

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

Report Number: P869801

Luminaire Tested: HLBSL609FS5-5000K

Issue Date: 9/3/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P869801  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2402870-01B001)  
Test Lab:  
Issue Date: 9/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: HLBSL609FS5-5000K  
Description: 6IN 900LM, 90CRI, DIMMING TO 10%  
Light Source: SELECTABLE CCT 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

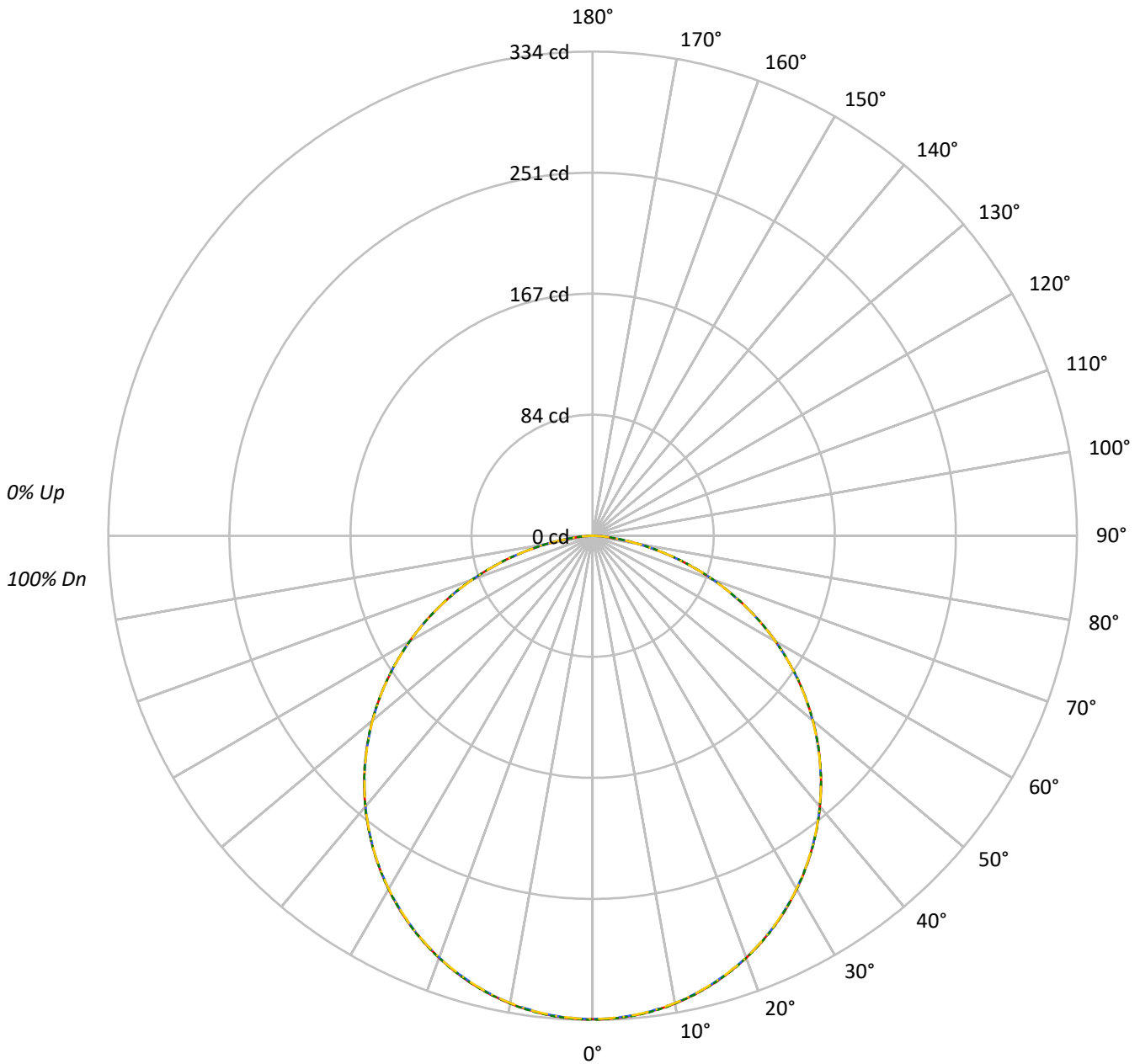
Lumens per Lamp: N/A  
Luminaire Lumens: 940.0 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.8  
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					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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84								
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70								
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59								
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50								
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43								
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38								
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34								
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	30								
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27								
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	18277	18277	18277	18277
5°	18275	18286	18275	18286
10°	18236	18242	18236	18242
15°	18173	18167	18173	18167
20°	18079	18073	18079	18073
25°	17959	17965	17959	17965
30°	17819	17819	17819	17819
35°	17648	17654	17648	17654
40°	17454	17454	17454	17454
45°	17211	17219	17211	17219
50°	16903	16912	16903	16912
55°	16516	16525	16516	16525
60°	15975	15986	15975	15986
65°	15216	15242	15216	15242
70°	14121	14153	14121	14153
75°	12454	12560	12454	12560
80°	9881	10134	9881	10134
85°	5724	7045	5724	7045

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 17219 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.5	3.4
10°-20°	90.3	9.6
20°-30°	136.7	14.5
30°-40°	164.8	17.5
40°-50°	171.0	18.2
50°-60°	154.2	16.4
60°-70°	115.9	12.3
70°-80°	62.4	6.6
80°-90°	13.1	1.4
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°	258.5	27.5
0°-40°	423.3	45.0
0°-60°	748.5	79.6
0°-90°	940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	940.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	333	333	333	333	333	
5°	332	332	332	332	332	32
15°	320	320	320	320	320	90
25°	297	297	297	297	297	137
35°	264	264	264	264	264	165
45°	222	222	222	222	222	171
55°	173	173	173	173	173	154
65°	117	118	117	118	117	116
75°	59	59	59	59	59	62
85°	9	11	9	11	9	12
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°	333.4	333.4	333.4	333.4	333.4	333.4	333.4	333.4	333.4	333.4	333.4
0.5°	333.6	333.4	333.3	332.9	333.8	332.9	333.3	333.4	333.6	333.4	333.3
1°	333.6	333.3	333.3	332.9	333.7	332.9	333.3	333.3	333.6	333.3	333.3
1.5°	333.5	333.3	333.2	332.8	333.6	332.8	333.2	333.3	333.5	333.3	333.2
2°	333.4	333.2	333.0	332.7	333.5	332.7	333.0	333.2	333.4	333.2	333.0
2.5°	333.2	333.0	332.8	332.6	333.3	332.6	332.8	333.0	333.2	333.0	332.8
3°	333.1	332.8	332.7	332.5	333.2	332.5	332.7	332.8	333.1	332.8	332.7
3.5°	332.9	332.6	332.5	332.2	332.9	332.2	332.5	332.6	332.9	332.6	332.5
4°	332.6	332.5	332.3	332.0	332.8	332.0	332.3	332.5	332.6	332.5	332.3
4.5°	332.4	332.2	332.0	331.7	332.5	331.7	332.0	332.2	332.4	332.2	332.0
5°	332.1	331.9	331.8	331.5	332.3	331.5	331.8	331.9	332.1	331.9	331.8
5.5°	331.7	331.6	331.4	331.2	332.0	331.2	331.4	331.6	331.7	331.6	331.4
6°	331.5	331.2	331.1	330.9	331.6	330.9	331.1	331.2	331.5	331.2	331.1
6.5°	331.1	330.8	330.7	330.5	331.2	330.5	330.7	330.8	331.1	330.8	330.7
7°	330.7	330.4	330.4	330.1	330.8	330.1	330.4	330.4	330.7	330.4	330.4
7.5°	330.2	330.0	329.8	329.6	330.3	329.6	329.8	330.0	330.2	330.0	329.8
8°	329.8	329.6	329.4	329.1	329.9	329.1	329.4	329.6	329.8	329.6	329.4
8.5°	329.3	329.1	328.9	328.7	329.4	328.7	328.9	329.1	329.3	329.1	328.9
9°	328.9	328.5	328.4	328.1	328.9	328.1	328.4	328.5	328.9	328.5	328.4
9.5°	328.2	327.9	327.9	327.6	328.3	327.6	327.9	327.9	328.2	327.9	327.9
10°	327.6	327.4	327.3	327.0	327.7	327.0	327.3	327.4	327.6	327.4	327.3
10.5°	327.0	326.8	326.6	326.3	327.0	326.3	326.6	326.8	327.0	326.8	326.6
11°	326.4	326.1	326.0	325.7	326.3	325.7	326.0	326.1	326.4	326.1	326.0
11.5°	325.6	325.5	325.3	325.0	325.7	325.0	325.3	325.5	325.6	325.5	325.3
12°	325.0	324.8	324.6	324.3	325.0	324.3	324.6	324.8	325.0	324.8	324.6
12.5°	324.3	324.0	323.9	323.5	324.3	323.5	323.9	324.0	324.3	324.0	323.9
13°	323.5	323.3	323.1	322.8	323.5	322.8	323.1	323.3	323.5	323.3	323.1
13.5°	322.6	322.5	322.3	322.0	322.7	322.0	322.3	322.5	322.6	322.5	322.3
14°	321.8	321.7	321.5	321.2	321.9	321.2	321.5	321.7	321.8	321.7	321.5
14.5°	321.0	320.8	320.6	320.3	320.9	320.3	320.6	320.8	321.0	320.8	320.6
15°	320.2	320.0	319.8	319.5	320.1	319.5	319.8	320.0	320.2	320.0	319.8
15.5°	319.3	319.1	318.9	318.6	319.2	318.6	318.9	319.1	319.3	319.1	318.9
16°	318.3	318.1	317.9	317.7	318.3	317.7	317.9	318.1	318.3	318.1	317.9
16.5°	317.3	317.1	316.9	316.7	317.3	316.7	316.9	317.1	317.3	317.1	316.9
17°	316.4	316.2	316.0	315.7	316.3	315.7	316.0	316.2	316.4	316.2	316.0
17.5°	315.3	315.2	315.0	314.7	315.3	314.7	315.0	315.2	315.3	315.2	315.0
18°	314.3	314.1	313.9	313.6	314.4	313.6	313.9	314.1	314.3	314.1	313.9
18.5°	313.2	313.1	312.9	312.5	313.3	312.5	312.9	313.1	313.2	313.1	312.9
19°	312.1	311.9	311.8	311.5	312.1	311.5	311.8	311.9	312.1	311.9	311.8
19.5°	311.0	310.8	310.7	310.3	311.0	310.3	310.7	310.8	311.0	310.8	310.7
20°	309.9	309.6	309.6	309.2	309.8	309.2	309.6	309.6	309.9	309.6	309.6
20.5°	308.6	308.5	308.4	308.1	308.7	308.1	308.4	308.5	308.6	308.5	308.4
21°	307.4	307.3	307.2	306.9	307.6	306.9	307.2	307.3	307.4	307.3	307.2



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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°	303.7	303.6	303.4	303.1	303.7	303.1	303.4	303.6	303.7	303.6	303.4
23°	302.4	302.3	302.1	301.8	302.4	301.8	302.1	302.3	302.4	302.3	302.1
23.5°	301.0	300.9	300.7	300.5	301.1	300.5	300.7	300.9	301.0	300.9	300.7
24°	299.7	299.5	299.4	299.2	299.8	299.2	299.4	299.5	299.7	299.5	299.4
24.5°	298.3	298.2	298.1	297.8	298.4	297.8	298.1	298.2	298.3	298.2	298.1
25°	296.9	296.8	296.6	296.3	297.0	296.3	296.6	296.8	296.9	296.8	296.6
25.5°	295.5	295.3	295.2	294.9	295.6	294.9	295.2	295.3	295.5	295.3	295.2
26°	294.1	293.9	293.7	293.4	294.0	293.4	293.7	293.9	294.1	293.9	293.7
26.5°	292.6	292.4	292.3	292.0	292.5	292.0	292.3	292.4	292.6	292.4	292.3
27°	291.1	290.9	290.8	290.5	291.0	290.5	290.8	290.9	291.1	290.9	290.8
27.5°	289.6	289.3	289.2	289.0	289.5	289.0	289.2	289.3	289.6	289.3	289.2
28°	288.0	287.8	287.6	287.4	288.0	287.4	287.6	287.8	288.0	287.8	287.6
28.5°	286.4	286.3	286.1	285.8	286.4	285.8	286.1	286.3	286.4	286.3	286.1
29°	284.8	284.6	284.5	284.2	284.8	284.2	284.5	284.6	284.8	284.6	284.5
29.5°	283.1	283.0	282.9	282.6	283.1	282.6	282.9	283.0	283.1	283.0	282.9
30°	281.5	281.3	281.2	281.0	281.5	281.0	281.2	281.3	281.5	281.3	281.2
30.5°	279.8	279.7	279.5	279.3	279.9	279.3	279.5	279.7	279.8	279.7	279.5
31°	278.1	277.9	277.8	277.6	278.2	277.6	277.8	277.9	278.1	277.9	277.8
31.5°	276.4	276.3	276.1	275.9	276.5	275.9	276.1	276.3	276.4	276.3	276.1
32°	274.7	274.5	274.4	274.1	274.7	274.1	274.4	274.5	274.7	274.5	274.4
32.5°	272.9	272.8	272.6	272.4	272.9	272.4	272.6	272.8	272.9	272.8	272.6
33°	271.1	271.0	270.9	270.6	271.2	270.6	270.9	271.0	271.1	271.0	270.9
33.5°	269.4	269.1	269.1	268.8	269.3	268.8	269.1	269.1	269.4	269.1	269.1
34°	267.5	267.3	267.2	267.0	267.5	267.0	267.2	267.3	267.5	267.3	267.2
34.5°	265.6	265.5	265.4	265.1	265.6	265.1	265.4	265.5	265.6	265.5	265.4
35°	263.7	263.6	263.5	263.2	263.8	263.2	263.5	263.6	263.7	263.6	263.5
35.5°	261.8	261.8	261.6	261.4	262.0	261.4	261.6	261.8	261.8	261.8	261.6
36°	259.9	259.8	259.7	259.5	260.0	259.5	259.7	259.8	259.9	259.8	259.7
36.5°	258.0	257.9	257.8	257.5	258.0	257.5	257.8	257.9	258.0	257.9	257.8
37°	256.1	255.9	255.8	255.6	256.1	255.6	255.8	255.9	256.1	255.9	255.8
37.5°	254.1	253.9	253.8	253.6	254.1	253.6	253.8	253.9	254.1	253.9	253.8
38°	252.0	252.0	251.8	251.7	252.1	251.7	251.8	252.0	252.0	252.0	251.8
38.5°	250.0	250.0	249.8	249.6	250.1	249.6	249.8	250.0	250.0	250.0	249.8
39°	248.1	247.9	247.8	247.5	248.1	247.5	247.8	247.9	248.1	247.9	247.8
39.5°	246.0	245.8	245.7	245.5	246.0	245.5	245.7	245.8	246.0	245.8	245.7
40°	243.9	243.8	243.6	243.4	243.9	243.4	243.6	243.8	243.9	243.8	243.6
40.5°	241.7	241.7	241.5	241.4	241.8	241.4	241.5	241.7	241.7	241.7	241.5
41°	239.7	239.5	239.5	239.3	239.7	239.3	239.5	239.5	239.7	239.5	239.5
41.5°	237.5	237.4	237.3	237.1	237.5	237.1	237.3	237.4	237.5	237.4	237.3
42°	235.3	235.3	235.1	234.9	235.4	234.9	235.1	235.3	235.3	235.3	235.1
42.5°	233.1	233.1	232.9	232.7	233.2	232.7	232.9	233.1	233.1	233.1	232.9
43°	231.0	230.9	230.7	230.6	231.1	230.6	230.7	230.9	231.0	230.9	230.7
43.5°	228.7	228.6	228.5	228.3	228.8	228.3	228.5	228.6	228.7	228.6	228.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	222.0	221.9	221.7	221.6	222.1	221.6	221.7	221.9	222.0	221.9	221.7
45.5°	219.6	219.5	219.5	219.3	219.8	219.3	219.5	219.5	219.6	219.5	219.5
46°	217.4	217.3	217.2	217.0	217.5	217.0	217.2	217.3	217.4	217.3	217.2
46.5°	215.1	214.9	214.9	214.7	215.1	214.7	214.9	214.9	215.1	214.9	214.9
47°	212.7	212.6	212.5	212.3	212.8	212.3	212.5	212.6	212.7	212.6	212.5
47.5°	210.3	210.2	210.1	210.0	210.4	210.0	210.1	210.2	210.3	210.2	210.1
48°	208.0	207.8	207.7	207.6	208.0	207.6	207.7	207.8	208.0	207.8	207.7
48.5°	205.5	205.5	205.4	205.2	205.7	205.2	205.4	205.5	205.5	205.5	205.4
49°	203.1	203.0	202.9	202.8	203.2	202.8	202.9	203.0	203.1	203.0	202.9
49.5°	200.7	200.6	200.5	200.3	200.7	200.3	200.5	200.6	200.7	200.6	200.5
50°	198.2	198.2	198.0	197.9	198.3	197.9	198.0	198.2	198.2	198.2	198.0
50.5°	195.8	195.7	195.5	195.4	195.8	195.4	195.5	195.7	195.8	195.7	195.5
51°	193.3	193.2	193.1	193.0	193.3	193.0	193.1	193.2	193.3	193.2	193.1
51.5°	190.8	190.7	190.6	190.5	190.9	190.5	190.6	190.7	190.8	190.7	190.6
52°	188.2	188.2	188.1	188.0	188.3	188.0	188.1	188.2	188.2	188.2	188.1
52.5°	185.7	185.7	185.6	185.4	185.8	185.4	185.6	185.7	185.7	185.7	185.6
53°	183.2	183.1	183.0	182.9	183.3	182.9	183.0	183.1	183.2	183.1	183.0
53.5°	180.6	180.5	180.4	180.3	180.7	180.3	180.4	180.5	180.6	180.5	180.4
54°	178.0	177.9	177.8	177.7	178.1	177.7	177.8	177.9	178.0	177.9	177.8
54.5°	175.4	175.3	175.2	175.1	175.5	175.1	175.2	175.3	175.4	175.3	175.2
55°	172.8	172.7	172.7	172.5	172.9	172.5	172.7	172.7	172.8	172.7	172.7
55.5°	170.2	170.1	170.0	169.9	170.3	169.9	170.0	170.1	170.2	170.1	170.0
56°	167.5	167.4	167.4	167.3	167.6	167.3	167.4	167.4	167.5	167.4	167.4
56.5°	164.9	164.8	164.7	164.6	164.9	164.6	164.7	164.8	164.9	164.8	164.7
57°	162.1	162.1	162.0	161.9	162.2	161.9	162.0	162.1	162.1	162.1	162.0
57.5°	159.3	159.3	159.2	159.1	159.5	159.1	159.2	159.3	159.3	159.3	159.2
58°	156.6	156.6	156.6	156.4	156.7	156.4	156.6	156.6	156.6	156.6	156.6
58.5°	153.9	153.9	153.8	153.7	154.0	153.7	153.8	153.9	153.9	153.9	153.8
59°	151.2	151.1	151.1	150.9	151.3	150.9	151.1	151.1	151.2	151.1	151.1
59.5°	148.4	148.4	148.3	148.2	148.5	148.2	148.3	148.4	148.4	148.4	148.3
60°	145.7	145.6	145.5	145.4	145.8	145.4	145.5	145.6	145.7	145.6	145.5
60.5°	142.9	142.8	142.8	142.7	143.0	142.7	142.8	142.8	142.9	142.8	142.8
61°	140.1	140.0	140.0	139.9	140.2	139.9	140.0	140.0	140.1	140.0	140.0
61.5°	137.3	137.2	137.2	137.1	137.4	137.1	137.2	137.2	137.3	137.2	137.2
62°	134.5	134.4	134.4	134.3	134.6	134.3	134.4	134.4	134.5	134.4	134.4
62.5°	131.6	131.6	131.6	131.5	131.8	131.5	131.6	131.6	131.6	131.6	131.6
63°	128.8	128.7	128.7	128.6	128.9	128.6	128.7	128.7	128.8	128.7	128.7
63.5°	125.9	125.9	125.8	125.8	126.1	125.8	125.8	125.9	125.9	125.9	125.8
64°	123.1	123.0	123.0	123.0	123.2	123.0	123.0	123.0	123.1	123.0	123.0
64.5°	120.2	120.2	120.1	120.1	120.4	120.1	120.1	120.2	120.2	120.2	120.1
65°	117.3	117.3	117.3	117.2	117.5	117.2	117.3	117.3	117.3	117.3	117.3
65.5°	114.4	114.4	114.4	114.4	114.6	114.4	114.4	114.4	114.4	114.4	114.4
66°	111.5	111.5	111.5	111.4	111.7	111.4	111.5	111.5	111.5	111.5	111.5





TEST NUMBER: P869801  
 CATALOG NUMBER: HLBSL609FS5-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	102.8	102.8	102.8	102.7	103.0	102.7	102.8	102.8	102.8	102.8	102.8
68°	99.8	99.8	99.8	99.8	100.0	99.8	99.8	99.8	99.8	99.8	99.8
68.5°	96.9	96.9	96.9	96.9	97.1	96.9	96.9	96.9	96.9	96.9	96.9
69°	94.0	93.9	93.9	93.9	94.2	93.9	93.9	93.9	94.0	93.9	93.9
69.5°	91.0	91.0	91.0	91.0	91.3	91.0	91.0	91.0	91.0	91.0	91.0
70°	88.1	88.0	88.1	88.1	88.3	88.1	88.1	88.0	88.1	88.0	88.1
70.5°	85.1	85.1	85.2	85.2	85.4	85.2	85.2	85.1	85.1	85.1	85.2
71°	82.1	82.2	82.2	82.3	82.5	82.3	82.2	82.2	82.1	82.2	82.2
71.5°	79.2	79.3	79.3	79.4	79.6	79.4	79.3	79.3	79.2	79.3	79.3
72°	76.3	76.3	76.4	76.4	76.6	76.4	76.4	76.3	76.3	76.3	76.4
72.5°	73.4	73.4	73.4	73.5	73.7	73.5	73.4	73.4	73.4	73.4	73.4
73°	70.4	70.5	70.5	70.6	70.8	70.6	70.5	70.5	70.4	70.5	70.5
73.5°	67.5	67.5	67.6	67.7	67.9	67.7	67.6	67.5	67.5	67.5	67.6
74°	64.6	64.6	64.7	64.8	65.0	64.8	64.7	64.6	64.6	64.6	64.7
74.5°	61.7	61.7	61.8	61.9	62.2	61.9	61.8	61.7	61.7	61.7	61.8
75°	58.8	58.8	58.9	59.0	59.3	59.0	58.9	58.8	58.8	58.8	58.9
75.5°	55.9	56.0	56.0	56.2	56.4	56.2	56.0	56.0	55.9	56.0	56.0
76°	53.0	53.1	53.2	53.3	53.6	53.3	53.2	53.1	53.0	53.1	53.2
76.5°	50.1	50.2	50.3	50.5	50.8	50.5	50.3	50.2	50.1	50.2	50.3
77°	47.3	47.4	47.5	47.8	48.1	47.8	47.5	47.4	47.3	47.4	47.5
77.5°	44.6	44.6	44.8	45.0	45.4	45.0	44.8	44.6	44.6	44.6	44.8
78°	41.8	41.9	42.1	42.3	42.6	42.3	42.1	41.9	41.8	41.9	42.1
78.5°	39.1	39.2	39.4	39.6	39.9	39.6	39.4	39.2	39.1	39.2	39.4
79°	36.5	36.5	36.7	36.9	37.3	36.9	36.7	36.5	36.5	36.5	36.7
79.5°	33.9	33.9	34.1	34.3	34.6	34.3	34.1	33.9	33.9	33.9	34.1
80°	31.3	31.3	31.5	31.7	32.1	31.7	31.5	31.3	31.3	31.3	31.5
80.5°	28.7	28.8	29.0	29.3	29.6	29.3	29.0	28.8	28.7	28.8	29.0
81°	26.2	26.3	26.5	26.8	27.2	26.8	26.5	26.3	26.2	26.3	26.5
81.5°	23.7	23.9	24.1	24.5	24.8	24.5	24.1	23.9	23.7	23.9	24.1
82°	21.3	21.5	21.8	22.2	22.5	22.2	21.8	21.5	21.3	21.5	21.8
82.5°	19.0	19.2	19.6	20.1	20.3	20.1	19.6	19.2	19.0	19.2	19.6
83°	16.8	17.0	17.5	18.0	18.2	18.0	17.5	17.0	16.8	17.0	17.5
83.5°	14.7	14.9	15.5	15.9	16.2	15.9	15.5	14.9	14.7	14.9	15.5
84°	12.7	13.0	13.5	14.0	14.3	14.0	13.5	13.0	12.7	13.0	13.5
84.5°	10.8	11.1	11.6	12.2	12.7	12.2	11.6	11.1	10.8	11.1	11.6
85°	9.1	9.3	9.9	10.6	11.2	10.6	9.9	9.3	9.1	9.3	9.9
85.5°	7.5	7.7	8.3	9.0	9.7	9.0	8.3	7.7	7.5	7.7	8.3
86°	6.1	6.3	6.9	7.6	8.2	7.6	6.9	6.3	6.1	6.3	6.9
86.5°	4.8	5.0	5.6	6.2	6.8	6.2	5.6	5.0	4.8	5.0	5.6
87°	3.6	3.8	4.5	5.2	5.8	5.2	4.5	3.8	3.6	3.8	4.5
87.5°	2.6	2.8	3.5	4.3	4.9	4.3	3.5	2.8	2.6	2.8	3.5
88°	1.7	2.0	2.7	3.5	4.1	3.5	2.7	2.0	1.7	2.0	2.7
88.5°	0.9	1.4	2.0	2.7	3.2	2.7	2.0	1.4	0.9	1.4	2.0



TEST NUMBER: P869801  
CATALOG NUMBER: HLBSL609FS5-5000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P869801

CATALOG NUMBER: HLBSL609FS5-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	333.4	333.4	333.4	333.4	333.4	333.4
0.5°	332.9	333.8	332.9	333.3	333.4	333.6
1°	332.9	333.7	332.9	333.3	333.3	333.6
1.5°	332.8	333.6	332.8	333.2	333.3	333.5
2°	332.7	333.5	332.7	333.0	333.2	333.4
2.5°	332.6	333.3	332.6	332.8	333.0	333.2
3°	332.5	333.2	332.5	332.7	332.8	333.1
3.5°	332.2	332.9	332.2	332.5	332.6	332.9
4°	332.0	332.8	332.0	332.3	332.5	332.6
4.5°	331.7	332.5	331.7	332.0	332.2	332.4
5°	331.5	332.3	331.5	331.8	331.9	332.1
5.5°	331.2	332.0	331.2	331.4	331.6	331.7
6°	330.9	331.6	330.9	331.1	331.2	331.5
6.5°	330.5	331.2	330.5	330.7	330.8	331.1
7°	330.1	330.8	330.1	330.4	330.4	330.7
7.5°	329.6	330.3	329.6	329.8	330.0	330.2
8°	329.1	329.9	329.1	329.4	329.6	329.8
8.5°	328.7	329.4	328.7	328.9	329.1	329.3
9°	328.1	328.9	328.1	328.4	328.5	328.9
9.5°	327.6	328.3	327.6	327.9	327.9	328.2
10°	327.0	327.7	327.0	327.3	327.4	327.6
10.5°	326.3	327.0	326.3	326.6	326.8	327.0
11°	325.7	326.3	325.7	326.0	326.1	326.4
11.5°	325.0	325.7	325.0	325.3	325.5	325.6
12°	324.3	325.0	324.3	324.6	324.8	325.0
12.5°	323.5	324.3	323.5	323.9	324.0	324.3
13°	322.8	323.5	322.8	323.1	323.3	323.5
13.5°	322.0	322.7	322.0	322.3	322.5	322.6
14°	321.2	321.9	321.2	321.5	321.7	321.8
14.5°	320.3	320.9	320.3	320.6	320.8	321.0
15°	319.5	320.1	319.5	319.8	320.0	320.2
15.5°	318.6	319.2	318.6	318.9	319.1	319.3
16°	317.7	318.3	317.7	317.9	318.1	318.3
16.5°	316.7	317.3	316.7	316.9	317.1	317.3
17°	315.7	316.3	315.7	316.0	316.2	316.4
17.5°	314.7	315.3	314.7	315.0	315.2	315.3
18°	313.6	314.4	313.6	313.9	314.1	314.3
18.5°	312.5	313.3	312.5	312.9	313.1	313.2
19°	311.5	312.1	311.5	311.8	311.9	312.1
19.5°	310.3	311.0	310.3	310.7	310.8	311.0
20°	309.2	309.8	309.2	309.6	309.6	309.9
20.5°	308.1	308.7	308.1	308.4	308.5	308.6
21°	306.9	307.6	306.9	307.2	307.3	307.4



TEST NUMBER: P869801  
 CATALOG NUMBER: HLBSL609FS5-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	303.1	303.7	303.1	303.4	303.6	303.7
23°	301.8	302.4	301.8	302.1	302.3	302.4
23.5°	300.5	301.1	300.5	300.7	300.9	301.0
24°	299.2	299.8	299.2	299.4	299.5	299.7
24.5°	297.8	298.4	297.8	298.1	298.2	298.3
25°	296.3	297.0	296.3	296.6	296.8	296.9
25.5°	294.9	295.6	294.9	295.2	295.3	295.5
26°	293.4	294.0	293.4	293.7	293.9	294.1
26.5°	292.0	292.5	292.0	292.3	292.4	292.6
27°	290.5	291.0	290.5	290.8	290.9	291.1
27.5°	289.0	289.5	289.0	289.2	289.3	289.6
28°	287.4	288.0	287.4	287.6	287.8	288.0
28.5°	285.8	286.4	285.8	286.1	286.3	286.4
29°	284.2	284.8	284.2	284.5	284.6	284.8
29.5°	282.6	283.1	282.6	282.9	283.0	283.1
30°	281.0	281.5	281.0	281.2	281.3	281.5
30.5°	279.3	279.9	279.3	279.5	279.7	279.8
31°	277.6	278.2	277.6	277.8	277.9	278.1
31.5°	275.9	276.5	275.9	276.1	276.3	276.4
32°	274.1	274.7	274.1	274.4	274.5	274.7
32.5°	272.4	272.9	272.4	272.6	272.8	272.9
33°	270.6	271.2	270.6	270.9	271.0	271.1
33.5°	268.8	269.3	268.8	269.1	269.1	269.4
34°	267.0	267.5	267.0	267.2	267.3	267.5
34.5°	265.1	265.6	265.1	265.4	265.5	265.6
35°	263.2	263.8	263.2	263.5	263.6	263.7
35.5°	261.4	262.0	261.4	261.6	261.8	261.8
36°	259.5	260.0	259.5	259.7	259.8	259.9
36.5°	257.5	258.0	257.5	257.8	257.9	258.0
37°	255.6	256.1	255.6	255.8	255.9	256.1
37.5°	253.6	254.1	253.6	253.8	253.9	254.1
38°	251.7	252.1	251.7	251.8	252.0	252.0
38.5°	249.6	250.1	249.6	249.8	250.0	250.0
39°	247.5	248.1	247.5	247.8	247.9	248.1
39.5°	245.5	246.0	245.5	245.7	245.8	246.0
40°	243.4	243.9	243.4	243.6	243.8	243.9
40.5°	241.4	241.8	241.4	241.5	241.7	241.7
41°	239.3	239.7	239.3	239.5	239.5	239.7
41.5°	237.1	237.5	237.1	237.3	237.4	237.5
42°	234.9	235.4	234.9	235.1	235.3	235.3
42.5°	232.7	233.2	232.7	232.9	233.1	233.1
43°	230.6	231.1	230.6	230.7	230.9	231.0
43.5°	228.3	228.8	228.3	228.5	228.6	228.7



TEST NUMBER: P869801  
 CATALOG NUMBER: HLBSL609FS5-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	221.6	222.1	221.6	221.7	221.9	222.0
45.5°	219.3	219.8	219.3	219.5	219.5	219.6
46°	217.0	217.5	217.0	217.2	217.3	217.4
46.5°	214.7	215.1	214.7	214.9	214.9	215.1
47°	212.3	212.8	212.3	212.5	212.6	212.7
47.5°	210.0	210.4	210.0	210.1	210.2	210.3
48°	207.6	208.0	207.6	207.7	207.8	208.0
48.5°	205.2	205.7	205.2	205.4	205.5	205.5
49°	202.8	203.2	202.8	202.9	203.0	203.1
49.5°	200.3	200.7	200.3	200.5	200.6	200.7
50°	197.9	198.3	197.9	198.0	198.2	198.2
50.5°	195.4	195.8	195.4	195.5	195.7	195.8
51°	193.0	193.3	193.0	193.1	193.2	193.3
51.5°	190.5	190.9	190.5	190.6	190.7	190.8
52°	188.0	188.3	188.0	188.1	188.2	188.2
52.5°	185.4	185.8	185.4	185.6	185.7	185.7
53°	182.9	183.3	182.9	183.0	183.1	183.2
53.5°	180.3	180.7	180.3	180.4	180.5	180.6
54°	177.7	178.1	177.7	177.8	177.9	178.0
54.5°	175.1	175.5	175.1	175.2	175.3	175.4
55°	172.5	172.9	172.5	172.7	172.7	172.8
55.5°	169.9	170.3	169.9	170.0	170.1	170.2
56°	167.3	167.6	167.3	167.4	167.4	167.5
56.5°	164.6	164.9	164.6	164.7	164.8	164.9
57°	161.9	162.2	161.9	162.0	162.1	162.1
57.5°	159.1	159.5	159.1	159.2	159.3	159.3
58°	156.4	156.7	156.4	156.6	156.6	156.6
58.5°	153.7	154.0	153.7	153.8	153.9	153.9
59°	150.9	151.3	150.9	151.1	151.1	151.2
59.5°	148.2	148.5	148.2	148.3	148.4	148.4
60°	145.4	145.8	145.4	145.5	145.6	145.7
60.5°	142.7	143.0	142.7	142.8	142.8	142.9
61°	139.9	140.2	139.9	140.0	140.0	140.1
61.5°	137.1	137.4	137.1	137.2	137.2	137.3
62°	134.3	134.6	134.3	134.4	134.4	134.5
62.5°	131.5	131.8	131.5	131.6	131.6	131.6
63°	128.6	128.9	128.6	128.7	128.7	128.8
63.5°	125.8	126.1	125.8	125.8	125.9	125.9
64°	123.0	123.2	123.0	123.0	123.0	123.1
64.5°	120.1	120.4	120.1	120.1	120.2	120.2
65°	117.2	117.5	117.2	117.3	117.3	117.3
65.5°	114.4	114.6	114.4	114.4	114.4	114.4
66°	111.4	111.7	111.4	111.5	111.5	111.5



TEST NUMBER: P869801  
 CATALOG NUMBER: HLBSL609FS5-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	102.7	103.0	102.7	102.8	102.8	102.8
68°	99.8	100.0	99.8	99.8	99.8	99.8
68.5°	96.9	97.1	96.9	96.9	96.9	96.9
69°	93.9	94.2	93.9	93.9	93.9	94.0
69.5°	91.0	91.3	91.0	91.0	91.0	91.0
70°	88.1	88.3	88.1	88.1	88.0	88.1
70.5°	85.2	85.4	85.2	85.2	85.1	85.1
71°	82.3	82.5	82.3	82.2	82.2	82.1
71.5°	79.4	79.6	79.4	79.3	79.3	79.2
72°	76.4	76.6	76.4	76.4	76.3	76.3
72.5°	73.5	73.7	73.5	73.4	73.4	73.4
73°	70.6	70.8	70.6	70.5	70.5	70.4
73.5°	67.7	67.9	67.7	67.6	67.5	67.5
74°	64.8	65.0	64.8	64.7	64.6	64.6
74.5°	61.9	62.2	61.9	61.8	61.7	61.7
75°	59.0	59.3	59.0	58.9	58.8	58.8
75.5°	56.2	56.4	56.2	56.0	56.0	55.9
76°	53.3	53.6	53.3	53.2	53.1	53.0
76.5°	50.5	50.8	50.5	50.3	50.2	50.1
77°	47.8	48.1	47.8	47.5	47.4	47.3
77.5°	45.0	45.4	45.0	44.8	44.6	44.6
78°	42.3	42.6	42.3	42.1	41.9	41.8
78.5°	39.6	39.9	39.6	39.4	39.2	39.1
79°	36.9	37.3	36.9	36.7	36.5	36.5
79.5°	34.3	34.6	34.3	34.1	33.9	33.9
80°	31.7	32.1	31.7	31.5	31.3	31.3
80.5°	29.3	29.6	29.3	29.0	28.8	28.7
81°	26.8	27.2	26.8	26.5	26.3	26.2
81.5°	24.5	24.8	24.5	24.1	23.9	23.7
82°	22.2	22.5	22.2	21.8	21.5	21.3
82.5°	20.1	20.3	20.1	19.6	19.2	19.0
83°	18.0	18.2	18.0	17.5	17.0	16.8
83.5°	15.9	16.2	15.9	15.5	14.9	14.7
84°	14.0	14.3	14.0	13.5	13.0	12.7
84.5°	12.2	12.7	12.2	11.6	11.1	10.8
85°	10.6	11.2	10.6	9.9	9.3	9.1
85.5°	9.0	9.7	9.0	8.3	7.7	7.5
86°	7.6	8.2	7.6	6.9	6.3	6.1
86.5°	6.2	6.8	6.2	5.6	5.0	4.8
87°	5.2	5.8	5.2	4.5	3.8	3.6
87.5°	4.3	4.9	4.3	3.5	2.8	2.6
88°	3.5	4.1	3.5	2.7	2.0	1.7
88.5°	2.7	3.2	2.7	2.0	1.4	0.9



TEST NUMBER: P869801  
CATALOG NUMBER: HLBSL609FS5-5000K

**CANDELA DISTRIBUTION (continued):**

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

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°	306.2	306.0	305.9	305.7	306.3	305.7	305.9	306.0	306.2	306.0	305.9
22°	305.0	304.8	304.6	304.4	305.0	304.4	304.6	304.8	305.0	304.8	304.6



44°	226.5	226.4	226.3	226.1	226.5	226.1	226.3	226.4	226.5	226.4	226.3
44.5°	224.3	224.1	224.0	223.9	224.3	223.9	224.0	224.1	224.3	224.1	224.0



66.5°	108.6	108.6	108.6	108.6	108.8	108.6	108.6	108.6	108.6	108.6	108.6
67°	105.6	105.6	105.6	105.6	105.8	105.6	105.6	105.6	105.6	105.6	105.6



89°	0.5	0.8	1.5	2.0	2.4	2.0	1.5	0.8	0.5	0.8	1.5
89.5°	0.2	0.4	1.0	1.5	1.8	1.5	1.0	0.4	0.2	0.4	1.0



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21.5°	305.7	306.3	305.7	305.9	306.0	306.2
22°	304.4	305.0	304.4	304.6	304.8	305.0



44°	226.1	226.5	226.1	226.3	226.4	226.5
44.5°	223.9	224.3	223.9	224.0	224.1	224.3



66.5°	108.6	108.8	108.6	108.6	108.6	108.6
67°	105.6	105.8	105.6	105.6	105.6	105.6



89°	2.0	2.4	2.0	1.5	0.8	0.5
89.5°	1.5	1.8	1.5	1.0	0.4	0.2

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(END OF REPORT)