

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: P1219821

Luminaire Tested: SEC1HSSOLMWH-4000K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219821
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC1HSSOLMWH-4000K
Description: Solar SEL 1000 5CCT Motion 1H WH-4000K

Light Source:
Ballast/Driver: -

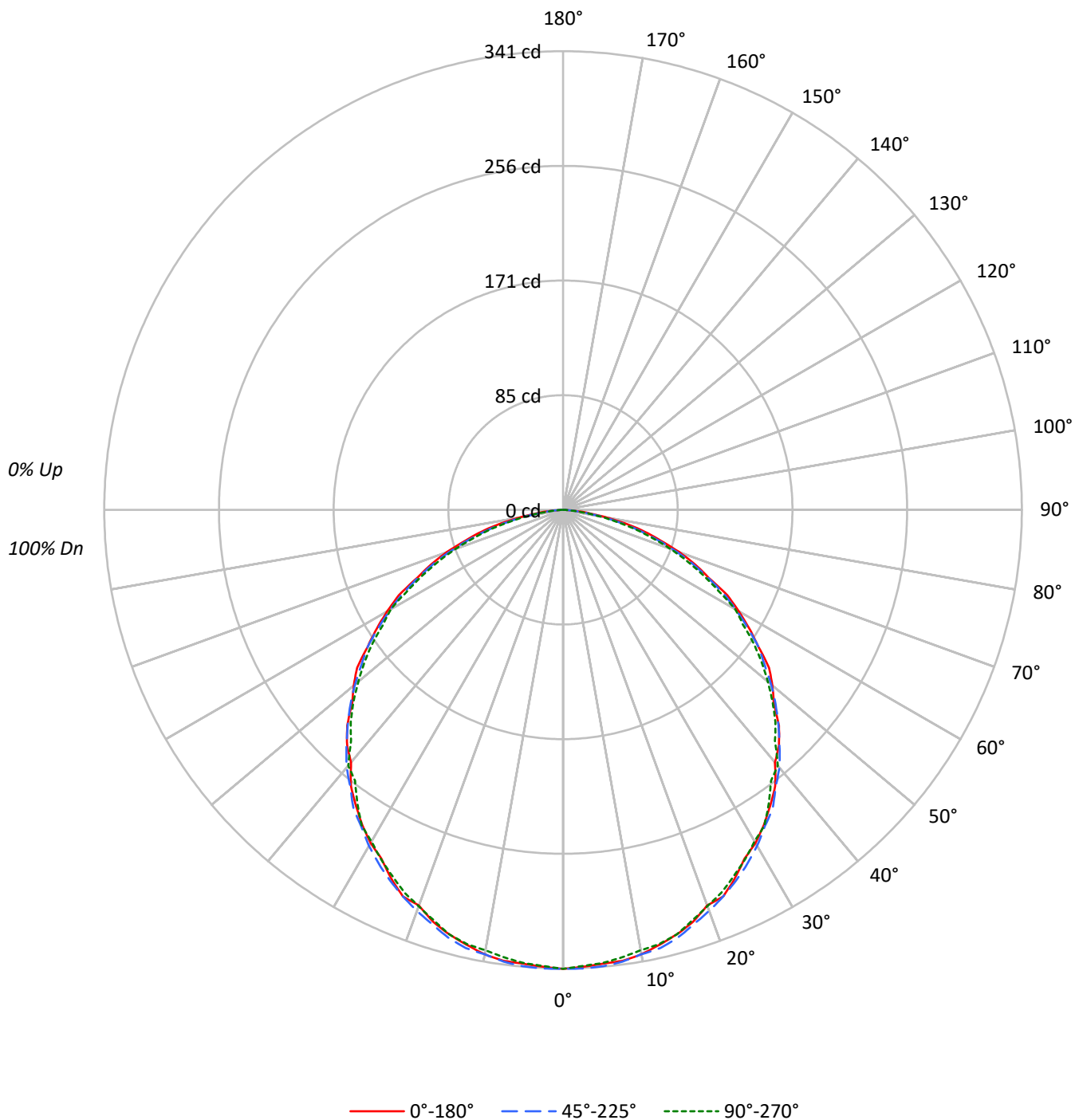
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 952.0 lumens
Efficiency: N/A
Efficacy: 119.0 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: >0.12
Total Harmonic Distortion (THDi): <23
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	96	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	80	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°	34988	34988	34988
5°	34864	35060	34802
10°	34934	34934	34612
15°	34683	34959	34683
20°	34146	34626	34211
25°	34193	34408	33979
30°	33854	34150	33701
35°	33589	33977	33351
40°	32800	33482	33228
45°	32895	32808	32344
50°	32375	32184	31673
55°	31670	31670	30884
60°	30918	30405	30282
65°	28963	28671	27895
70°	27515	26376	25447
75°	24914	22894	21903
80°	19304	17061	15939
85°	11056	8116	7410

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 47.5°

Luminance: 32897 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.2	3.4
10°-20°	92.3	9.7
20°-30°	139.4	14.6
30°-40°	168.0	17.6
40°-50°	173.8	18.3
50°-60°	156.7	16.5
60°-70°	116.9	12.3
70°-80°	61.4	6.5
80°-90°	11.1	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°	264.0	27.7
0°-40°	432.0	45.4
0°-60°	762.5	80.1
0°-90°	952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	952.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	341	341	341	341	341	
5°	339	340	341	338	338	32
15°	327	327	329	326	327	92
25°	302	300	304	304	300	139
35°	268	269	272	267	266	168
45°	227	226	226	222	223	174
55°	177	177	177	174	173	159
65°	119	121	118	116	115	120
75°	63	60	58	55	55	66
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°	341.3	341.3	341.3	341.3	341.3
2.5°	340.0	340.0	341.3	338.8	339.4
5°	338.8	340.0	340.7	338.2	338.2
7.5°	338.2	336.9	338.8	338.2	335.6
10°	335.6	334.4	335.6	333.8	332.5
12.5°	331.2	329.4	333.8	332.5	330.6
15°	326.8	326.8	329.4	326.2	326.8
17.5°	321.2	323.7	323.1	320.6	319.9
20°	313.0	315.5	317.4	316.2	313.6
22.5°	311.1	309.9	311.1	310.5	308.0
25°	302.3	300.4	304.2	303.6	300.4
27.5°	292.3	295.4	296.7	294.2	292.9
30°	286.0	287.2	288.5	286.0	284.7
32.5°	277.8	277.8	279.1	275.9	278.4
35°	268.4	269.0	271.5	267.1	266.5
37.5°	259.0	261.5	259.6	256.4	253.9
40°	245.1	250.2	250.2	247.6	248.3
42.5°	237.6	238.2	238.2	236.3	233.2
45°	226.9	225.6	226.3	222.5	223.1
47.5°	212.4	216.8	214.3	211.8	211.2
50°	203.0	203.6	201.8	198.6	198.6
52.5°	193.0	190.4	188.6	186.7	186.0
55°	177.2	176.6	177.2	174.1	172.8
57.5°	164.0	164.0	162.2	159.0	158.4
60°	150.8	150.2	148.3	145.2	147.7
62.5°	137.7	134.5	133.9	130.1	130.1
65°	119.4	120.7	118.2	116.3	115.0
67.5°	106.2	106.2	103.7	100.6	99.9
70°	91.8	90.5	88.0	85.5	84.9
72.5°	76.1	75.4	72.9	70.4	69.8
75°	62.9	60.3	57.8	55.3	55.3
77.5°	47.8	45.9	42.7	40.9	40.2
80°	32.7	31.4	28.9	27.7	27.0
82.5°	20.1	18.9	16.3	15.1	14.5
85°	9.4	8.2	6.9	6.3	6.3
87.5°	1.9	1.9	1.9	1.3	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	24.3	25.9	24.7	26.2	26.5	24.1	25.7	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	27.9
	4H	26.7	28.1	27.1	28.4	28.8	26.3	27.7	26.7	28.0	28.4
	6H	27.1	28.3	27.5	28.7	29.1	26.6	27.9	27.0	28.2	28.6
	8H	27.1	28.4	27.6	28.8	29.2	26.6	27.9	27.1	28.3	28.7
	12H	27.2	28.3	27.6	28.7	29.2	26.7	27.8	27.1	28.2	28.6
4H	2H	24.9	26.3	25.3	26.6	27.0	24.7	26.1	25.1	26.4	26.8
	3H	26.8	28.0	27.3	28.4	28.8	26.6	27.7	27.0	28.1	28.5
	4H	27.6	28.6	28.0	29.0	29.5	27.2	28.3	27.7	28.7	29.1
	6H	28.1	29.0	28.5	29.4	29.9	27.6	28.5	28.1	29.0	29.4
	8H	28.2	29.0	28.6	29.5	29.9	27.7	28.6	28.2	29.0	29.5
	12H	28.2	29.0	28.7	29.5	29.9	27.7	28.5	28.2	29.0	29.4
8H	4H	27.8	28.7	28.3	29.1	29.6	27.5	28.4	28.0	28.8	29.3
	6H	28.4	29.1	28.9	29.6	30.1	28.0	28.7	28.5	29.2	29.6
	8H	28.5	29.2	29.1	29.7	30.2	28.1	28.7	28.6	29.2	29.7
	12H	28.6	29.2	29.1	29.7	30.2	28.1	28.7	28.6	29.2	29.7
12H	4H	27.8	28.6	28.3	29.1	29.5	27.5	28.3	28.0	28.8	29.2
	6H	28.4	29.0	28.9	29.5	30.0	28.0	28.6	28.5	29.1	29.6
	8H	28.6	29.1	29.1	29.6	30.2	28.1	28.7	28.6	29.2	29.7

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