

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: P1219819

Luminaire Tested: SEC1HSSOLMWH-2700K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219819
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC1HSSOLMWH-2700K
Description: Solar SEL 1000 5CCT Motion 1H WH-2700K

Light Source:
Ballast/Driver: -

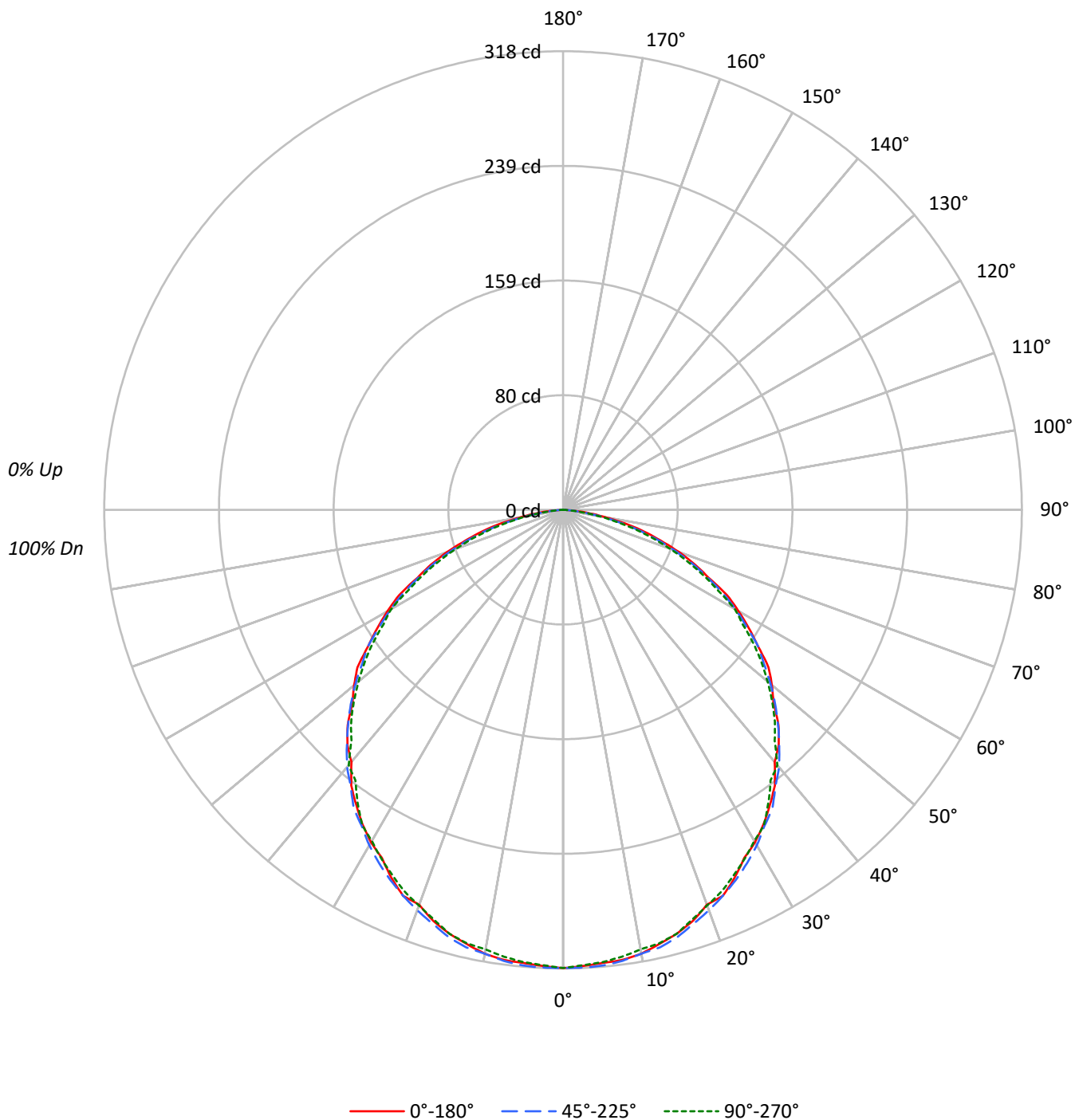
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 886.3 lumens
Efficiency: N/A
Efficacy: 110.8 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: >0.9
Total Harmonic Distortion (THDi): <20
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	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°	32569	32569	32569
5°	32456	32641	32395
10°	32530	32530	32217
15°	32295	32539	32295
20°	31790	32237	31855
25°	31841	32033	31637
30°	31511	31795	31381
35°	31274	31637	31049
40°	30538	31167	30926
45°	30619	30546	30112
50°	30142	29951	29488
55°	29490	29490	28757
60°	28786	28314	28191
65°	26974	26682	25979
70°	25597	24548	23679
75°	23171	21309	20398
80°	17947	15880	14877
85°	10351	7528	6940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 47.5°

Luminance: 30636 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.0	3.4
10°-20°	85.9	9.7
20°-30°	129.8	14.6
30°-40°	156.4	17.6
40°-50°	161.9	18.3
50°-60°	145.9	16.5
60°-70°	108.9	12.3
70°-80°	57.2	6.5
80°-90°	10.3	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°	245.7	27.7
0°-40°	402.1	45.4
0°-60°	709.9	80.1
0°-90°	886.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	886.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	318	318	318	318	318	
5°	315	317	317	315	315	30
15°	304	304	307	304	304	86
25°	282	280	283	283	280	129
35°	250	250	253	249	248	156
45°	211	210	211	207	208	162
55°	165	164	165	162	161	148
65°	111	112	110	108	107	112
75°	58	56	54	52	52	61
85°	9	8	6	6	6	12
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	317.7	317.7	317.7	317.7	317.7
2.5°	316.6	316.6	317.7	315.4	316.0
5°	315.4	316.6	317.2	314.8	314.8
7.5°	314.8	313.6	315.4	314.8	312.5
10°	312.5	311.3	312.5	310.7	309.5
12.5°	308.4	306.6	310.7	309.5	307.8
15°	304.3	304.3	306.6	303.7	304.3
17.5°	299.0	301.4	300.8	298.4	297.8
20°	291.4	293.7	295.5	294.3	292.0
22.5°	289.6	288.5	289.6	289.1	286.7
25°	281.5	279.7	283.2	282.6	279.7
27.5°	272.1	275.0	276.2	273.9	272.7
30°	266.2	267.4	268.6	266.2	265.1
32.5°	258.6	258.6	259.8	256.9	259.2
35°	249.9	250.4	252.8	248.7	248.1
37.5°	241.1	243.4	241.7	238.7	236.4
40°	228.2	232.9	232.9	230.5	231.1
42.5°	221.2	221.8	221.8	220.0	217.1
45°	211.2	210.1	210.7	207.1	207.7
47.5°	197.8	201.9	199.5	197.2	196.6
50°	189.0	189.6	187.8	184.9	184.9
52.5°	179.6	177.3	175.5	173.8	173.2
55°	165.0	164.4	165.0	162.1	160.9
57.5°	152.7	152.7	151.0	148.0	147.5
60°	140.4	139.9	138.1	135.2	137.5
62.5°	128.1	125.2	124.6	121.1	121.1
65°	111.2	112.3	110.0	108.3	107.1
67.5°	98.9	98.9	96.5	93.6	93.0
70°	85.4	84.3	81.9	79.6	79.0
72.5°	70.8	70.2	67.9	65.5	65.0
75°	58.5	56.2	53.8	51.5	51.5
77.5°	44.5	42.7	39.8	38.0	37.4
80°	30.4	29.3	26.9	25.7	25.2
82.5°	18.7	17.6	15.2	14.0	13.5
85°	8.8	7.6	6.4	5.9	5.9
87.5°	1.8	1.8	1.8	1.2	1.8
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	24.0	25.7	24.4	26.0	26.3	23.8	25.4	24.2	25.8	26.1
	3H	25.8	27.3	26.2	27.6	28.0	25.5	27.0	25.9	27.3	27.7
	4H	26.4	27.8	26.8	28.2	28.5	26.0	27.4	26.4	27.8	28.2
	6H	26.8	28.1	27.2	28.5	28.8	26.3	27.6	26.8	28.0	28.4
	8H	26.9	28.1	27.3	28.5	28.9	26.4	27.6	26.8	28.0	28.4
	12H	26.9	28.1	27.4	28.5	28.9	26.4	27.6	26.8	28.0	28.4
4H	2H	24.6	26.0	25.0	26.4	26.7	24.5	25.8	24.9	26.2	26.6
	3H	26.6	27.8	27.0	28.2	28.6	26.3	27.5	26.7	27.9	28.3
	4H	27.3	28.4	27.8	28.8	29.2	27.0	28.0	27.4	28.4	28.9
	6H	27.8	28.7	28.3	29.2	29.6	27.4	28.3	27.8	28.7	29.2
	8H	27.9	28.8	28.4	29.2	29.7	27.5	28.3	27.9	28.7	29.2
	12H	28.0	28.8	28.5	29.2	29.7	27.5	28.2	28.0	28.7	29.2
8H	4H	27.6	28.4	28.0	28.9	29.3	27.3	28.1	27.7	28.6	29.0
	6H	28.1	28.8	28.6	29.3	29.8	27.7	28.4	28.2	28.9	29.4
	8H	28.3	28.9	28.8	29.4	29.9	27.8	28.5	28.3	29.0	29.5
	12H	28.4	28.9	28.9	29.4	30.0	27.9	28.4	28.4	28.9	29.5
12H	4H	27.6	28.3	28.1	28.8	29.3	27.3	28.0	27.8	28.5	29.0
	6H	28.2	28.8	28.7	29.3	29.8	27.8	28.4	28.3	28.9	29.4
	8H	28.3	28.9	28.8	29.4	29.9	27.9	28.4	28.4	28.9	29.5

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