

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: P1219831

Luminaire Tested: SEC2HSSOLMWH-4000K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219831
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSSOLMWH-4000K
Description: Solar SEL 1500 5CCT Motion 2H WH-4000K

Light Source:
Ballast/Driver: -

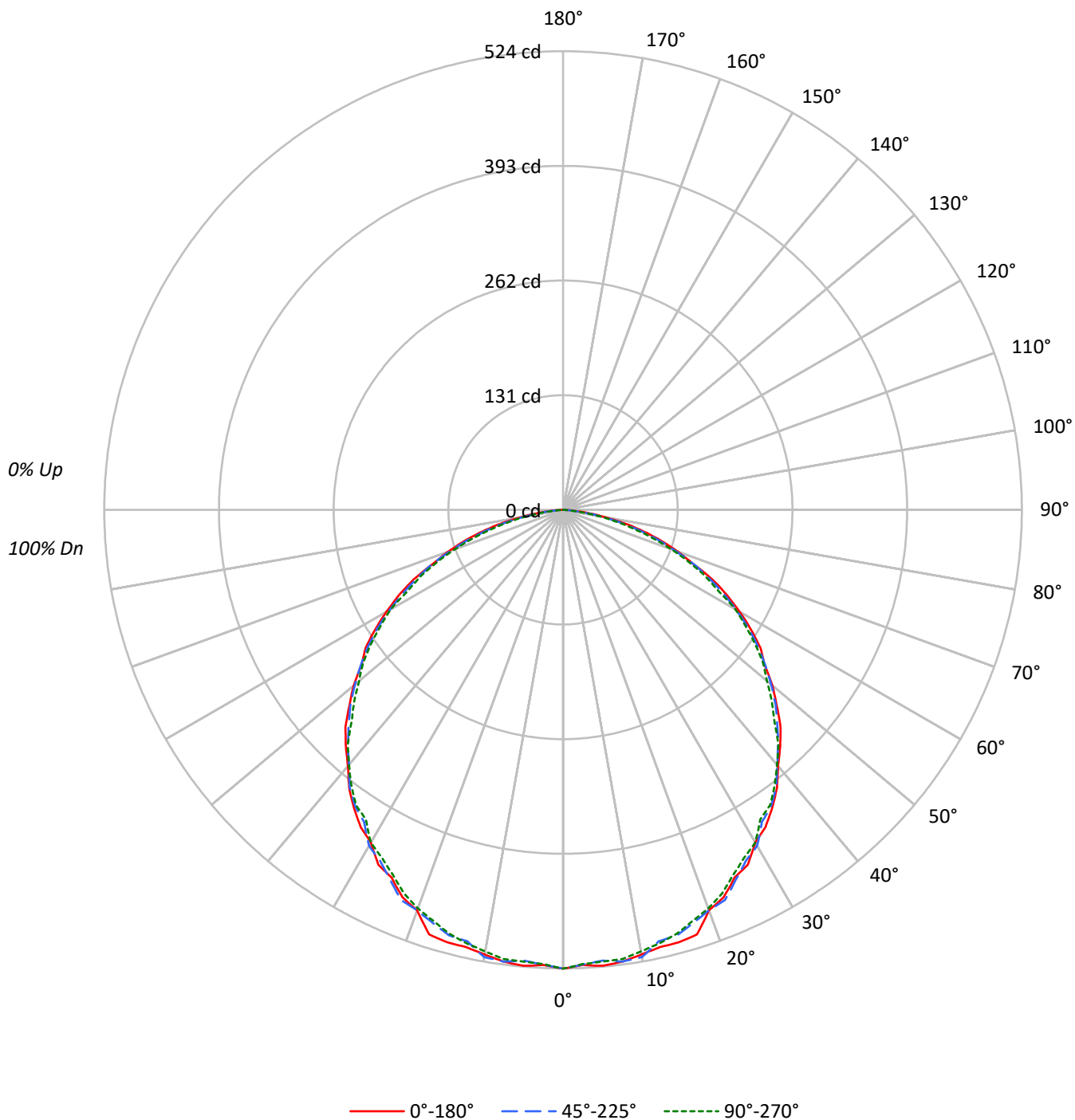
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1461.2 lumens
Efficiency: N/A
Efficacy: 121.8 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 (Ain): NR
Voltage Rise (V): NR
Power Factor: >0.13
Total Harmonic Distortion (THDi): <24
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°	30093	30093	30093
5°	30139	29793	29862
10°	30068	30242	29858
15°	30406	29907	29800
20°	29752	29752	29605
25°	29365	29555	29137
30°	29101	29379	29101
35°	29168	29000	28874
40°	28627	28492	28492
45°	28529	28091	27701
50°	27856	27695	27159
55°	27554	27194	26833
60°	26717	26235	26097
65°	25578	24926	24356
70°	23348	22844	22038
75°	21160	19829	18499
80°	16265	14480	13488
85°	9090	6323	4347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28529 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	3.4
10°-20°	141.7	9.7
20°-30°	214.3	14.7
30°-40°	257.6	17.6
40°-50°	266.7	18.2
50°-60°	240.8	16.5
60°-70°	180.2	12.3
70°-80°	94.3	6.5
80°-90°	16.2	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°	405.5	27.8
0°-40°	663.1	45.4
0°-60°	1170.5	80.1
0°-90°	1461.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1461.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	523	519	517	518	518	50
15°	512	500	503	492	501	144
25°	464	467	467	458	460	215
35°	416	413	414	408	412	260
45°	351	348	346	343	341	270
55°	275	273	272	266	268	244
65°	188	185	184	178	179	184
75°	95	92	89	85	83	100
85°	14	13	10	8	7	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	524.2	524.2	524.2	524.2	524.2
2.5°	520.6	524.8	520.0	518.8	519.4
5°	523.0	519.4	517.0	517.6	518.2
7.5°	520.6	517.6	520.6	515.2	517.6
10°	515.8	514.0	518.8	514.6	512.2
12.5°	511.6	508.6	505.0	505.6	507.4
15°	511.6	500.2	503.2	491.8	501.4
17.5°	508.6	493.6	494.8	499.0	492.4
20°	487.0	485.2	487.0	485.8	484.6
22.5°	479.2	478.6	482.8	472.0	474.4
25°	463.6	467.2	466.6	458.2	460.0
27.5°	457.0	454.0	452.2	454.0	448.0
30°	439.0	442.0	443.2	440.2	439.0
32.5°	430.0	428.2	422.8	422.8	419.2
35°	416.2	413.2	413.8	407.8	412.0
37.5°	401.2	397.6	400.0	390.4	397.0
40°	382.0	383.2	380.2	380.2	380.2
42.5°	367.0	365.8	363.4	358.0	364.0
45°	351.4	347.8	346.0	343.0	341.2
47.5°	331.0	329.8	329.2	322.7	323.3
50°	311.9	310.7	310.1	307.1	304.1
52.5°	289.7	289.1	290.9	286.7	287.9
55°	275.3	272.9	271.7	265.7	268.1
57.5°	254.3	248.3	250.7	245.3	247.1
60°	232.7	230.3	228.5	222.5	227.3
62.5°	211.1	206.9	205.7	201.5	199.1
65°	188.3	184.7	183.5	178.1	179.3
67.5°	160.1	163.1	161.3	155.9	155.3
70°	139.1	139.1	136.1	131.9	131.3
72.5°	117.5	115.7	113.3	109.1	107.4
75°	95.4	91.8	89.4	84.6	83.4
77.5°	72.6	69.6	66.6	62.4	61.8
80°	49.2	47.4	43.8	40.2	40.8
82.5°	30.6	28.8	25.2	22.2	22.2
85°	13.8	12.6	9.6	7.8	6.6
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	24.1	25.6	26.0	23.6	25.2	24.0	25.5	25.8
	3H	25.5	26.9	25.8	27.3	27.6	25.3	26.7	25.6	27.1	27.4
	4H	26.1	27.5	26.5	27.8	28.2	25.8	27.2	26.2	27.5	27.9
	6H	26.5	27.8	26.9	28.1	28.5	26.1	27.4	26.5	27.7	28.1
	8H	26.6	27.8	27.0	28.2	28.6	26.1	27.4	26.6	27.8	28.2
	12H	26.6	27.8	27.0	28.1	28.6	26.1	27.3	26.6	27.7	28.1
4H	2H	24.3	25.7	24.7	26.1	26.4	24.2	25.6	24.6	26.0	26.3
	3H	26.3	27.4	26.7	27.8	28.2	26.1	27.3	26.5	27.7	28.1
	4H	27.0	28.1	27.5	28.5	28.9	26.8	27.8	27.2	28.2	28.6
	6H	27.5	28.4	28.0	28.9	29.3	27.1	28.0	27.6	28.5	28.9
	8H	27.6	28.5	28.1	28.9	29.4	27.2	28.0	27.7	28.5	29.0
	12H	27.7	28.4	28.1	28.9	29.4	27.2	28.0	27.7	28.4	28.9
8H	4H	27.3	28.1	27.7	28.6	29.0	27.0	27.9	27.5	28.3	28.8
	6H	27.8	28.5	28.3	29.0	29.5	27.5	28.2	28.0	28.7	29.1
	8H	28.0	28.6	28.5	29.1	29.6	27.6	28.2	28.1	28.7	29.2
	12H	28.1	28.6	28.6	29.1	29.7	27.6	28.1	28.1	28.6	29.2
12H	4H	27.3	28.0	27.8	28.5	29.0	27.0	27.8	27.5	28.3	28.7
	6H	27.8	28.5	28.4	28.9	29.5	27.5	28.1	28.0	28.6	29.1
	8H	28.0	28.6	28.5	29.1	29.6	27.6	28.2	28.1	28.7	29.2

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Peachtree City, GA 30269



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