

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: P1219833

Luminaire Tested: SEC2HSSOLMWH-6500K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219833
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSSOLMWH-6500K
Description: Solar SEL 1500 5CCT Motion 2H WH-6500K

Light Source:
Ballast/Driver: -

Summary

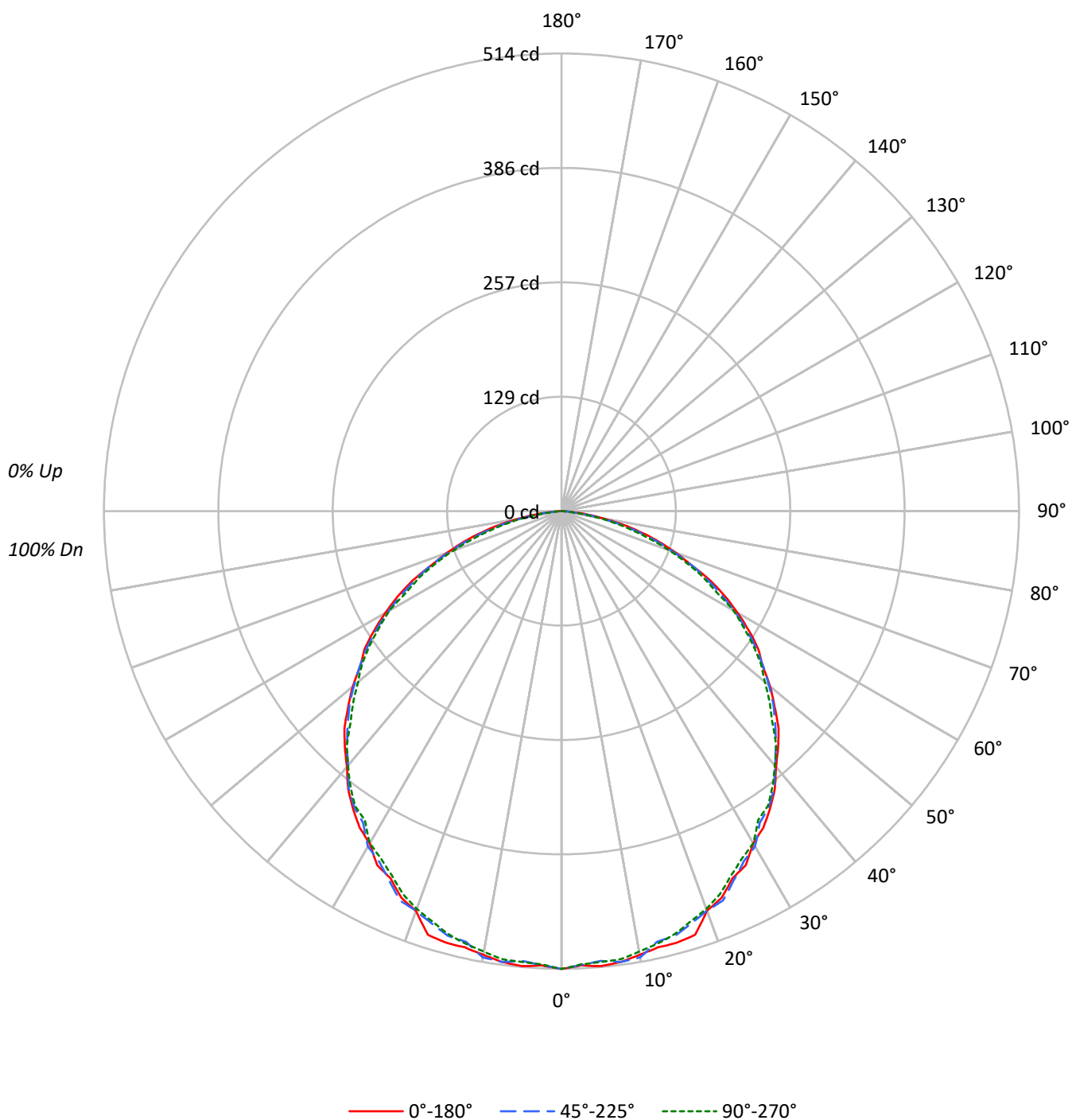
Lumens per Lamp: N/A
Luminaire Lumens: 1433.4 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.75' x H: 0')
CIE Type: Direct

Input Watts (W): 12
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: >0.25
Total Harmonic Distortion (THDi): <36
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	97	106	102	98	95	98	95	92		94	91	89		90
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	63		70
4	83	71	62	55	81	70	61	55	67	60	54		65	59	54		63
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	41	54	47	41		53	46	41		51
7	65	52	43	37	63	51	42	37	49	42	36		48	41	36		46
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		43
9	57	43	35	29	55	43	35	29	41	34	29		40	34	29		39
10	53	40	32	27	52	39	32	27	38	31	27		37	31	26		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29519	29519	29519
5°	29563	29223	29292
10°	29496	29665	29286
15°	29823	29336	29229
20°	29184	29184	29043
25°	28808	28992	28580
30°	28550	28822	28550
35°	28614	28446	28327
40°	28088	27953	27953
45°	27993	27563	27181
50°	27320	27168	26641
55°	27023	26673	26323
60°	26212	25742	25604
65°	25089	24451	23894
70°	22911	22425	21619
75°	20739	19452	18144
80°	15935	14183	13224
85°	8892	6192	4281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 27993 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	3.4
10°-20°	139.0	9.7
20°-30°	210.3	14.7
30°-40°	252.7	17.6
40°-50°	261.6	18.3
50°-60°	236.2	16.5
60°-70°	176.8	12.3
70°-80°	92.5	6.4
80°-90°	15.9	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°	397.8	27.8
0°-40°	650.5	45.4
0°-60°	1148.3	80.1
0°-90°	1433.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1433.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	514	514	514	514	514	
5°	513	510	507	508	508	49
15°	502	491	494	482	492	141
25°	455	458	458	450	451	211
35°	408	405	406	400	404	255
45°	345	341	340	336	335	265
55°	270	268	266	261	263	240
65°	185	181	180	175	176	181
75°	94	90	88	83	82	98
85°	14	12	9	8	6	19
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	514.2	514.2	514.2	514.2	514.2
2.5°	510.7	514.8	510.1	508.9	509.5
5°	513.0	509.5	507.1	507.7	508.3
7.5°	510.7	507.7	510.7	505.4	507.7
10°	506.0	504.2	508.9	504.8	502.4
12.5°	501.8	498.9	495.4	496.0	497.7
15°	501.8	490.7	493.6	482.4	491.8
17.5°	498.9	484.2	485.4	489.5	483.0
20°	477.7	476.0	477.7	476.5	475.4
22.5°	470.1	469.5	473.6	463.0	465.4
25°	454.8	458.3	457.7	449.5	451.2
27.5°	448.3	445.4	443.6	445.4	439.5
30°	430.7	433.6	434.8	431.8	430.7
32.5°	421.8	420.1	414.8	414.8	411.2
35°	408.3	405.4	405.9	400.1	404.2
37.5°	393.6	390.1	392.4	383.0	389.5
40°	374.8	375.9	373.0	373.0	373.0
42.5°	360.1	358.9	356.5	351.2	357.1
45°	344.8	341.2	339.5	336.5	334.8
47.5°	324.8	323.6	323.0	316.5	317.1
50°	305.9	304.8	304.2	301.2	298.3
52.5°	284.2	283.6	285.3	281.2	282.4
55°	270.0	267.7	266.5	260.6	263.0
57.5°	249.5	243.6	245.9	240.6	242.4
60°	228.3	225.9	224.2	218.3	223.0
62.5°	207.1	203.0	201.8	197.7	195.3
65°	184.7	181.2	180.0	174.7	175.9
67.5°	157.1	160.0	158.3	153.0	152.4
70°	136.5	136.5	133.6	129.4	128.8
72.5°	115.3	113.5	111.2	107.1	105.3
75°	93.5	90.0	87.7	83.0	81.8
77.5°	71.2	68.2	65.3	61.2	60.6
80°	48.2	46.5	42.9	39.4	40.0
82.5°	30.0	28.2	24.7	21.8	21.8
85°	13.5	12.4	9.4	7.6	6.5
87.5°	2.9	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	23.6	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	25.7	27.1	26.1	27.5	27.8
	6H	26.4	27.7	26.8	28.1	28.4	26.0	27.3	26.4	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	27.6	28.1
4H	2H	24.3	25.6	24.7	26.0	26.4	24.2	25.6	24.6	25.9	26.3
	3H	26.2	27.4	26.6	27.8	28.2	26.0	27.2	26.5	27.6	28.0
	4H	27.0	28.0	27.4	28.4	28.8	26.7	27.7	27.1	28.1	28.6
	6H	27.4	28.3	27.9	28.8	29.2	27.1	28.0	27.5	28.4	28.9
	8H	27.6	28.4	28.0	28.8	29.3	27.1	28.0	27.6	28.4	28.9
	12H	27.6	28.4	28.1	28.8	29.3	27.1	27.9	27.6	28.4	28.9
8H	4H	27.2	28.0	27.7	28.5	29.0	27.0	27.8	27.4	28.2	28.7
	6H	27.8	28.5	28.2	28.9	29.4	27.4	28.1	27.9	28.6	29.1
	8H	27.9	28.5	28.4	29.0	29.5	27.5	28.1	28.0	28.6	29.1
	12H	28.0	28.5	28.5	29.0	29.6	27.5	28.1	28.0	28.6	29.1
12H	4H	27.2	28.0	27.7	28.4	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	27.5	28.1	28.1	28.6	29.2

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