

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: P1219840

Luminaire Tested: SEC3HSSOLMWH-3000K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219840
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC3HSSOLMWH-3000K
Description: Solar SEL 2000 5CCT Motion 3H WH-3000K

Light Source:
Ballast/Driver: -

Summary

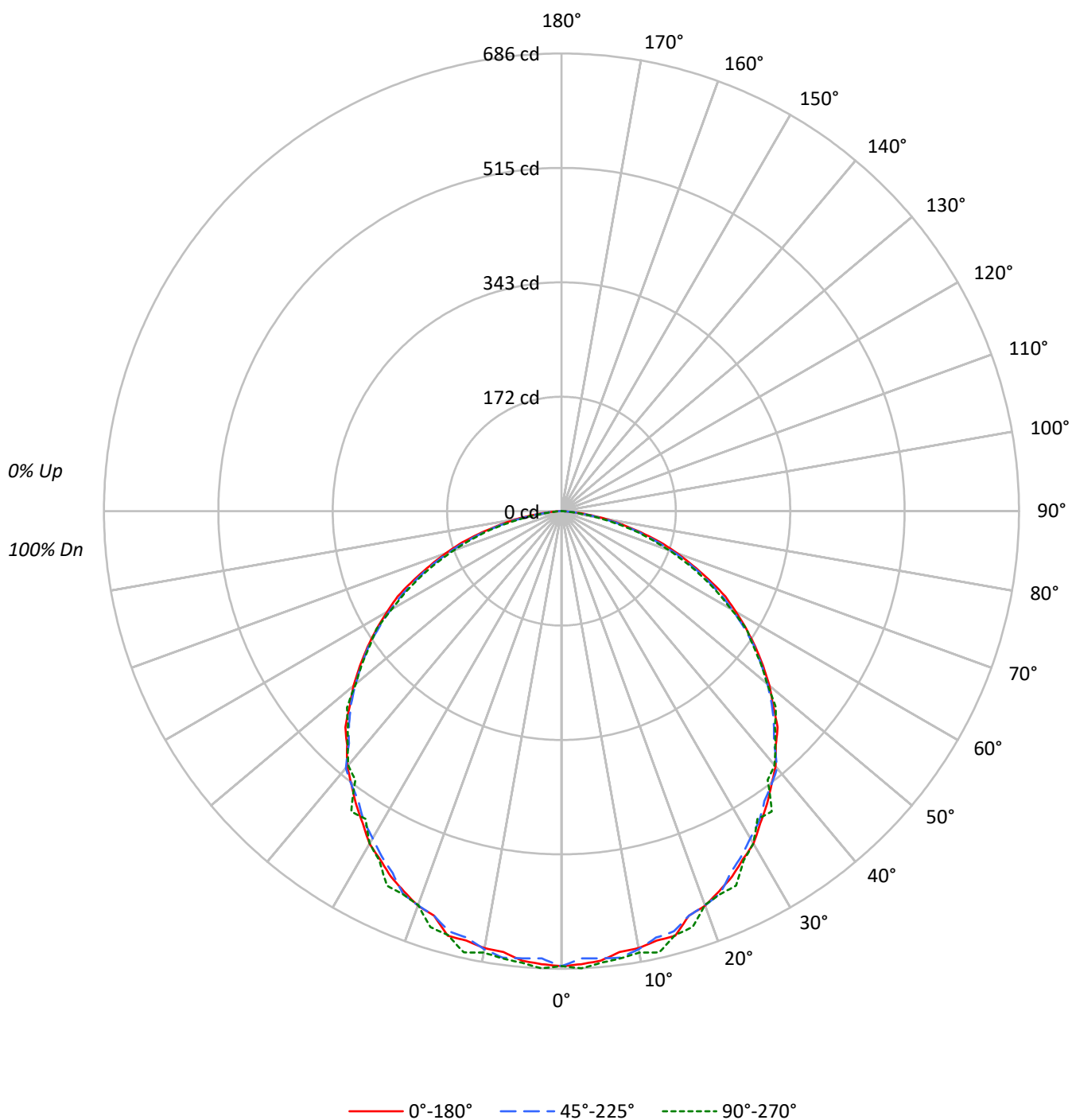
Lumens per Lamp: N/A
Luminaire Lumens: 1913.3 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 1.08' x H: 0')
CIE Type: Direct

Input Watts (W): 15
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

TEST NUMBER: P1219840

CATALOG NUMBER: SEC3HSSOLMWH-3000K

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	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	52	47		58	51	46		56
6	70	57	48	41	68	56	47	41	54	47	41		52	46	41		51
7	65	52	43	37	63	51	42	36	49	42	36		48	41	36		46
8	61	47	38	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	26		37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27189	27189	27189
5°	27065	26929	27201
10°	26920	26989	27195
15°	27190	26910	27145
20°	26702	26677	26656
25°	26595	26344	27237
30°	26502	26060	26479
35°	26125	25818	26753
40°	25995	26172	25875
45°	25833	25388	25517
50°	25230	24982	24951
55°	24660	24507	24348
60°	24055	23609	23378
65°	23026	22489	22008
70°	21471	20806	20025
75°	18977	18191	17498
80°	15313	13362	12581
85°	8279	6450	5443

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 25833 cd/sqm

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CATALOG NUMBER: SEC3HSSOLMWH-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	3.4
10°-20°	184.3	9.6
20°-30°	279.0	14.6
30°-40°	335.5	17.5
40°-50°	349.9	18.3
50°-60°	316.0	16.5
60°-70°	237.1	12.4
70°-80°	124.6	6.5
80°-90°	22.5	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°	527.7	27.6
0°-40°	863.2	45.1
0°-60°	1529.1	79.9
0°-90°	1913.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1913.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	682	682	682	682	682	
5°	676	675	673	684	680	64
15°	659	656	652	659	658	184
25°	605	609	599	612	619	278
35°	537	537	530	543	550	336
45°	458	455	450	454	453	351
55°	355	359	353	353	350	317
65°	244	246	238	242	233	242
75°	123	122	118	112	114	131
85°	18	18	14	12	12	26
90°	0	0	0	0	0	

TEST NUMBER: P1219840

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	682.0	682.0	682.0	682.0	682.0
2.5°	679.7	683.1	671.2	680.8	685.9
5°	676.3	674.6	672.9	684.2	679.7
7.5°	666.7	675.7	675.2	674.6	676.3
10°	665.0	670.1	666.7	673.5	671.8
12.5°	659.4	664.4	654.8	663.3	677.4
15°	658.8	656.0	652.0	659.4	657.7
17.5°	635.6	631.1	635.6	644.7	653.7
20°	629.4	632.8	628.8	636.8	628.3
22.5°	617.0	619.8	620.9	619.8	621.5
25°	604.6	609.1	598.9	611.9	619.2
27.5°	588.7	588.2	583.6	591.0	591.0
30°	575.7	574.6	566.1	574.0	575.2
32.5°	554.8	550.9	551.4	550.9	546.9
35°	536.8	536.8	530.5	543.0	549.7
37.5°	517.0	518.1	517.0	518.1	507.9
40°	499.5	498.9	502.9	498.3	497.2
42.5°	475.7	478.0	471.8	478.0	474.6
45°	458.2	455.4	450.3	453.7	452.6
47.5°	430.0	427.7	427.7	431.1	436.2
50°	406.8	411.9	402.8	405.1	402.3
52.5°	380.8	380.8	377.4	381.4	376.9
55°	354.8	358.8	352.6	352.6	350.3
57.5°	328.3	331.1	324.3	326.6	328.8
60°	301.7	298.9	296.1	295.5	293.2
62.5°	276.9	274.6	267.8	267.2	263.9
65°	244.1	245.8	238.4	241.8	233.3
67.5°	213.0	212.4	208.5	206.8	202.3
70°	184.2	185.3	178.5	176.8	171.8
72.5°	155.4	153.7	146.9	144.1	141.3
75°	123.2	121.5	118.1	111.9	113.6
77.5°	93.8	91.5	89.3	82.5	80.8
80°	66.7	63.8	58.2	55.4	54.8
82.5°	40.1	38.4	34.5	31.1	29.4
85°	18.1	17.5	14.1	12.4	11.9
87.5°	4.5	4.0	3.4	3.4	2.8
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	23.4	25.1	23.8	25.4	25.7	23.4	25.0	23.7	25.3	25.6
	3H	25.2	26.7	25.6	27.0	27.4	25.0	26.5	25.4	26.8	27.2
	4H	25.8	27.2	26.2	27.5	27.9	25.6	27.0	26.0	27.3	27.7
	6H	26.2	27.5	26.6	27.8	28.2	25.9	27.1	26.3	27.5	27.9
	8H	26.3	27.5	26.7	27.9	28.3	25.9	27.1	26.3	27.5	27.9
	12H	26.3	27.5	26.7	27.9	28.3	25.9	27.1	26.3	27.5	27.9
4H	2H	24.0	25.4	24.4	25.8	26.2	24.0	25.4	24.4	25.7	26.1
	3H	26.0	27.2	26.4	27.6	28.0	25.8	27.0	26.3	27.4	27.8
	4H	26.7	27.8	27.2	28.2	28.6	26.5	27.5	26.9	28.0	28.4
	6H	27.2	28.1	27.7	28.6	29.0	26.9	27.8	27.3	28.2	28.7
	8H	27.3	28.2	27.8	28.6	29.1	26.9	27.8	27.4	28.2	28.7
	12H	27.4	28.2	27.9	28.6	29.1	27.0	27.7	27.4	28.2	28.7
8H	4H	27.0	27.8	27.4	28.3	28.7	26.8	27.6	27.2	28.1	28.5
	6H	27.5	28.3	28.0	28.7	29.2	27.2	27.9	27.7	28.4	28.9
	8H	27.7	28.3	28.2	28.8	29.3	27.3	28.0	27.8	28.5	28.9
	12H	27.8	28.3	28.3	28.8	29.4	27.4	27.9	27.9	28.4	29.0
12H	4H	27.0	27.8	27.5	28.2	28.7	26.8	27.5	27.3	28.0	28.5
	6H	27.6	28.2	28.1	28.7	29.2	27.3	27.9	27.8	28.3	28.9
	8H	27.8	28.3	28.3	28.8	29.4	27.4	27.9	27.9	28.4	29.0

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