

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: P1219822

Luminaire Tested: SEC1HSSOLMWH-5000K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219822
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC1HSSOLMWH-5000K
Description: Solar SEL 1000 5CCT Motion 1H WH-5000K

Light Source:
Ballast/Driver: -

Summary

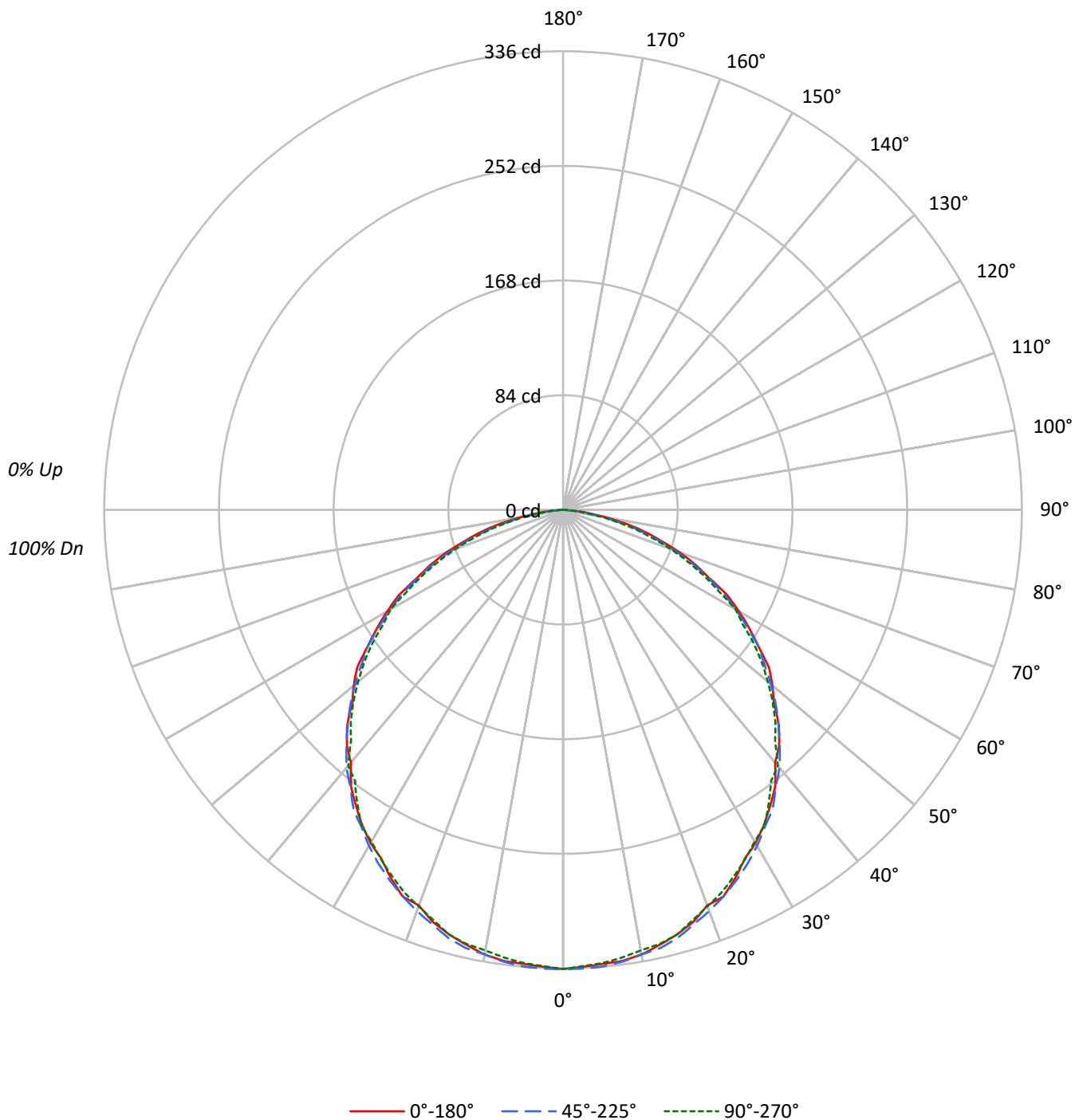
Lumens per Lamp: N/A
Luminaire Lumens: 938.3 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: >0.18
Total Harmonic Distortion (THDi): <29
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	96	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	61	59
4	83	71	62	55	80	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°	34486	34486	34486
5°	34360	34556	34298
10°	34435	34435	34112
15°	34184	34450	34184
20°	33655	34124	33721
25°	33707	33911	33492
30°	33369	33653	33215
35°	33101	33489	32876
40°	32331	33000	32746
45°	32417	32330	31880
50°	31912	31721	31227
55°	31224	31224	30455
60°	30488	29975	29852
65°	28550	28259	27507
70°	27096	25987	25057
75°	24517	22577	21586
80°	19009	16825	15703
85°	10939	7998	7293

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 47.5°

Luminance: 32427 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.8	3.4
10°-20°	90.9	9.7
20°-30°	137.4	14.6
30°-40°	165.6	17.6
40°-50°	171.4	18.3
50°-60°	154.5	16.5
60°-70°	115.3	12.3
70°-80°	60.6	6.5
80°-90°	10.9	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°	260.2	27.7
0°-40°	425.7	45.4
0°-60°	751.6	80.1
0°-90°	938.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	938.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	336	336	336	336	336	
5°	334	335	336	333	333	32
15°	322	322	325	322	322	91
25°	298	296	300	299	296	137
35°	264	265	268	263	263	165
45°	224	222	223	219	220	171
55°	175	174	175	172	170	157
65°	118	119	116	115	113	118
75°	62	60	57	54	54	65
85°	9	8	7	6	6	13
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	336.4	336.4	336.4	336.4	336.4
2.5°	335.1	335.1	336.4	333.9	334.5
5°	333.9	335.1	335.8	333.3	333.3
7.5°	333.3	332.0	333.9	333.3	330.8
10°	330.8	329.6	330.8	328.9	327.7
12.5°	326.5	324.6	328.9	327.7	325.9
15°	322.1	322.1	324.6	321.5	322.1
17.5°	316.6	319.0	318.4	315.9	315.3
20°	308.5	311.0	312.8	311.6	309.1
22.5°	306.6	305.4	306.6	306.0	303.5
25°	298.0	296.1	299.8	299.2	296.1
27.5°	288.1	291.2	292.4	289.9	288.7
30°	281.9	283.1	284.3	281.9	280.6
32.5°	273.8	273.8	275.1	272.0	274.4
35°	264.5	265.1	267.6	263.3	262.7
37.5°	255.2	257.7	255.8	252.8	250.3
40°	241.6	246.6	246.6	244.1	244.7
42.5°	234.2	234.8	234.8	232.9	229.8
45°	223.6	222.4	223.0	219.3	219.9
47.5°	209.4	213.7	211.2	208.8	208.1
50°	200.1	200.7	198.9	195.8	195.8
52.5°	190.2	187.7	185.8	184.0	183.4
55°	174.7	174.1	174.7	171.6	170.4
57.5°	161.7	161.7	159.8	156.7	156.1
60°	148.7	148.1	146.2	143.1	145.6
62.5°	135.7	132.6	132.0	128.2	128.2
65°	117.7	118.9	116.5	114.6	113.4
67.5°	104.7	104.7	102.2	99.1	98.5
70°	90.4	89.2	86.7	84.3	83.6
72.5°	75.0	74.3	71.9	69.4	68.8
75°	61.9	59.5	57.0	54.5	54.5
77.5°	47.1	45.2	42.1	40.3	39.6
80°	32.2	31.0	28.5	27.3	26.6
82.5°	19.8	18.6	16.1	14.9	14.2
85°	9.3	8.1	6.8	6.2	6.2
87.5°	1.9	1.9	1.9	1.2	1.9
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	24.2	25.9	24.6	26.2	26.5	24.0	25.6	24.4	26.0	26.3
	3H	26.0	27.5	26.4	27.8	28.2	25.7	27.2	26.1	27.5	27.8
	4H	26.6	28.0	27.0	28.3	28.7	26.2	27.6	26.6	28.0	28.3
	6H	27.0	28.3	27.4	28.7	29.0	26.5	27.8	27.0	28.2	28.6
	8H	27.1	28.3	27.5	28.7	29.1	26.6	27.8	27.0	28.2	28.6
	12H	27.1	28.3	27.6	28.7	29.1	26.6	27.8	27.0	28.2	28.6
4H	2H	24.8	26.2	25.2	26.6	26.9	24.7	26.0	25.1	26.4	26.8
	3H	26.8	28.0	27.2	28.4	28.8	26.5	27.7	26.9	28.1	28.5
	4H	27.5	28.6	28.0	29.0	29.4	27.2	28.2	27.6	28.6	29.1
	6H	28.0	28.9	28.5	29.4	29.8	27.6	28.5	28.0	28.9	29.4
	8H	28.1	29.0	28.6	29.4	29.9	27.7	28.5	28.1	28.9	29.4
	12H	28.2	29.0	28.7	29.4	29.9	27.7	28.4	28.2	28.9	29.4
8H	4H	27.8	28.6	28.2	29.1	29.5	27.5	28.3	27.9	28.7	29.2
	6H	28.3	29.0	28.8	29.5	30.0	27.9	28.6	28.4	29.1	29.6
	8H	28.5	29.1	29.0	29.6	30.1	28.0	28.7	28.5	29.2	29.6
	12H	28.6	29.1	29.1	29.6	30.2	28.1	28.6	28.6	29.1	29.7
12H	4H	27.8	28.5	28.3	29.0	29.5	27.5	28.2	28.0	28.7	29.2
	6H	28.4	29.0	28.9	29.5	30.0	28.0	28.6	28.5	29.1	29.6
	8H	28.5	29.1	29.0	29.6	30.1	28.1	28.6	28.6	29.1	29.7

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