

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: P1219830

Luminaire Tested: SEC2HSSOLMWH-3000K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219830
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSSOLMWH-3000K
Description: Solar SEL 1500 5CCT Motion 2H WH-3000K

Light Source:
Ballast/Driver: -

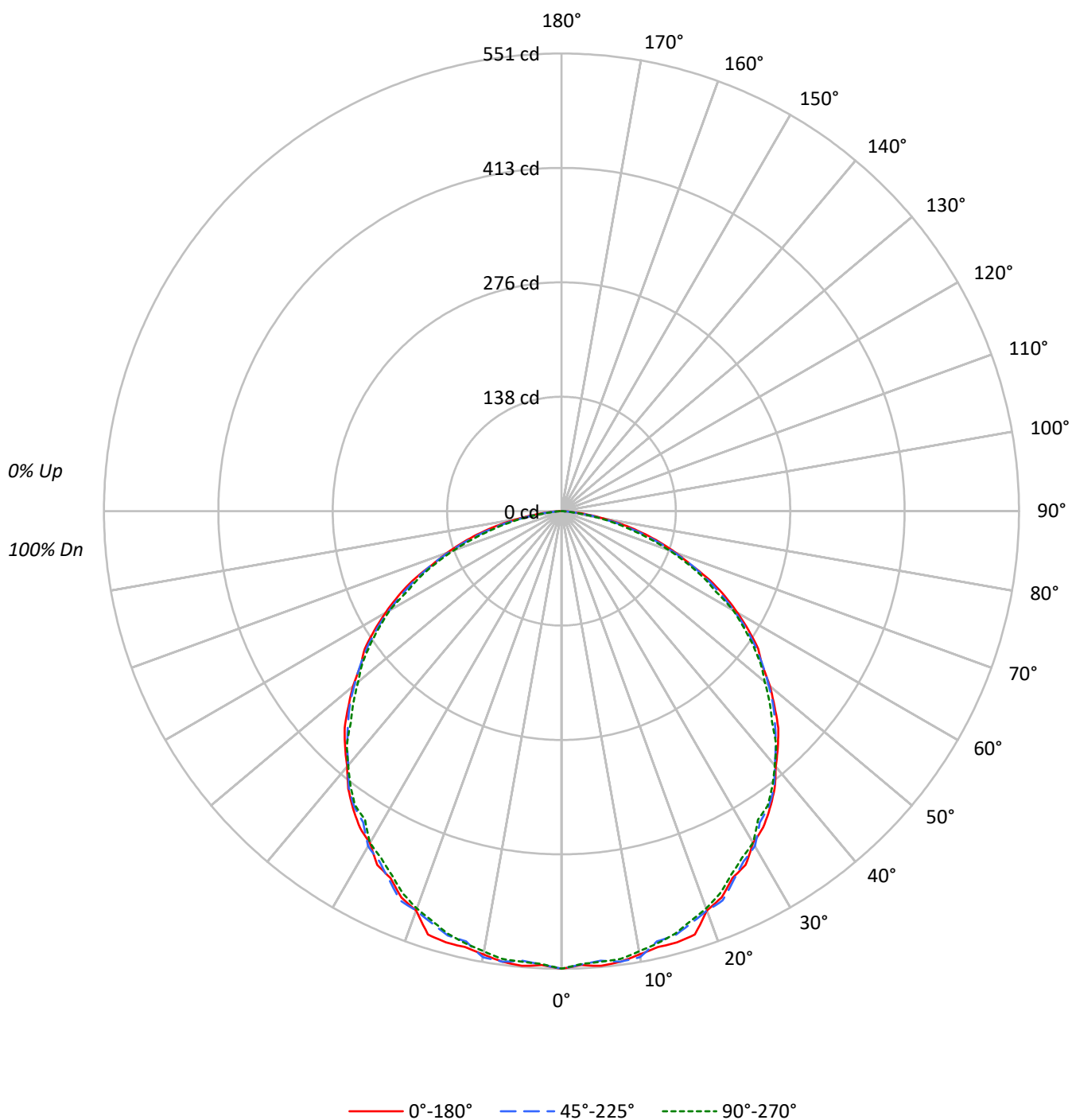
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1535.6 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.75' x H: 0')
CIE Type: Direct

Input Watts (W): 12
Input Voltage (V): 120
Input Current (A_{in}): 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			0
RW	70	50	30	10	70	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	97	106	102	98	95	98	95	92		94	91	89		90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	63		70	65	62	59
4	83	71	62	55	81	70	61	55	67	60	54		65	59	54		63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36		48	41	36		46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27		37	31	26		37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31620	31620	31620
5°	31672	31309	31378
10°	31595	31781	31373
15°	31951	31428	31315
20°	31267	31267	31108
25°	30860	31057	30620
30°	30579	30877	30579
35°	30654	30479	30345
40°	30089	29946	29946
45°	29982	29528	29113
50°	29267	29097	28535
55°	28955	28575	28195
60°	28072	27567	27429
65°	26882	26203	25592
70°	24539	24019	23163
75°	22225	20828	19430
80°	17092	15207	14183
85°	9551	6653	4545

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 29982 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	3.4
10°-20°	148.9	9.7
20°-30°	225.2	14.7
30°-40°	270.7	17.6
40°-50°	280.3	18.3
50°-60°	253.0	16.5
60°-70°	189.4	12.3
70°-80°	99.0	6.4
80°-90°	17.0	1.1
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°	426.2	27.8
0°-40°	696.9	45.4
0°-60°	1230.1	80.1
0°-90°	1535.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1535.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	551	551	551	551	551	
5°	550	546	543	544	544	52
15°	538	526	529	517	527	151
25°	487	491	490	482	483	226
35°	437	434	435	429	433	273
45°	369	366	364	360	359	283
55°	289	287	286	279	282	257
65°	198	194	193	187	188	194
75°	100	96	94	89	88	105
85°	14	13	10	8	7	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	550.8	550.8	550.8	550.8	550.8
2.5°	547.1	551.5	546.4	545.2	545.8
5°	549.6	545.8	543.3	543.9	544.5
7.5°	547.1	543.9	547.1	541.4	543.9
10°	542.0	540.1	545.2	540.8	538.2
12.5°	537.6	534.5	530.7	531.3	533.2
15°	537.6	525.6	528.8	516.8	526.9
17.5°	534.5	518.7	520.0	524.4	517.4
20°	511.8	509.9	511.8	510.5	509.2
22.5°	503.6	502.9	507.4	496.0	498.5
25°	487.2	491.0	490.3	481.5	483.4
27.5°	480.3	477.1	475.2	477.1	470.8
30°	461.3	464.5	465.8	462.6	461.3
32.5°	451.9	450.0	444.3	444.3	440.5
35°	437.4	434.2	434.9	428.6	433.0
37.5°	421.6	417.9	420.4	410.3	417.2
40°	401.5	402.7	399.6	399.6	399.6
42.5°	385.7	384.5	381.9	376.3	382.6
45°	369.3	365.5	363.7	360.5	358.6
47.5°	347.9	346.6	346.0	339.1	339.7
50°	327.7	326.5	325.8	322.7	319.5
52.5°	304.4	303.8	305.7	301.3	302.5
55°	289.3	286.8	285.5	279.2	281.7
57.5°	267.2	260.9	263.4	257.8	259.7
60°	244.5	242.0	240.1	233.8	238.9
62.5°	221.8	217.4	216.2	211.8	209.2
65°	197.9	194.1	192.9	187.2	188.4
67.5°	168.3	171.4	169.5	163.9	163.2
70°	146.2	146.2	143.1	138.7	138.0
72.5°	123.5	121.6	119.1	114.7	112.8
75°	100.2	96.4	93.9	88.9	87.6
77.5°	76.3	73.1	70.0	65.5	64.9
80°	51.7	49.8	46.0	42.2	42.9
82.5°	32.1	30.3	26.5	23.3	23.3
85°	14.5	13.2	10.1	8.2	6.9
87.5°	3.2	2.5	1.9	1.3	1.3
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	23.9	25.5	24.2	25.8	26.1	23.8	25.4	24.1	25.7	26.0
	3H	25.6	27.1	26.0	27.4	27.8	25.4	26.9	25.8	27.2	27.6
	4H	26.3	27.6	26.7	28.0	28.4	26.0	27.4	26.4	27.7	28.1
	6H	26.6	27.9	27.1	28.3	28.7	26.3	27.6	26.7	27.9	28.3
	8H	26.7	28.0	27.2	28.3	28.7	26.3	27.5	26.7	27.9	28.3
	12H	26.8	27.9	27.2	28.3	28.7	26.3	27.5	26.7	27.9	28.3
4H	2H	24.5	25.9	24.9	26.2	26.6	24.4	25.8	24.8	26.1	26.5
	3H	26.5	27.6	26.9	28.0	28.4	26.3	27.4	26.7	27.8	28.2
	4H	27.2	28.2	27.6	28.7	29.1	26.9	28.0	27.4	28.4	28.8
	6H	27.7	28.6	28.1	29.0	29.5	27.3	28.2	27.8	28.7	29.1
	8H	27.8	28.6	28.2	29.1	29.5	27.4	28.2	27.8	28.7	29.1
	12H	27.8	28.6	28.3	29.1	29.5	27.4	28.1	27.9	28.6	29.1
8H	4H	27.4	28.3	27.9	28.7	29.2	27.2	28.0	27.7	28.5	29.0
	6H	28.0	28.7	28.5	29.2	29.7	27.6	28.3	28.1	28.8	29.3
	8H	28.1	28.8	28.7	29.3	29.8	27.7	28.4	28.2	28.9	29.4
	12H	28.2	28.8	28.7	29.3	29.8	27.8	28.3	28.3	28.8	29.4
12H	4H	27.4	28.2	27.9	28.7	29.2	27.2	28.0	27.7	28.4	28.9
	6H	28.0	28.7	28.5	29.1	29.6	27.7	28.3	28.2	28.8	29.3
	8H	28.2	28.7	28.7	29.2	29.8	27.8	28.3	28.3	28.8	29.4

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