13.9	17.8	20.1	19.4
77.5°	9.4	9.7	12.8	16.4	18.7	17.9
78°	8.8	8.9	11.7	15.2	17.2	16.4
78.5°	8.2	8.2	10.7	14.0	15.9	15.0
79°	7.7	7.4	9.8	12.8	14.6	13.7
79.5°	7.0	6.7	9.0	11.6	13.4	12.3
80°	6.4	6.1	8.1	10.6	12.2	11.1
80.5°	5.9	5.6	7.3	9.6	11.1	10.0
81°	5.4	5.0	6.5	8.7	10.0	8.9
81.5°	4.9	4.5	5.9	7.8	9.0	7.8
82°	4.4	4.0	5.2	6.8	8.1	6.7
82.5°	4.0	3.6	4.6	6.1	7.1	5.8
83°	3.5	3.2	4.0	5.3	6.3	4.9
83.5°	3.1	2.7	3.5	4.6	5.5	4.0
84°	2.7	2.2	3.0	4.0	4.8	3.3
84.5°	2.2	1.8	2.4	3.4	4.1	2.6
85°	1.8	1.5	1.9	2.9	3.6	1.8
85.5°	1.4	1.1	1.5	2.2	3.0	1.1
86°	1.1	0.8	1.1	1.6	2.3	0.8
86.5°	0.8	0.5	0.7	1.1	1.8	0.6
87°	0.4	0.2	0.3	0.7	1.2	0.5
87.5°	0.2	0.1	0.1	0.3	0.7	0.3
88°	0.0	0.0	0.0	0.0	0.3	0.2
88.5°	0.0	0.0	0.0	0.0	0.0	0.1



TEST NUMBER: P775776
CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-3000K

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



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





21.5°	591.3	586.0	563.6	526.0	477.3	426.2	383.0	355.4	346.3	356.0	383.7
22°	590.2	584.9	562.2	524.1	474.7	422.8	378.8	350.8	341.6	351.6	379.5



44°	366.8	376.1	369.2	343.0	300.8	245.9	198.8	172.0	163.3	171.4	196.4
44.5°	357.6	367.0	361.2	336.0	295.1	241.3	195.0	168.4	159.6	167.8	192.2



66.5°	70.8	75.4	75.2	68.4	60.1	47.3	41.3	39.2	35.9	35.1	33.7
67°	67.5	71.9	71.5	65.0	56.9	44.7	39.6	37.6	34.2	33.5	32.2



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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





21.5°	424.5	467.4	512.1	550.3	578.4	591.3
22°	420.8	464.7	509.7	548.6	577.0	590.2



44°	233.4	265.7	296.0	322.4	346.6	366.8
44.5°	228.1	259.2	288.5	313.9	337.8	357.6



66.5°	38.0	44.1	53.4	62.6	68.6	70.8
67°	35.8	41.5	50.6	59.5	65.3	67.5

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)