

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: P1212258

Luminaire Tested: SEC1HSHWMWH-5000K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212258
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC1HSHWMWH-5000K
Description: 120V SEL1500 Motion 1H WH at 5000K

Light Source:
Ballast/Driver: -

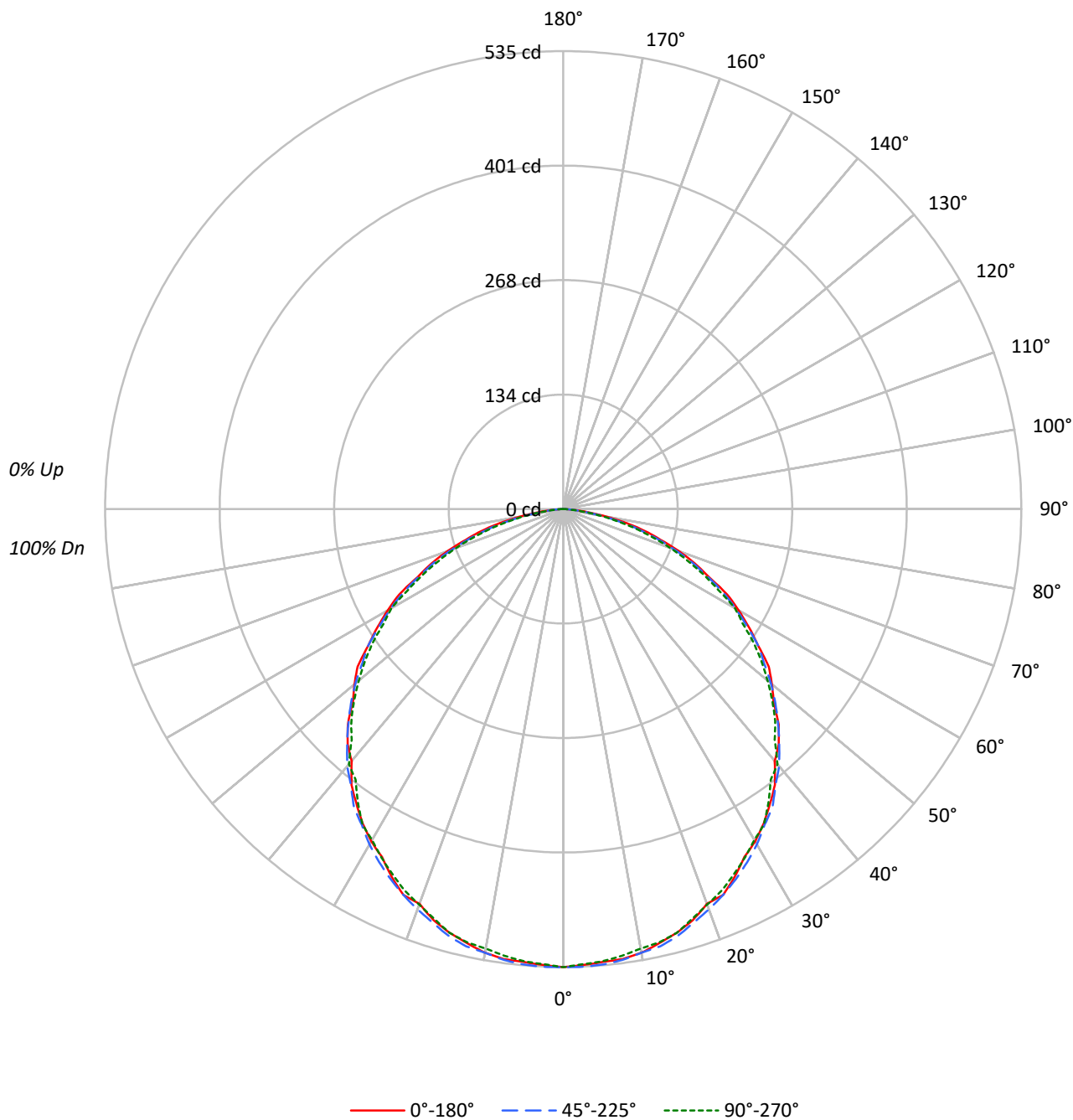
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1492.8 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 12.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: >0.28
Total Harmonic Distortion (THDi): <39
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
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				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61
4	83	71	62	55	80	70	61	55	67	60	54	65	59	54	63	57	53
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	54865	54865	54865
5°	54663	54972	54560
10°	54785	54785	54275
15°	54392	54805	54392
20°	53543	54295	53652
25°	53626	53954	53287
30°	53078	53552	52853
35°	52661	53287	52298
40°	51441	52498	52097
45°	51582	51437	50727
50°	50763	50460	49663
55°	49668	49668	48435
60°	48489	47689	47484
65°	45433	44948	43759
70°	43131	41363	39894
75°	39054	35925	34340
80°	30285	26743	25031
85°	17408	12703	11644

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 47.5°

Luminance: 51591 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.6	3.4
10°-20°	144.7	9.7
20°-30°	218.7	14.6
30°-40°	263.4	17.6
40°-50°	272.6	18.3
50°-60°	245.8	16.5
60°-70°	183.4	12.3
70°-80°	96.4	6.5
80°-90°	17.3	1.2
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°	413.9	27.7
0°-40°	677.3	45.4
0°-60°	1195.7	80.1
0°-90°	1492.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1492.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	535	535	535	535	535	
5°	531	533	534	530	530	51
15°	512	512	516	512	512	144
25°	474	471	477	476	471	218
35°	421	422	426	419	418	263
45°	356	354	355	349	350	273
55°	278	277	278	273	271	249
65°	187	189	185	182	180	188
75°	99	95	91	87	87	103
85°	15	13	11	10	10	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	535.2	535.2	535.2	535.2	535.2
2.5°	533.2	533.2	535.2	531.2	532.2
5°	531.2	533.2	534.2	530.2	530.2
7.5°	530.2	528.3	531.2	530.2	526.3
10°	526.3	524.3	526.3	523.3	521.4
12.5°	519.4	516.4	523.3	521.4	518.4
15°	512.5	512.5	516.4	511.5	512.5
17.5°	503.6	507.6	506.6	502.6	501.7
20°	490.8	494.8	497.7	495.7	491.8
22.5°	487.9	485.9	487.9	486.9	482.9
25°	474.1	471.1	477.0	476.0	471.1
27.5°	458.3	463.2	465.2	461.3	459.3
30°	448.4	450.4	452.4	448.4	446.5
32.5°	435.6	435.6	437.6	432.7	436.6
35°	420.8	421.8	425.8	418.9	417.9
37.5°	406.1	410.0	407.0	402.1	398.2
40°	384.4	392.3	392.3	388.3	389.3
42.5°	372.6	373.5	373.5	370.6	365.7
45°	355.8	353.8	354.8	348.9	349.9
47.5°	333.1	340.0	336.1	332.1	331.2
50°	318.3	319.3	316.4	311.4	311.4
52.5°	302.6	298.6	295.7	292.7	291.7
55°	277.9	276.9	277.9	273.0	271.0
57.5°	257.2	257.2	254.3	249.4	248.4
60°	236.5	235.6	232.6	227.7	231.6
62.5°	215.8	210.9	209.9	204.0	204.0
65°	187.3	189.2	185.3	182.3	180.4
67.5°	166.6	166.6	162.6	157.7	156.7
70°	143.9	141.9	138.0	134.0	133.1
72.5°	119.3	118.3	114.3	110.4	109.4
75°	98.6	94.6	90.7	86.7	86.7
77.5°	74.9	71.9	67.0	64.1	63.1
80°	51.3	49.3	45.3	43.4	42.4
82.5°	31.5	29.6	25.6	23.7	22.7
85°	14.8	12.8	10.8	9.9	9.9
87.5°	3.0	3.0	3.0	2.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	25.9	27.5	26.2	27.8	28.1	25.6	27.3	26.0	27.6	27.9
	3H	27.6	29.1	28.0	29.4	29.8	27.3	28.8	27.7	29.1	29.5
	4H	28.2	29.6	28.6	30.0	30.3	27.9	29.2	28.3	29.6	30.0
	6H	28.6	29.9	29.0	30.3	30.7	28.2	29.4	28.6	29.8	30.2
	8H	28.7	29.9	29.1	30.3	30.7	28.2	29.4	28.6	29.8	30.2
	12H	28.7	29.9	29.2	30.3	30.7	28.2	29.4	28.6	29.8	30.2
4H	2H	26.5	27.8	26.8	28.2	28.6	26.3	27.7	26.7	28.0	28.4
	3H	28.4	29.6	28.8	30.0	30.4	28.1	29.3	28.6	29.7	30.1
	4H	29.1	30.2	29.6	30.6	31.0	28.8	29.8	29.2	30.3	30.7
	6H	29.6	30.5	30.1	31.0	31.4	29.2	30.1	29.7	30.5	31.0
	8H	29.8	30.6	30.2	31.0	31.5	29.3	30.1	29.7	30.6	31.0
	12H	29.8	30.6	30.3	31.0	31.5	29.3	30.1	29.8	30.5	31.0
8H	4H	29.4	30.2	29.8	30.7	31.1	29.1	29.9	29.5	30.4	30.8
	6H	29.9	30.7	30.4	31.1	31.6	29.5	30.2	30.0	30.7	31.2
	8H	30.1	30.7	30.6	31.2	31.7	29.6	30.3	30.1	30.8	31.3
	12H	30.2	30.7	30.7	31.2	31.8	29.7	30.2	30.2	30.7	31.3
12H	4H	29.4	30.2	29.9	30.6	31.1	29.1	29.9	29.6	30.3	30.8
	6H	30.0	30.6	30.5	31.1	31.6	29.6	30.2	30.1	30.7	31.2
	8H	30.2	30.7	30.7	31.2	31.8	29.7	30.3	30.2	30.7	31.3

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