

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: P1219832

Luminaire Tested: SEC2HSSOLMWH-5000K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219832
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSSOLMWH-5000K
Description: Solar SEL 1500 5CCT Motion 2H WH-5000K

Light Source:
Ballast/Driver: -

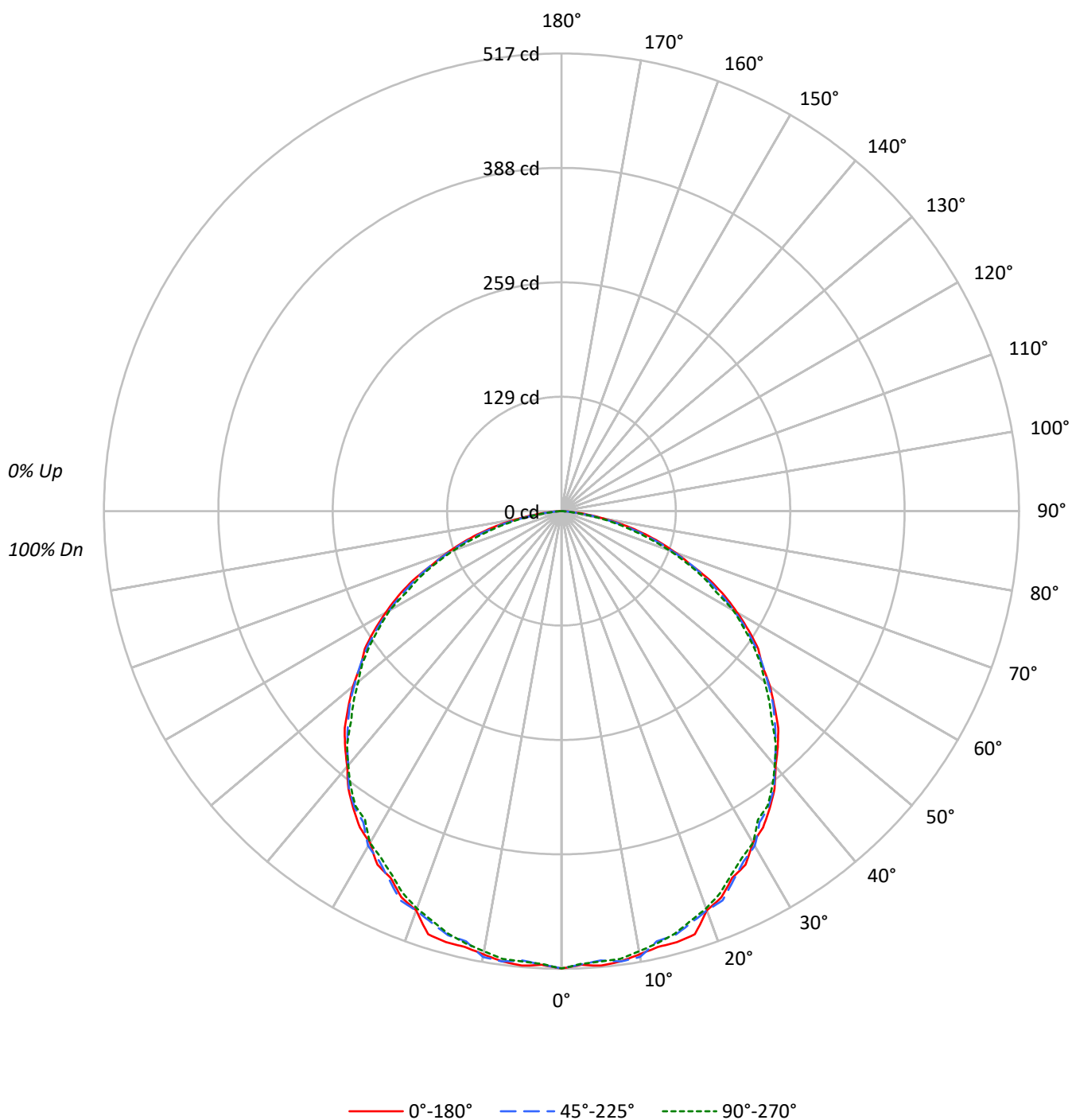
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1440.2 lumens
Efficiency: N/A
Efficacy: 120.0 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: >0.19
Total Harmonic Distortion (THDi): <30
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				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°	29657	29657	29657
5°	29701	29361	29430
10°	29630	29805	29426
15°	29966	29473	29372
20°	29324	29324	29177
25°	28941	29131	28719
30°	28683	28955	28683
35°	28748	28586	28460
40°	28215	28088	28088
45°	28123	27693	27303
50°	27454	27293	26766
55°	27154	26803	26443
60°	26327	25856	25719
65°	25212	24573	24003
70°	23012	22525	21720
75°	20850	19541	18232
80°	16034	14249	13290
85°	8958	6257	4281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28123 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	3.4
10°-20°	139.7	9.7
20°-30°	211.3	14.7
30°-40°	253.9	17.6
40°-50°	262.8	18.3
50°-60°	237.3	16.5
60°-70°	177.6	12.3
70°-80°	92.9	6.4
80°-90°	16.0	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°	399.7	27.8
0°-40°	653.6	45.4
0°-60°	1153.7	80.1
0°-90°	1440.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1440.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	517	517	517	517	517	
5°	515	512	510	510	511	49
15°	504	493	496	485	494	142
25°	457	460	460	452	453	212
35°	410	407	408	402	406	256
45°	346	343	341	338	336	266
55°	271	269	268	262	264	241
65°	186	182	181	176	177	182
75°	94	90	88	83	82	99
85°	14	12	10	8	6	19
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	516.6	516.6	516.6	516.6	516.6
2.5°	513.1	517.2	512.5	511.3	511.9
5°	515.4	511.9	509.5	510.1	510.7
7.5°	513.1	510.1	513.1	507.7	510.1
10°	508.3	506.6	511.3	507.2	504.8
12.5°	504.2	501.2	497.7	498.3	500.1
15°	504.2	493.0	495.9	484.7	494.2
17.5°	501.2	486.5	487.6	491.8	485.3
20°	480.0	478.2	480.0	478.8	477.6
22.5°	472.3	471.7	475.8	465.2	467.6
25°	456.9	460.5	459.9	451.6	453.4
27.5°	450.4	447.5	445.7	447.5	441.5
30°	432.7	435.6	436.8	433.9	432.7
32.5°	423.8	422.0	416.7	416.7	413.2
35°	410.2	407.3	407.9	401.9	406.1
37.5°	395.4	391.9	394.3	384.8	391.3
40°	376.5	377.7	374.8	374.8	374.8
42.5°	361.7	360.6	358.2	352.9	358.8
45°	346.4	342.8	341.1	338.1	336.3
47.5°	326.3	325.1	324.5	318.0	318.6
50°	307.4	306.2	305.6	302.6	299.7
52.5°	285.5	284.9	286.7	282.5	283.7
55°	271.3	268.9	267.8	261.9	264.2
57.5°	250.6	244.7	247.1	241.8	243.5
60°	229.3	227.0	225.2	219.3	224.0
62.5°	208.1	203.9	202.7	198.6	196.2
65°	185.6	182.1	180.9	175.6	176.7
67.5°	157.8	160.8	159.0	153.7	153.1
70°	137.1	137.1	134.2	130.0	129.4
72.5°	115.9	114.1	111.7	107.6	105.8
75°	94.0	90.4	88.1	83.3	82.2
77.5°	71.5	68.6	65.6	61.5	60.9
80°	48.5	46.7	43.1	39.6	40.2
82.5°	30.1	28.4	24.8	21.9	21.9
85°	13.6	12.4	9.5	7.7	6.5
87.5°	3.0	2.4	1.8	1.2	1.2
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	23.7	25.3	24.0	25.6	25.9	23.5	25.2	23.9	25.5	25.8
	3H	25.4	26.9	25.8	27.2	27.6	25.2	26.7	25.6	27.0	27.4
	4H	26.0	27.4	26.4	27.8	28.1	25.8	27.1	26.2	27.5	27.9
	6H	26.4	27.7	26.8	28.1	28.5	26.1	27.3	26.5	27.7	28.1
	8H	26.5	27.7	26.9	28.1	28.5	26.1	27.3	26.5	27.7	28.1
	12H	26.5	27.7	27.0	28.1	28.5	26.1	27.3	26.5	27.7	28.1
4H	2H	24.3	25.7	24.7	26.0	26.4	24.2	25.6	24.6	25.9	26.3
	3H	26.2	27.4	26.7	27.8	28.2	26.1	27.2	26.5	27.6	28.0
	4H	27.0	28.0	27.4	28.4	28.9	26.7	27.7	27.1	28.2	28.6
	6H	27.5	28.4	27.9	28.8	29.3	27.1	28.0	27.5	28.4	28.9
	8H	27.6	28.4	28.0	28.9	29.3	27.1	28.0	27.6	28.4	28.9
	12H	27.6	28.4	28.1	28.9	29.3	27.2	27.9	27.6	28.4	28.9
8H	4H	27.2	28.1	27.7	28.5	29.0	27.0	27.8	27.4	28.3	28.7
	6H	27.8	28.5	28.3	29.0	29.4	27.4	28.1	27.9	28.6	29.1
	8H	27.9	28.6	28.4	29.1	29.5	27.5	28.1	28.0	28.6	29.1
	12H	28.0	28.6	28.5	29.1	29.6	27.5	28.1	28.0	28.6	29.1
12H	4H	27.2	28.0	27.7	28.5	28.9	27.0	27.7	27.5	28.2	28.7
	6H	27.8	28.4	28.3	28.9	29.4	27.4	28.1	28.0	28.5	29.1
	8H	28.0	28.5	28.5	29.0	29.6	27.6	28.1	28.1	28.6	29.2

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