

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: P1212256

Luminaire Tested: SEC1HSHWMWH-4000K

Issue Date: 11/18/2025

Tested By:

Approved By:



Cooper Lighting Solutions laboratories have been accredited by National Voluntary Laboratory Accreditation Program (NVLAP) that it adheres to the requirements of ISO/IEC 17025:2005 and appropriate IESNA test methods. This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government. Results contained in this report are valid for luminaire sample tested, as supplied by requestor. Information related to the luminaire tested has been supplied by requestor and can affect the validity of the test results. Report shall not be reproduced except in full without approval of Cooper Lighting Solutions Lighting Laboratory. Test performed at address noted above.

Test Information

Test Method: LM-79-2019
Report Number: P1212256
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC1HSHWMWH-4000K
Description: 120V SEL1500 Motion 1H WH at 4000K

Light Source:
Ballast/Driver: -

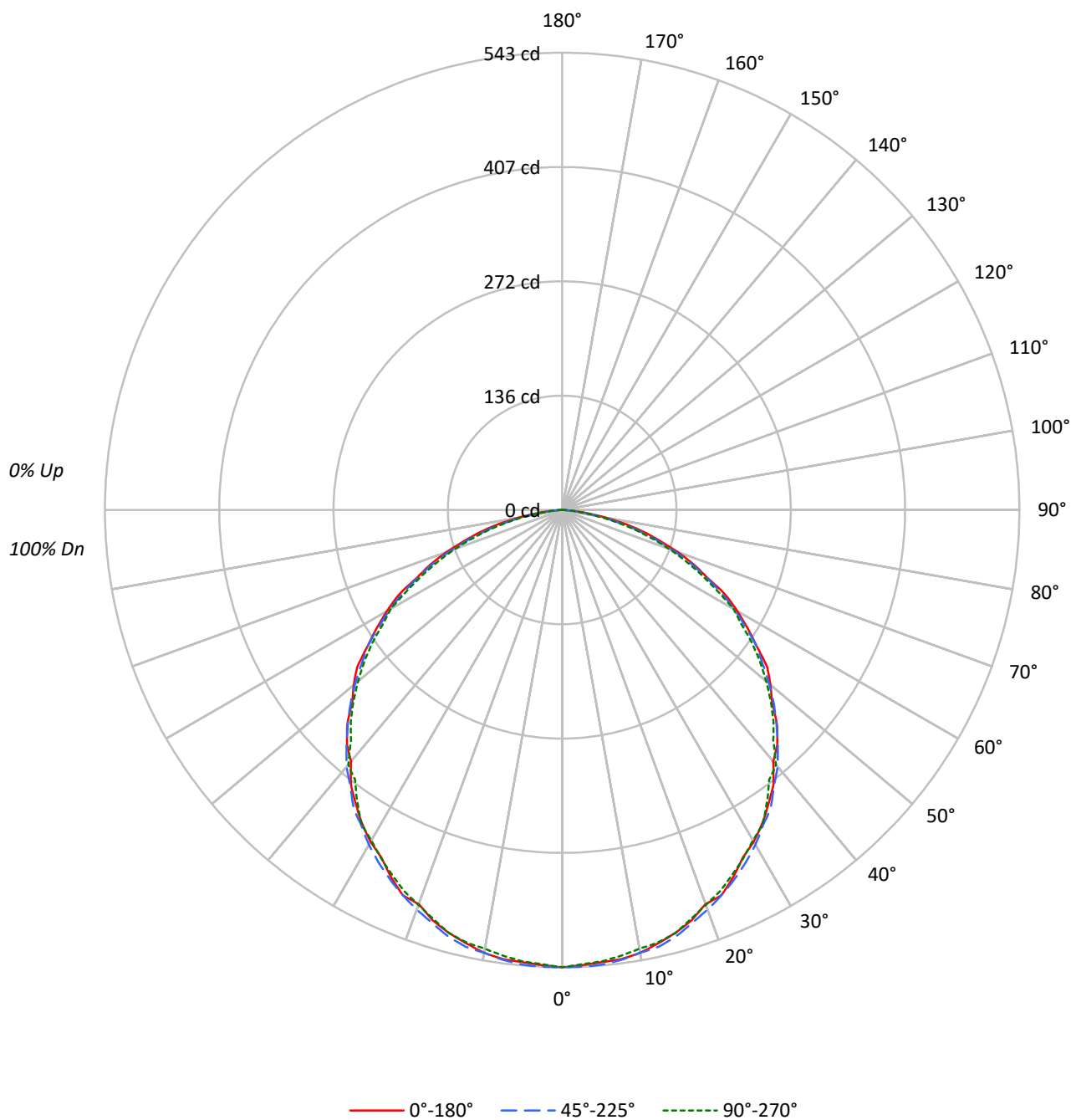
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1514.6 lumens
Efficiency: N/A
Efficacy: 124.1 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): 12.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: >0.20
Total Harmonic Distortion (THDi): <31
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1212256
CATALOG NUMBER: SEC1HSHWMWH-4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1212256

CATALOG NUMBER: SEC1HSHWMWH-4000K

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°	55665	55665	55665
5°	55466	55775	55363
10°	55587	55587	55066
15°	55187	55612	55187
20°	54328	55092	54437
25°	54406	54746	54067
30°	53859	54333	53623
35°	53437	54063	53062
40°	52191	53261	52860
45°	52336	52191	51466
50°	51513	51194	50397
55°	50401	50401	49150
60°	49206	48386	48181
65°	46088	45603	44390
70°	43760	41962	40463
75°	39608	36440	34855
80°	30698	27156	25385
85°	17643	12938	11762

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 47.5°

Luminance: 52350 cd/sqm

TEST NUMBER: P1212256
CATALOG NUMBER: SEC1HSHWMWH-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	3.4
10°-20°	146.8	9.7
20°-30°	221.9	14.6
30°-40°	267.3	17.6
40°-50°	276.6	18.3
50°-60°	249.4	16.5
60°-70°	186.0	12.3
70°-80°	97.8	6.5
80°-90°	17.6	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°	420.0	27.7
0°-40°	687.3	45.4
0°-60°	1213.2	80.1
0°-90°	1514.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1514.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	543	543	543	543	543	
5°	539	541	542	538	538	51
15°	520	520	524	519	520	146
25°	481	478	484	483	478	221
35°	427	428	432	425	424	267
45°	361	359	360	354	355	277
55°	282	281	282	277	275	253
65°	190	192	188	185	183	191
75°	100	96	92	88	88	104
85°	15	13	11	10	10	21
90°	0	0	0	0	0	

TEST NUMBER: P1212256

CATALOG NUMBER: SEC1HSHWMWH-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	543	543	543	543	543
2.5°	541	541	543	539	540
5°	539	541	542	538	538
7.5°	538	536	539	538	534
10°	534	532	534	531	529
12.5°	527	524	531	529	526
15°	520	520	524	519	520
17.5°	511	515	514	510	509
20°	498	502	505	503	499
22.5°	495	493	495	494	490
25°	481	478	484	483	478
27.5°	465	470	472	468	466
30°	455	457	459	455	453
32.5°	442	442	444	439	443
35°	427	428	432	425	424
37.5°	412	416	413	408	404
40°	390	398	398	394	395
42.5°	378	379	379	376	371
45°	361	359	360	354	355
47.5°	338	345	341	337	336
50°	323	324	321	316	316
52.5°	307	303	300	297	296
55°	282	281	282	277	275
57.5°	261	261	258	253	252
60°	240	239	236	231	235
62.5°	219	214	213	207	207
65°	190	192	188	185	183
67.5°	169	169	165	160	159
70°	146	144	140	136	135
72.5°	121	120	116	112	111
75°	100	96	92	88	88
77.5°	76	73	68	65	64
80°	52	50	46	44	43
82.5°	32	30	26	24	23
85°	15	13	11	10	10
87.5°	3	3	3	2	3
90°	0	0	0	0	0

TEST NUMBER: P1212256
CATALOG NUMBER: SEC1HSHWMWH-4000K

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	26.3	27.8	28.2	25.7	27.3	26.0	27.6	27.9
	3H	27.7	29.1	28.0	29.5	29.8	27.4	28.8	27.7	29.2	29.5
	4H	28.3	29.7	28.7	30.0	30.4	27.9	29.3	28.3	29.6	30.0
	6H	28.7	30.0	29.1	30.3	30.7	28.2	29.5	28.6	29.9	30.3
	8H	28.8	30.0	29.2	30.4	30.8	28.3	29.5	28.7	29.9	30.3
	12H	28.8	30.0	29.2	30.3	30.8	28.3	29.4	28.7	29.8	30.3
4H	2H	26.5	27.9	26.9	28.2	28.6	26.3	27.7	26.7	28.1	28.4
	3H	28.5	29.6	28.9	30.0	30.4	28.2	29.4	28.6	29.8	30.2
	4H	29.2	30.2	29.6	30.7	31.1	28.8	29.9	29.3	30.3	30.7
	6H	29.7	30.6	30.1	31.0	31.5	29.2	30.2	29.7	30.6	31.1
	8H	29.8	30.7	30.3	31.1	31.6	29.3	30.2	29.8	30.6	31.1
	12H	29.9	30.6	30.3	31.1	31.6	29.3	30.1	29.8	30.6	31.0
8H	4H	29.4	30.3	29.9	30.7	31.2	29.1	30.0	29.6	30.4	30.9
	6H	30.0	30.7	30.5	31.2	31.7	29.6	30.3	30.1	30.8	31.3
	8H	30.2	30.8	30.7	31.3	31.8	29.7	30.3	30.2	30.8	31.3
	12H	30.2	30.8	30.7	31.3	31.8	29.7	30.3	30.2	30.8	31.3
12H	4H	29.4	30.2	29.9	30.7	31.1	29.1	29.9	29.6	30.4	30.8
	6H	30.0	30.7	30.5	31.1	31.7	29.6	30.3	30.1	30.7	31.3
	8H	30.2	30.8	30.7	31.2	31.8	29.7	30.3	30.3	30.8	31.4

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



(END OF REPORT)