

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: P1212252

Luminaire Tested: SEC1HSHWMWH-2700K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212252
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC1HSHWMWH-2700K
Description: 120V SEL1500 Motion 1H WH at 2700K

Light Source:
Ballast/Driver: -

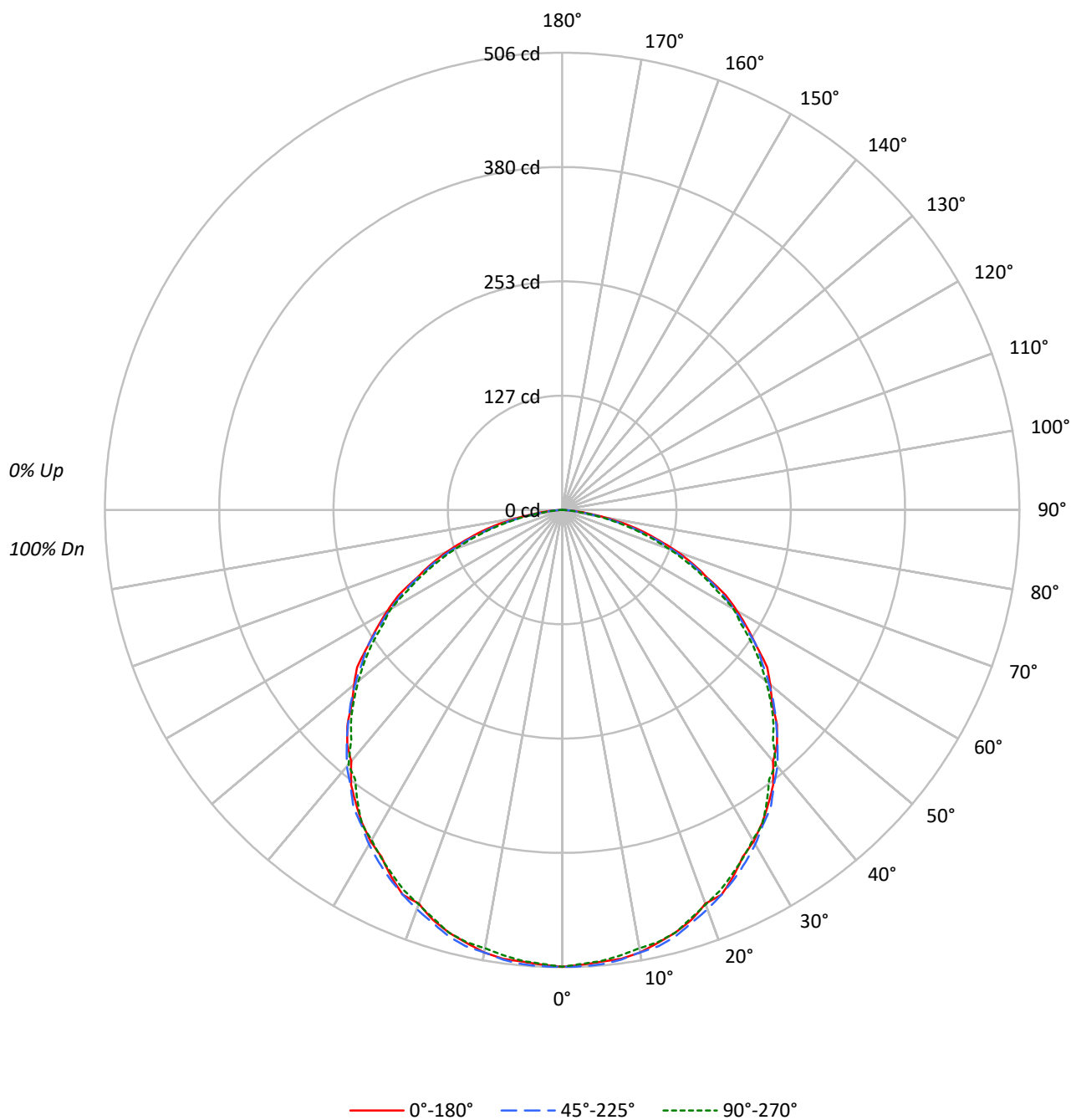
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1410.0 lumens
Efficiency: N/A
Efficacy: 113.7 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: >0.9
Total Harmonic Distortion (THDi): <20
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°	51821	51821	51821
5°	51638	51926	51545
10°	51746	51746	51267
15°	51377	51770	51377
20°	50575	51284	50673
25°	50651	50968	50334
30°	50143	50581	49918
35°	49745	50334	49395
40°	48591	49581	49206
45°	48726	48581	47915
50°	47956	47653	46920
55°	46916	46916	45754
60°	45803	45044	44860
65°	42910	42449	41334
70°	40733	39055	37676
75°	36875	33905	32439
80°	28573	25267	23614
85°	16467	11997	10939

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 47.5°

Luminance: 48739 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	3.4
10°-20°	136.7	9.7
20°-30°	206.5	14.6
30°-40°	248.8	17.6
40°-50°	257.5	18.3
50°-60°	232.2	16.5
60°-70°	173.2	12.3
70°-80°	91.0	6.5
80°-90°	16.4	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°	391.0	27.7
0°-40°	639.8	45.4
0°-60°	1129.5	80.1
0°-90°	1410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	506	506	506	506	506	
5°	502	504	505	501	501	48
15°	484	484	488	483	484	136
25°	448	445	451	450	445	206
35°	398	398	402	396	395	248
45°	336	334	335	330	330	258
55°	262	262	262	258	256	236
65°	177	179	175	172	170	178
75°	93	89	86	82	82	97
85°	14	12	10	9	9	19
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	505.5	505.5	505.5	505.5	505.5
2.5°	503.6	503.6	505.5	501.8	502.7
5°	501.8	503.6	504.6	500.9	500.9
7.5°	500.9	499.0	501.8	500.9	497.1
10°	497.1	495.3	497.1	494.3	492.5
12.5°	490.6	487.8	494.3	492.5	489.7
15°	484.1	484.1	487.8	483.2	484.1
17.5°	475.7	479.4	478.5	474.8	473.9
20°	463.6	467.3	470.1	468.3	464.5
22.5°	460.8	459.0	460.8	459.9	456.2
25°	447.8	445.0	450.6	449.7	445.0
27.5°	432.9	437.5	439.4	435.7	433.8
30°	423.6	425.4	427.3	423.6	421.7
32.5°	411.5	411.5	413.3	408.7	412.4
35°	397.5	398.4	402.2	395.7	394.7
37.5°	383.6	387.3	384.5	379.8	376.1
40°	363.1	370.5	370.5	366.8	367.7
42.5°	351.9	352.8	352.8	350.0	345.4
45°	336.1	334.2	335.1	329.6	330.5
47.5°	314.7	321.2	317.5	313.7	312.8
50°	300.7	301.6	298.8	294.2	294.2
52.5°	285.8	282.1	279.3	276.5	275.6
55°	262.5	261.6	262.5	257.9	256.0
57.5°	243.0	243.0	240.2	235.5	234.6
60°	223.4	222.5	219.7	215.1	218.8
62.5°	203.9	199.2	198.3	192.7	192.7
65°	176.9	178.7	175.0	172.2	170.4
67.5°	157.3	157.3	153.6	149.0	148.0
70°	135.9	134.1	130.3	126.6	125.7
72.5°	112.6	111.7	108.0	104.3	103.3
75°	93.1	89.4	85.6	81.9	81.9
77.5°	70.8	68.0	63.3	60.5	59.6
80°	48.4	46.5	42.8	41.0	40.0
82.5°	29.8	27.9	24.2	22.3	21.4
85°	14.0	12.1	10.2	9.3	9.3
87.5°	2.8	2.8	2.8	1.9	2.8
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	25.7	27.3	26.0	27.6	27.9	25.4	27.1	25.8	27.4	27.7
	3H	27.4	28.9	27.8	29.2	29.6	27.1	28.6	27.5	28.9	29.3
	4H	28.0	29.4	28.4	29.8	30.1	27.7	29.0	28.1	29.4	29.8
	6H	28.4	29.7	28.8	30.1	30.5	28.0	29.2	28.4	29.6	30.0
	8H	28.5	29.7	28.9	30.1	30.5	28.0	29.2	28.4	29.6	30.0
	12H	28.5	29.7	29.0	30.1	30.5	28.0	29.2	28.4	29.6	30.0
4H	2H	26.3	27.6	26.7	28.0	28.4	26.1	27.5	26.5	27.8	28.2
	3H	28.2	29.4	28.6	29.8	30.2	27.9	29.1	28.4	29.5	29.9
	4H	28.9	30.0	29.4	30.4	30.8	28.6	29.6	29.0	30.1	30.5
	6H	29.4	30.3	29.9	30.8	31.2	29.0	29.9	29.5	30.4	30.8
	8H	29.6	30.4	30.0	30.8	31.3	29.1	29.9	29.5	30.4	30.8
	12H	29.6	30.4	30.1	30.8	31.3	29.1	29.9	29.6	30.3	30.8
8H	4H	29.2	30.0	29.6	30.5	30.9	28.9	29.7	29.3	30.2	30.6
	6H	29.8	30.5	30.2	30.9	31.4	29.3	30.0	29.8	30.5	31.0
	8H	29.9	30.5	30.4	31.0	31.5	29.4	30.1	30.0	30.6	31.1
	12H	30.0	30.5	30.5	31.0	31.6	29.5	30.0	30.0	30.5	31.1
12H	4H	29.2	30.0	29.7	30.4	30.9	28.9	29.7	29.4	30.1	30.6
	6H	29.8	30.4	30.3	30.9	31.4	29.4	30.0	29.9	30.5	31.0
	8H	30.0	30.5	30.5	31.0	31.6	29.5	30.1	30.0	30.5	31.1

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