

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



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: P775898

Luminaire Tested: HCDJBL5510CSD-HCD8TSQH-1000lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B005-HCD4TSQC)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD8TSQH-1000lm-4000K
Description: 8 INCH SQUARE MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

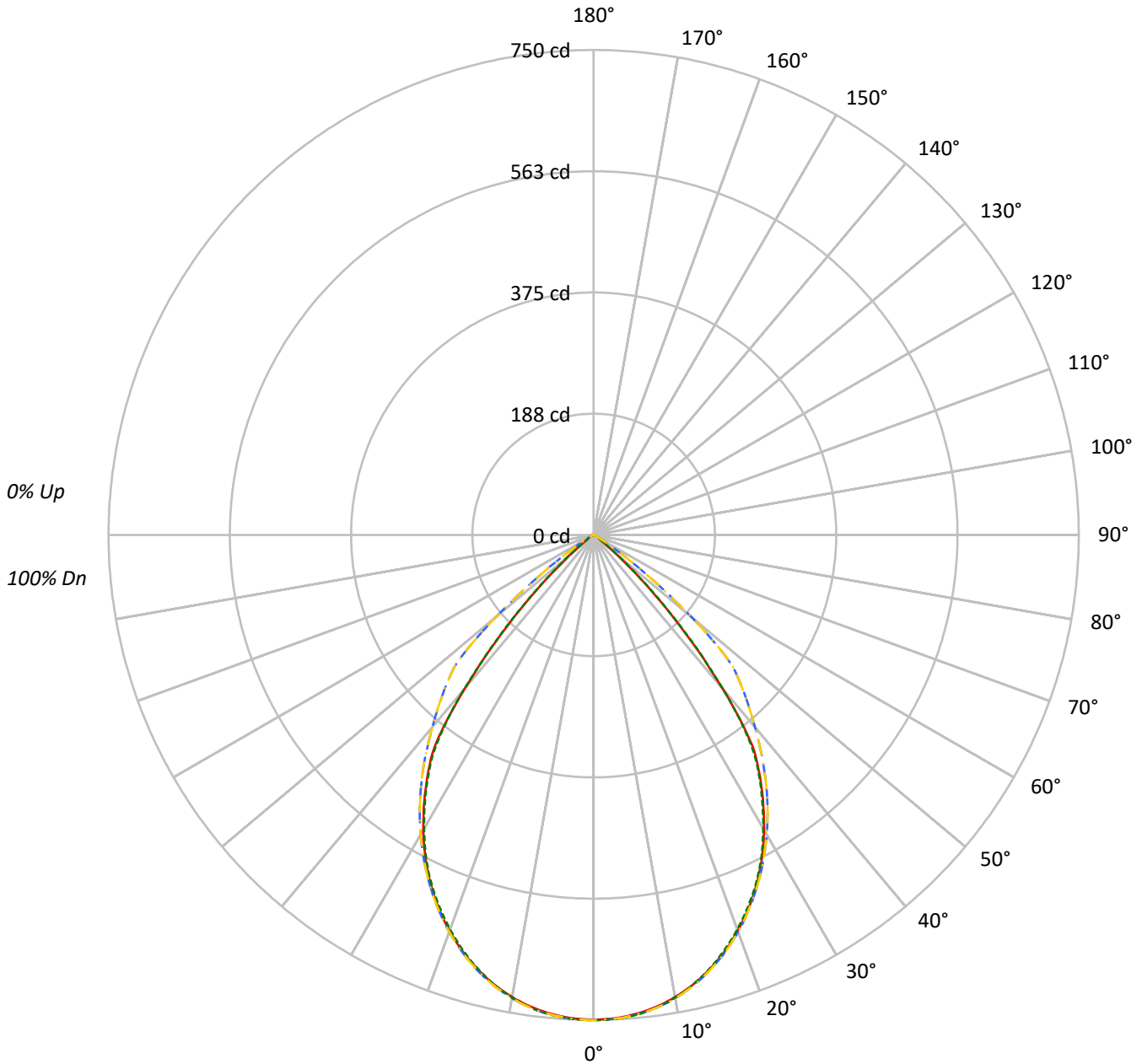
Lumens per Lamp: N/A
Luminaire Lumens: 1032.9 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.15
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
CIE Type: Direct

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	100	100	100	100		
	1	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92	92	92	92	92	92		
	2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84	84	84	84	84	84		
	3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	83	80	78	76	76	76	76	76	76		
	4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69	69	69	69	69	69		
	5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63	63	63	63	63	63		
	6	83	72	66	61	81	72	65	60	70	64	60	69	63	60	67	63	59	58	58	58	58	58	58		
	7	78	67	60	55	76	66	60	55	65	59	55	64	59	55	63	58	54	53	53	53	53	53	53		
	8	73	62	56	51	72	62	55	51	61	55	51	59	54	50	58	54	50	48	48	48	48	48	48		
	9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45	45	45	45	45	45		
	10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41	41	41	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17989	17989	17989	17989
5°	17903	17942	17903	17942
10°	17670	17684	17670	17684
15°	17248	17228	17248	17228
20°	16627	16563	16627	16563
25°	15769	15716	15769	15716
30°	14583	14517	14583	14517
35°	13032	12965	13032	12965
40°	9678	9732	9678	9732
45°	5073	5198	5073	5198
50°	1645	1779	1645	1779
55°	543	502	543	502
60°	412	388	412	388
65°	318	306	318	306
70°	252	245	252	245
75°	204	204	204	204
80°	166	180	166	180
85°	110	110	110	110

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 10780 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	6.8
10°-20°	195.4	18.9
20°-30°	273.8	26.5
30°-40°	281.2	27.2
40°-50°	170.4	16.5
50°-60°	32.0	3.1
60°-70°	6.2	0.6
70°-80°	2.8	0.3
80°-90°	0.6	0.1
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°	539.7	52.3
0°-40°	821.0	79.5
0°-60°	1023.4	99.1
0°-90°	1032.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1032.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	750	750	750	750	750	
5°	744	745	744	745	744	70
15°	695	694	695	694	695	195
25°	596	594	596	594	596	273
35°	445	443	445	443	445	272
45°	150	153	150	153	150	120
55°	13	12	13	12	13	15
65°	6	5	6	5	6	6
75°	2	2	2	2	2	2
85°	0	0	0	0	0	0
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°	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2	750.2
0.5°	749.4	749.8	750.3	750.6	750.4	750.6	750.3	749.8	749.4	749.8	750.3
1°	749.3	749.7	750.1	750.4	750.3	750.4	750.1	749.7	749.3	749.7	750.1
1.5°	749.0	749.3	749.9	750.2	750.1	750.2	749.9	749.3	749.0	749.3	749.9
2°	748.6	748.9	749.4	749.9	749.7	749.9	749.4	748.9	748.6	748.9	749.4
2.5°	748.1	748.4	749.0	749.3	749.2	749.3	749.0	748.4	748.1	748.4	749.0
3°	747.5	747.9	748.4	748.8	748.7	748.8	748.4	747.9	747.5	747.9	748.4
3.5°	746.7	747.1	747.8	748.2	748.1	748.2	747.8	747.1	746.7	747.1	747.8
4°	745.9	746.3	746.9	747.5	747.3	747.5	746.9	746.3	745.9	746.3	746.9
4.5°	744.9	745.2	746.0	746.5	746.4	746.5	746.0	745.2	744.9	745.2	746.0
5°	743.8	744.2	745.0	745.6	745.4	745.6	745.0	744.2	743.8	744.2	745.0
5.5°	742.6	743.0	743.9	744.4	744.1	744.4	743.9	743.0	742.6	743.0	743.9
6°	741.1	741.7	742.6	743.1	742.8	743.1	742.6	741.7	741.1	741.7	742.6
6.5°	739.7	740.3	741.3	741.7	741.3	741.7	741.3	740.3	739.7	740.3	741.3
7°	738.1	738.7	739.7	740.0	739.6	740.0	739.7	738.7	738.1	738.7	739.7
7.5°	736.3	737.1	738.0	738.2	737.7	738.2	738.0	737.1	736.3	737.1	738.0
8°	734.4	735.3	736.2	736.3	735.8	736.3	736.2	735.3	734.4	735.3	736.2
8.5°	732.4	733.3	734.2	734.1	733.6	734.1	734.2	733.3	732.4	733.3	734.2
9°	730.3	731.2	732.1	731.9	731.3	731.9	732.1	731.2	730.3	731.2	732.1
9.5°	728.1	729.0	729.9	729.5	728.9	729.5	729.9	729.0	728.1	729.0	729.9
10°	725.7	726.8	727.5	727.1	726.3	727.1	727.5	726.8	725.7	726.8	727.5
10.5°	723.2	724.2	725.0	724.5	723.7	724.5	725.0	724.2	723.2	724.2	725.0
11°	720.6	721.7	722.4	721.7	720.9	721.7	722.4	721.7	720.6	721.7	722.4
11.5°	717.8	719.0	719.5	718.8	717.9	718.8	719.5	719.0	717.8	719.0	719.5
12°	714.9	716.2	716.6	715.8	715.0	715.8	716.6	716.2	714.9	716.2	716.6
12.5°	711.8	713.2	713.5	712.7	711.7	712.7	713.5	713.2	711.8	713.2	713.5
13°	708.7	710.1	710.4	709.4	708.5	709.4	710.4	710.1	708.7	710.1	710.4
13.5°	705.4	706.8	707.0	706.1	705.0	706.1	707.0	706.8	705.4	706.8	707.0
14°	702.0	703.6	703.7	702.6	701.5	702.6	703.7	703.6	702.0	703.6	703.7
14.5°	698.5	700.0	700.1	698.9	697.8	698.9	700.1	700.0	698.5	700.0	700.1
15°	694.8	696.4	696.5	695.1	694.0	695.1	696.5	696.4	694.8	696.4	696.5
15.5°	691.1	692.7	692.6	691.3	690.0	691.3	692.6	692.7	691.1	692.7	692.6
16°	687.2	688.8	688.7	687.3	686.0	687.3	688.7	688.8	687.2	688.8	688.7
16.5°	683.2	684.9	684.6	683.2	681.8	683.2	684.6	684.9	683.2	684.9	684.6
17°	679.1	680.8	680.6	678.9	677.5	678.9	680.6	680.8	679.1	680.8	680.6
17.5°	674.8	676.6	676.2	674.6	673.1	674.6	676.2	676.6	674.8	676.6	676.2
18°	670.4	672.1	671.7	670.0	668.5	670.0	671.7	672.1	670.4	672.1	671.7
18.5°	665.8	667.6	667.3	665.5	663.7	665.5	667.3	667.6	665.8	667.6	667.3
19°	661.2	663.1	662.7	660.8	659.0	660.8	662.7	663.1	661.2	663.1	662.7
19.5°	656.4	658.4	657.9	656.0	654.1	656.0	657.9	658.4	656.4	658.4	657.9
20°	651.6	653.6	653.0	651.1	649.1	651.1	653.0	653.6	651.6	653.6	653.0
20.5°	646.6	648.6	648.1	646.0	644.0	646.0	648.1	648.6	646.6	648.6	648.1
21°	641.5	643.5	643.1	640.9	638.8	640.9	643.1	643.5	641.5	643.5	643.1



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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°	625.4	627.6	627.1	624.8	622.8	624.8	627.1	627.6	625.4	627.6	627.1
23°	619.8	622.1	621.6	619.2	617.2	619.2	621.6	622.1	619.8	622.1	621.6
23.5°	614.1	616.5	616.1	613.7	611.8	613.7	616.1	616.5	614.1	616.5	616.1
24°	608.3	610.6	610.4	608.0	606.1	608.0	610.4	610.6	608.3	610.6	610.4
24.5°	602.2	604.7	604.6	602.3	600.1	602.3	604.6	604.7	602.2	604.7	604.6
25°	596.0	598.7	598.6	596.5	594.0	596.5	598.6	598.7	596.0	598.7	598.6
25.5°	589.8	592.6	592.6	590.4	587.9	590.4	592.6	592.6	589.8	592.6	592.6
26°	583.3	586.3	586.6	584.6	581.6	584.6	586.6	586.3	583.3	586.3	586.6
26.5°	576.8	579.9	580.4	578.4	575.0	578.4	580.4	579.9	576.8	579.9	580.4
27°	570.0	573.4	574.1	572.1	568.2	572.1	574.1	573.4	570.0	573.4	574.1
27.5°	563.2	566.8	567.8	565.6	561.3	565.6	567.8	566.8	563.2	566.8	567.8
28°	556.2	560.0	561.3	558.8	554.1	558.8	561.3	560.0	556.2	560.0	561.3
28.5°	549.1	553.1	554.7	552.0	546.8	552.0	554.7	553.1	549.1	553.1	554.7
29°	541.6	546.2	548.2	545.1	539.4	545.1	548.2	546.2	541.6	546.2	548.2
29.5°	534.1	539.2	541.7	537.8	531.8	537.8	541.7	539.2	534.1	539.2	541.7
30°	526.7	531.9	534.9	530.6	524.3	530.6	534.9	531.9	526.7	531.9	534.9
30.5°	519.0	524.6	528.2	523.1	516.5	523.1	528.2	524.6	519.0	524.6	528.2
31°	511.0	517.1	521.2	515.8	508.7	515.8	521.2	517.1	511.0	517.1	521.2
31.5°	503.3	509.7	514.4	508.2	500.8	508.2	514.4	509.7	503.3	509.7	514.4
32°	495.3	502.0	507.5	500.6	492.7	500.6	507.5	502.0	495.3	502.0	507.5
32.5°	487.2	494.2	500.4	492.8	484.6	492.8	500.4	494.2	487.2	494.2	500.4
33°	479.0	486.5	493.3	485.2	476.5	485.2	493.3	486.5	479.0	486.5	493.3
33.5°	470.8	478.8	486.0	477.4	468.2	477.4	486.0	478.8	470.8	478.8	486.0
34°	462.3	470.9	478.7	469.7	459.8	469.7	478.7	470.9	462.3	470.9	478.7
34.5°	453.9	462.9	471.3	461.9	451.3	461.9	471.3	462.9	453.9	462.9	471.3
35°	445.2	455.0	464.0	453.9	442.9	453.9	464.0	455.0	445.2	455.0	464.0
35.5°	436.8	447.1	456.3	446.0	434.5	446.0	456.3	447.1	436.8	447.1	456.3
36°	428.1	439.0	448.7	438.1	424.5	438.1	448.7	439.0	428.1	439.0	448.7
36.5°	418.7	430.7	441.2	430.0	413.3	430.0	441.2	430.7	418.7	430.7	441.2
37°	407.5	422.6	433.5	421.9	400.9	421.9	433.5	422.6	407.5	422.6	433.5
37.5°	392.8	414.3	426.0	413.7	388.1	413.7	426.0	414.3	392.8	414.3	426.0
38°	378.0	406.1	418.1	405.6	374.4	405.6	418.1	406.1	378.0	406.1	418.1
38.5°	361.6	397.8	410.5	396.7	360.4	396.7	410.5	397.8	361.6	397.8	410.5
39°	344.6	389.2	403.0	386.3	344.8	386.3	403.0	389.2	344.6	389.2	403.0
39.5°	326.8	376.7	395.5	374.6	328.3	374.6	395.5	376.7	326.8	376.7	395.5
40°	309.2	363.3	388.0	361.9	310.9	361.9	388.0	363.3	309.2	363.3	388.0
40.5°	291.5	348.0	380.5	348.4	293.6	348.4	380.5	348.0	291.5	348.0	380.5
41°	274.8	332.3	373.3	333.9	277.1	333.9	373.3	332.3	274.8	332.3	373.3
41.5°	258.3	316.1	366.2	318.6	260.6	318.6	366.2	316.1	258.3	316.1	366.2
42°	242.1	299.9	359.2	302.7	244.6	302.7	359.2	299.9	242.1	299.9	359.2
42.5°	225.9	284.0	352.2	286.7	228.4	286.7	352.2	284.0	225.9	284.0	352.2
43°	209.9	267.8	345.3	270.6	212.8	270.6	345.3	267.8	209.9	267.8	345.3
43.5°	193.9	252.1	338.5	254.9	197.0	254.9	338.5	252.1	193.9	252.1	338.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	149.6	206.3	317.9	209.8	153.3	209.8	317.9	206.3	149.6	206.3	317.9
45.5°	135.7	191.2	311.1	194.9	140.0	194.9	311.1	191.2	135.7	191.2	311.1
46°	122.8	176.8	304.1	180.2	127.2	180.2	304.1	176.8	122.8	176.8	304.1
46.5°	110.1	162.7	297.0	165.9	114.2	165.9	297.0	162.7	110.1	162.7	297.0
47°	97.6	148.8	287.0	152.0	101.6	152.0	287.0	148.8	97.6	148.8	287.0
47.5°	85.6	135.5	274.8	138.9	90.3	138.9	274.8	135.5	85.6	135.5	274.8
48°	75.4	122.6	260.4	126.1	80.4	126.1	260.4	122.6	75.4	122.6	260.4
48.5°	66.1	110.3	245.0	113.7	71.2	113.7	245.0	110.3	66.1	110.3	245.0
49°	57.8	98.3	229.0	101.6	62.8	101.6	229.0	98.3	57.8	98.3	229.0
49.5°	50.5	86.7	212.5	90.6	54.9	90.6	212.5	86.7	50.5	86.7	212.5
50°	44.1	75.9	195.8	80.1	47.7	80.1	195.8	75.9	44.1	75.9	195.8
50.5°	38.1	66.2	179.3	70.5	40.9	70.5	179.3	66.2	38.1	66.2	179.3
51°	32.7	57.4	163.0	61.4	34.3	61.4	163.0	57.4	32.7	57.4	163.0
51.5°	28.3	49.8	147.8	53.2	28.9	53.2	147.8	49.8	28.3	49.8	147.8
52°	23.8	43.1	133.8	46.1	24.6	46.1	133.8	43.1	23.8	43.1	133.8
52.5°	20.1	37.1	120.1	39.5	21.6	39.5	120.1	37.1	20.1	37.1	120.1
53°	17.3	31.6	107.4	33.4	18.8	33.4	107.4	31.6	17.3	31.6	107.4
53.5°	14.8	27.0	94.9	27.7	15.9	27.7	94.9	27.0	14.8	27.0	94.9
54°	14.2	22.6	83.5	22.7	13.0	22.7	83.5	22.6	14.2	22.6	83.5
54.5°	13.5	18.9	72.6	18.8	12.4	18.8	72.6	18.9	13.5	18.9	72.6
55°	13.0	15.6	62.9	15.8	12.0	15.8	62.9	15.6	13.0	15.6	62.9
55.5°	12.5	13.3	54.2	13.5	11.4	13.5	54.2	13.3	12.5	13.3	54.2
56°	12.0	12.3	46.3	11.9	11.0	11.9	46.3	12.3	12.0	12.3	46.3
56.5°	11.4	11.8	39.3	11.0	10.6	11.0	39.3	11.8	11.4	11.8	39.3
57°	11.0	11.3	33.4	10.6	10.2	10.6	33.4	11.3	11.0	11.3	33.4
57.5°	10.5	10.9	28.3	10.2	9.8	10.2	28.3	10.9	10.5	10.9	28.3
58°	10.1	10.5	24.1	9.9	9.5	9.9	24.1	10.5	10.1	10.5	24.1
58.5°	9.7	10.1	20.3	9.5	9.0	9.5	20.3	10.1	9.7	10.1	20.3
59°	9.3	9.8	17.2	9.1	8.7	9.1	17.2	9.8	9.3	9.8	17.2
59.5°	8.9	9.5	14.6	8.8	8.4	8.8	14.6	9.5	8.9	9.5	14.6
60°	8.6	9.0	12.3	8.5	8.1	8.5	12.3	9.0	8.6	9.0	12.3
60.5°	8.2	8.7	10.9	8.2	7.7	8.2	10.9	8.7	8.2	8.7	10.9
61°	7.9	8.4	9.9	8.0	7.5	8.0	9.9	8.4	7.9	8.4	9.9
61.5°	7.6	8.1	9.0	7.7	7.1	7.7	9.0	8.1	7.6	8.1	9.0
62°	7.2	7.9	8.5	7.4	6.8	7.4	8.5	7.9	7.2	7.9	8.5
62.5°	6.9	7.6	8.1	7.1	6.6	7.1	8.1	7.6	6.9	7.6	8.1
63°	6.6	7.2	7.8	6.9	6.3	6.9	7.8	7.2	6.6	7.2	7.8
63.5°	6.4	7.0	7.5	6.6	6.1	6.6	7.5	7.0	6.4	7.0	7.5
64°	6.1	6.7	7.2	6.4	5.8	6.4	7.2	6.7	6.1	6.7	7.2
64.5°	5.9	6.5	6.9	6.2	5.6	6.2	6.9	6.5	5.9	6.5	6.9
65°	5.6	6.3	6.7	6.0	5.4	6.0	6.7	6.3	5.6	6.3	6.7
65.5°	5.4	6.0	6.4	5.8	5.1	5.8	6.4	6.0	5.4	6.0	6.4
66°	5.1	5.8	6.2	5.6	4.9	5.6	6.2	5.8	5.1	5.8	6.2



TEST NUMBER: P775898

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-1000lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	4.5	5.1	5.6	4.9	4.3	4.9	5.6	5.1	4.5	5.1	5.6
68°	4.3	4.9	5.4	4.7	4.2	4.7	5.4	4.9	4.3	4.9	5.4
68.5°	4.1	4.7	5.1	4.6	4.0	4.6	5.1	4.7	4.1	4.7	5.1
69°	4.0	4.5	4.9	4.4	3.8	4.4	4.9	4.5	4.0	4.5	4.9
69.5°	3.8	4.4	4.7	4.2	3.7	4.2	4.7	4.4	3.8	4.4	4.7
70°	3.6	4.2	4.5	4.1	3.5	4.1	4.5	4.2	3.6	4.2	4.5
70.5°	3.5	4.0	4.4	3.9	3.4	3.9	4.4	4.0	3.5	4.0	4.4
71°	3.3	3.9	4.2	3.8	3.3	3.8	4.2	3.9	3.3	3.9	4.2
71.5°	3.2	3.7	4.0	3.6	3.0	3.6	4.0	3.7	3.2	3.7	4.0
72°	2.9	3.6	3.9	3.5	2.9	3.5	3.9	3.6	2.9	3.6	3.9
72.5°	2.8	3.4	3.7	3.3	2.8	3.3	3.7	3.4	2.8	3.4	3.7
73°	2.7	3.3	3.5	3.2	2.6	3.2	3.5	3.3	2.7	3.3	3.5
73.5°	2.5	3.0	3.4	3.0	2.5	3.0	3.4	3.0	2.5	3.0	3.4
74°	2.4	2.9	3.2	2.8	2.4	2.8	3.2	2.9	2.4	2.9	3.2
74.5°	2.3	2.8	3.0	2.7	2.3	2.7	3.0	2.8	2.3	2.8	3.0
75°	2.2	2.6	2.8	2.6	2.2	2.6	2.8	2.6	2.2	2.6	2.8
75.5°	2.1	2.5	2.7	2.5	2.1	2.5	2.7	2.5	2.1	2.5	2.7
76°	2.0	2.4	2.6	2.3	2.0	2.3	2.6	2.4	2.0	2.4	2.6
76.5°	1.9	2.2	2.4	2.2	1.9	2.2	2.4	2.2	1.9	2.2	2.4
77°	1.7	2.1	2.3	2.1	1.8	2.1	2.3	2.1	1.7	2.1	2.3
77.5°	1.6	2.0	2.2	2.0	1.7	2.0	2.2	2.0	1.6	2.0	2.2
78°	1.6	1.9	2.0	1.9	1.6	1.9	2.0	1.9	1.6	1.9	2.0
78.5°	1.5	1.8	1.9	1.8	1.5	1.8	1.9	1.8	1.5	1.8	1.9
79°	1.4	1.7	1.8	1.7	1.4	1.7	1.8	1.7	1.4	1.7	1.8
79.5°	1.3	1.5	1.7	1.6	1.3	1.6	1.7	1.5	1.3	1.5	1.7
80°	1.2	1.4	1.6	1.5	1.3	1.5	1.6	1.4	1.2	1.4	1.6
80.5°	1.1	1.3	1.5	1.4	1.2	1.4	1.5	1.3	1.1	1.3	1.5
81°	0.9	1.2	1.4	1.3	1.1	1.3	1.4	1.2	0.9	1.2	1.4
81.5°	0.9	1.1	1.3	1.2	0.9	1.2	1.3	1.1	0.9	1.1	1.3
82°	0.8	0.9	1.2	1.1	0.9	1.1	1.2	0.9	0.8	0.9	1.2
82.5°	0.7	0.8	1.1	0.9	0.8	0.9	1.1	0.8	0.7	0.8	1.1
83°	0.6	0.8	0.9	0.8	0.7	0.8	0.9	0.8	0.6	0.8	0.9
83.5°	0.6	0.7	0.8	0.8	0.6	0.8	0.8	0.7	0.6	0.7	0.8
84°	0.5	0.6	0.7	0.7	0.6	0.7	0.7	0.6	0.5	0.6	0.7
84.5°	0.4	0.5	0.6	0.6	0.5	0.6	0.6	0.5	0.4	0.5	0.6
85°	0.4	0.4	0.5	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.5
85.5°	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4
86°	0.2	0.3	0.4	0.4	0.3	0.4	0.4	0.3	0.2	0.3	0.4
86.5°	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3
87°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2
87.5°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2
88°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
88.5°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1



TEST NUMBER: P775898
CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-1000lm-4000K

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: P775898

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-1000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	750.2	750.2	750.2	750.2	750.2	750.2
0.5°	750.6	750.4	750.6	750.3	749.8	749.4
1°	750.4	750.3	750.4	750.1	749.7	749.3
1.5°	750.2	750.1	750.2	749.9	749.3	749.0
2°	749.9	749.7	749.9	749.4	748.9	748.6
2.5°	749.3	749.2	749.3	749.0	748.4	748.1
3°	748.8	748.7	748.8	748.4	747.9	747.5
3.5°	748.2	748.1	748.2	747.8	747.1	746.7
4°	747.5	747.3	747.5	746.9	746.3	745.9
4.5°	746.5	746.4	746.5	746.0	745.2	744.9
5°	745.6	745.4	745.6	745.0	744.2	743.8
5.5°	744.4	744.1	744.4	743.9	743.0	742.6
6°	743.1	742.8	743.1	742.6	741.7	741.1
6.5°	741.7	741.3	741.7	741.3	740.3	739.7
7°	740.0	739.6	740.0	739.7	738.7	738.1
7.5°	738.2	737.7	738.2	738.0	737.1	736.3
8°	736.3	735.8	736.3	736.2	735.3	734.4
8.5°	734.1	733.6	734.1	734.2	733.3	732.4
9°	731.9	731.3	731.9	732.1	731.2	730.3
9.5°	729.5	728.9	729.5	729.9	729.0	728.1
10°	727.1	726.3	727.1	727.5	726.8	725.7
10.5°	724.5	723.7	724.5	725.0	724.2	723.2
11°	721.7	720.9	721.7	722.4	721.7	720.6
11.5°	718.8	717.9	718.8	719.5	719.0	717.8
12°	715.8	715.0	715.8	716.6	716.2	714.9
12.5°	712.7	711.7	712.7	713.5	713.2	711.8
13°	709.4	708.5	709.4	710.4	710.1	708.7
13.5°	706.1	705.0	706.1	707.0	706.8	705.4
14°	702.6	701.5	702.6	703.7	703.6	702.0
14.5°	698.9	697.8	698.9	700.1	700.0	698.5
15°	695.1	694.0	695.1	696.5	696.4	694.8
15.5°	691.3	690.0	691.3	692.6	692.7	691.1
16°	687.3	686.0	687.3	688.7	688.8	687.2
16.5°	683.2	681.8	683.2	684.6	684.9	683.2
17°	678.9	677.5	678.9	680.6	680.8	679.1
17.5°	674.6	673.1	674.6	676.2	676.6	674.8
18°	670.0	668.5	670.0	671.7	672.1	670.4
18.5°	665.5	663.7	665.5	667.3	667.6	665.8
19°	660.8	659.0	660.8	662.7	663.1	661.2
19.5°	656.0	654.1	656.0	657.9	658.4	656.4
20°	651.1	649.1	651.1	653.0	653.6	651.6
20.5°	646.0	644.0	646.0	648.1	648.6	646.6
21°	640.9	638.8	640.9	643.1	643.5	641.5

TEST NUMBER: P775898

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-1000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	624.8	622.8	624.8	627.1	627.6	625.4
23°	619.2	617.2	619.2	621.6	622.1	619.8
23.5°	613.7	611.8	613.7	616.1	616.5	614.1
24°	608.0	606.1	608.0	610.4	610.6	608.3
24.5°	602.3	600.1	602.3	604.6	604.7	602.2
25°	596.5	594.0	596.5	598.6	598.7	596.0
25.5°	590.4	587.9	590.4	592.6	592.6	589.8
26°	584.6	581.6	584.6	586.6	586.3	583.3
26.5°	578.4	575.0	578.4	580.4	579.9	576.8
27°	572.1	568.2	572.1	574.1	573.4	570.0
27.5°	565.6	561.3	565.6	567.8	566.8	563.2
28°	558.8	554.1	558.8	561.3	560.0	556.2
28.5°	552.0	546.8	552.0	554.7	553.1	549.1
29°	545.1	539.4	545.1	548.2	546.2	541.6
29.5°	537.8	531.8	537.8	541.7	539.2	534.1
30°	530.6	524.3	530.6	534.9	531.9	526.7
30.5°	523.1	516.5	523.1	528.2	524.6	519.0
31°	515.8	508.7	515.8	521.2	517.1	511.0
31.5°	508.2	500.8	508.2	514.4	509.7	503.3
32°	500.6	492.7	500.6	507.5	502.0	495.3
32.5°	492.8	484.6	492.8	500.4	494.2	487.2
33°	485.2	476.5	485.2	493.3	486.5	479.0
33.5°	477.4	468.2	477.4	486.0	478.8	470.8
34°	469.7	459.8	469.7	478.7	470.9	462.3
34.5°	461.9	451.3	461.9	471.3	462.9	453.9
35°	453.9	442.9	453.9	464.0	455.0	445.2
35.5°	446.0	434.5	446.0	456.3	447.1	436.8
36°	438.1	424.5	438.1	448.7	439.0	428.1
36.5°	430.0	413.3	430.0	441.2	430.7	418.7
37°	421.9	400.9	421.9	433.5	422.6	407.5
37.5°	413.7	388.1	413.7	426.0	414.3	392.8
38°	405.6	374.4	405.6	418.1	406.1	378.0
38.5°	396.7	360.4	396.7	410.5	397.8	361.6
39°	386.3	344.8	386.3	403.0	389.2	344.6
39.5°	374.6	328.3	374.6	395.5	376.7	326.8
40°	361.9	310.9	361.9	388.0	363.3	309.2
40.5°	348.4	293.6	348.4	380.5	348.0	291.5
41°	333.9	277.1	333.9	373.3	332.3	274.8
41.5°	318.6	260.6	318.6	366.2	316.1	258.3
42°	302.7	244.6	302.7	359.2	299.9	242.1
42.5°	286.7	228.4	286.7	352.2	284.0	225.9
43°	270.6	212.8	270.6	345.3	267.8	209.9
43.5°	254.9	197.0	254.9	338.5	252.1	193.9



TEST NUMBER: P775898

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-1000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	209.8	153.3	209.8	317.9	206.3	149.6
45.5°	194.9	140.0	194.9	311.1	191.2	135.7
46°	180.2	127.2	180.2	304.1	176.8	122.8
46.5°	165.9	114.2	165.9	297.0	162.7	110.1
47°	152.0	101.6	152.0	287.0	148.8	97.6
47.5°	138.9	90.3	138.9	274.8	135.5	85.6
48°	126.1	80.4	126.1	260.4	122.6	75.4
48.5°	113.7	71.2	113.7	245.0	110.3	66.1
49°	101.6	62.8	101.6	229.0	98.3	57.8
49.5°	90.6	54.9	90.6	212.5	86.7	50.5
50°	80.1	47.7	80.1	195.8	75.9	44.1
50.5°	70.5	40.9	70.5	179.3	66.2	38.1
51°	61.4	34.3	61.4	163.0	57.4	32.7
51.5°	53.2	28.9	53.2	147.8	49.8	28.3
52°	46.1	24.6	46.1	133.8	43.1	23.8
52.5°	39.5	21.6	39.5	120.1	37.1	20.1
53°	33.4	18.8	33.4	107.4	31.6	17.3
53.5°	27.7	15.9	27.7	94.9	27.0	14.8
54°	22.7	13.0	22.7	83.5	22.6	14.2
54.5°	18.8	12.4	18.8	72.6	18.9	13.5
55°	15.8	12.0	15.8	62.9	15.6	13.0
55.5°	13.5	11.4	13.5	54.2	13.3	12.5
56°	11.9	11.0	11.9	46.3	12.3	12.0
56.5°	11.0	10.6	11.0	39.3	11.8	11.4
57°	10.6	10.2	10.6	33.4	11.3	11.0
57.5°	10.2	9.8	10.2	28.3	10.9	10.5
58°	9.9	9.5	9.9	24.1	10.5	10.1
58.5°	9.5	9.0	9.5	20.3	10.1	9.7
59°	9.1	8.7	9.1	17.2	9.8	9.3
59.5°	8.8	8.4	8.8	14.6	9.5	8.9
60°	8.5	8.1	8.5	12.3	9.0	8.6
60.5°	8.2	7.7	8.2	10.9	8.7	8.2
61°	8.0	7.5	8.0	9.9	8.4	7.9
61.5°	7.7	7.1	7.7	9.0	8.1	7.6
62°	7.4	6.8	7.4	8.5	7.9	7.2
62.5°	7.1	6.6	7.1	8.1	7.6	6.9
63°	6.9	6.3	6.9	7.8	7.2	6.6
63.5°	6.6	6.1	6.6	7.5	7.0	6.4
64°	6.4	5.8	6.4	7.2	6.7	6.1
64.5°	6.2	5.6	6.2	6.9	6.5	5.9
65°	6.0	5.4	6.0	6.7	6.3	5.6
65.5°	5.8	5.1	5.8	6.4	6.0	5.4
66°	5.6	4.9	5.6	6.2	5.8	5.1



TEST NUMBER: P775898

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-1000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	4.9	4.3	4.9	5.6	5.1	4.5
68°	4.7	4.2	4.7	5.4	4.9	4.3
68.5°	4.6	4.0	4.6	5.1	4.7	4.1
69°	4.4	3.8	4.4	4.9	4.5	4.0
69.5°	4.2	3.7	4.2	4.7	4.4	3.8
70°	4.1	3.5	4.1	4.5	4.2	3.6
70.5°	3.9	3.4	3.9	4.4	4.0	3.5
71°	3.8	3.3	3.8	4.2	3.9	3.3
71.5°	3.6	3.0	3.6	4.0	3.7	3.2
72°	3.5	2.9	3.5	3.9	3.6	2.9
72.5°	3.3	2.8	3.3	3.7	3.4	2.8
73°	3.2	2.6	3.2	3.5	3.3	2.7
73.5°	3.0	2.5	3.0	3.4	3.0	2.5
74°	2.8	2.4	2.8	3.2	2.9	2.4
74.5°	2.7	2.3	2.7	3.0	2.8	2.3
75°	2.6	2.2	2.6	2.8	2.6	2.2
75.5°	2.5	2.1	2.5	2.7	2.5	2.1
76°	2.3	2.0	2.3	2.6	2.4	2.0
76.5°	2.2	1.9	2.2	2.4	2.2	1.9
77°	2.1	1.8	2.1	2.3	2.1	1.7
77.5°	2.0	1.7	2.0	2.2	2.0	1.6
78°	1.9	1.6	1.9	2.0	1.9	1.6
78.5°	1.8	1.5	1.8	1.9	1.8	1.5
79°	1.7	1.4	1.7	1.8	1.7	1.4
79.5°	1.6	1.3	1.6	1.7	1.5	1.3
80°	1.5	1.3	1.5	1.6	1.4	1.2
80.5°	1.4	1.2	1.4	1.5	1.3	1.1
81°	1.3	1.1	1.3	1.4	1.2	0.9
81.5°	1.2	0.9	1.2	1.3	1.1	0.9
82°	1.1	0.9	1.1	1.2	0.9	0.8
82.5°	0.9	0.8	0.9	1.1	0.8	0.7
83°	0.8	0.7	0.8	0.9	0.8	0.6
83.5°	0.8	0.6	0.8	0.8	0.7	0.6
84°	0.7	0.6	0.7	0.7	0.6	0.5
84.5°	0.6	0.5	0.6	0.6	0.5	0.4
85°	0.5	0.4	0.5	0.5	0.4	0.4
85.5°	0.4	0.4	0.4	0.4	0.3	0.3
86°	0.4	0.3	0.4	0.4	0.3	0.2
86.5°	0.3	0.3	0.3	0.3	0.2	0.2
87°	0.2	0.2	0.2	0.2	0.2	0.1
87.5°	0.2	0.2	0.2	0.2	0.1	0.1
88°	0.1	0.1	0.1	0.1	0.1	0.1
88.5°	0.1	0.1	0.1	0.1	0.0	0.0



TEST NUMBER: P775898
CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-1000lm-4000K

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

Signify Classified - Internal
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°	636.3	638.3	637.8	635.6	633.6	635.6	637.8	638.3	636.3	638.3	637.8
22°	630.8	633.1	632.5	630.2	628.1	630.2	632.5	633.1	630.8	633.1	632.5



44°	178.4	236.7	331.6	239.8	181.7	239.8	331.6	236.7	178.4	236.7	331.6
44.5°	163.9	221.7	324.8	224.8	166.7	224.8	324.8	221.7	163.9	221.7	324.8



66.5°	4.9	5.6	6.0	5.4	4.7	5.4	6.0	5.6	4.9	5.6	6.0
67°	4.7	5.4	5.8	5.1	4.5	5.1	5.8	5.4	4.7	5.4	5.8



89°	0.0	0.0	0.0	0.0	0.1	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	0.0	0.0	0.0	0.0	0.0

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21.5°	635.6	633.6	635.6	637.8	638.3	636.3
22°	630.2	628.1	630.2	632.5	633.1	630.8



44°	239.8	181.7	239.8	331.6	236.7	178.4
44.5°	224.8	166.7	224.8	324.8	221.7	163.9



66.5°	5.4	4.7	5.4	6.0	5.6	4.9
67°	5.1	4.5	5.1	5.8	5.4	4.7

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89°	0.0	0.1	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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Scaled Data Report



(END OF REPORT)