

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: P1219841

Luminaire Tested: SEC3HSSOLMWH-4000K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219841
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC3HSSOLMWH-4000K
Description: Solar SEL 2000 5CCT Motion 3H WH-4000K

Light Source:
Ballast/Driver: -

Summary

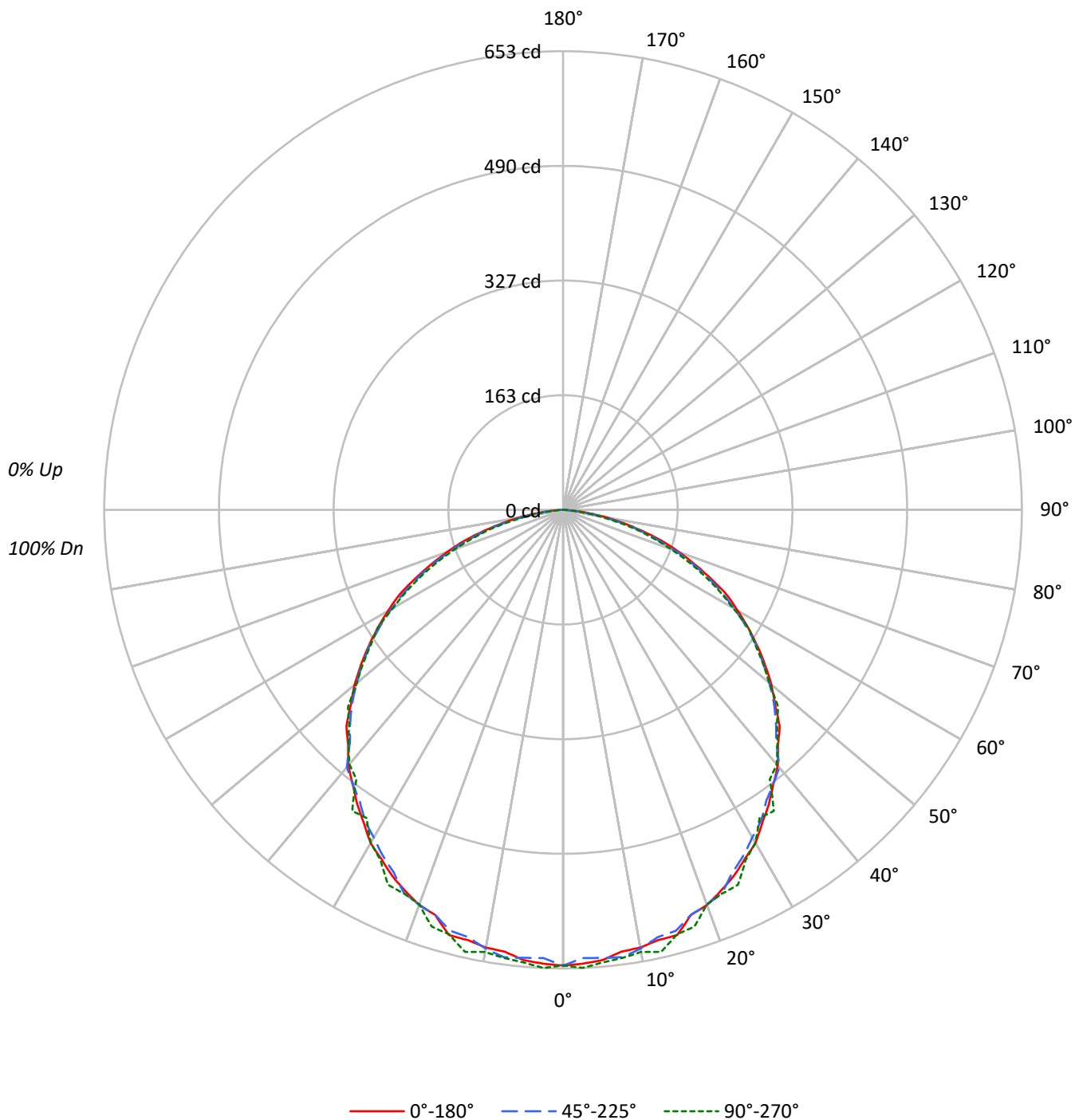
Lumens per Lamp: N/A
Luminaire Lumens: 1820.6 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 1.08' x H: 0')
CIE Type: Direct

Input Watts (W): 15
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: >0.14
Total Harmonic Distortion (THDi): <25
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	72		70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70	65	61		59
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62	57	53		50
5	76	63	54	48	74	62	54	47	60	52	47		58	51	46		56	50	46		44
6	70	57	48	41	68	56	47	41	54	47	41		52	46	41		51	45	40		38
7	65	52	43	37	63	51	42	36	49	42	36		48	41	36		46	40	36		34
8	61	47	38	33	59	46	38	33	45	38	32		44	37	32		43	36	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	26		37	31	26		36	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25869	25869	25869
5°	25756	25624	25884
10°	25617	25681	25876
15°	25874	25606	25828
20°	25408	25387	25366
25°	25306	25069	25918
30°	25222	24798	25194
35°	24860	24568	25458
40°	24735	24902	24621
45°	24581	24159	24277
50°	24008	23773	23742
55°	23465	23319	23166
60°	22891	22461	22245
65°	21913	21404	20942
70°	20433	19804	19046
75°	18053	17313	16651
80°	14555	12719	11984
85°	7868	6129	5169

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 24581 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	3.4
10°-20°	175.4	9.6
20°-30°	265.5	14.6
30°-40°	319.3	17.5
40°-50°	332.9	18.3
50°-60°	300.7	16.5
60°-70°	225.6	12.4
70°-80°	118.6	6.5
80°-90°	21.4	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°	502.2	27.6
0°-40°	821.4	45.1
0°-60°	1455.0	79.9
0°-90°	1820.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1820.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	649	649	649	649	649	
5°	644	642	640	651	647	61
15°	627	624	620	627	626	175
25°	575	580	570	582	589	265
35°	511	511	505	517	523	320
45°	436	433	428	432	431	334
55°	338	341	336	336	333	302
65°	232	234	227	230	222	230
75°	117	116	112	106	108	125
85°	17	17	13	12	11	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	648.9	648.9	648.9	648.9	648.9
2.5°	646.8	650.0	638.7	647.9	652.7
5°	643.6	641.9	640.3	651.1	646.8
7.5°	634.4	643.0	642.5	641.9	643.6
10°	632.8	637.6	634.4	640.9	639.2
12.5°	627.4	632.3	623.1	631.2	644.6
15°	626.9	624.2	620.4	627.4	625.8
17.5°	604.8	600.5	604.8	613.4	622.0
20°	598.9	602.2	598.4	605.9	597.9
22.5°	587.1	589.8	590.9	589.8	591.4
25°	575.3	579.6	569.9	582.3	589.2
27.5°	560.2	559.7	555.4	562.4	562.4
30°	547.9	546.8	538.7	546.2	547.3
32.5°	528.0	524.2	524.7	524.2	520.4
35°	510.8	510.8	504.8	516.7	523.1
37.5°	491.9	493.0	491.9	493.0	483.3
40°	475.3	474.7	478.5	474.2	473.1
42.5°	452.7	454.8	448.9	454.8	451.6
45°	436.0	433.3	428.5	431.7	430.6
47.5°	409.1	407.0	407.0	410.2	415.1
50°	387.1	391.9	383.3	385.5	382.8
52.5°	362.4	362.4	359.1	362.9	358.6
55°	337.6	341.4	335.5	335.5	333.3
57.5°	312.4	315.1	308.6	310.8	312.9
60°	287.1	284.4	281.7	281.2	279.0
62.5°	263.4	261.3	254.8	254.3	251.1
65°	232.3	233.9	226.9	230.1	222.0
67.5°	202.7	202.2	198.4	196.8	192.5
70°	175.3	176.3	169.9	168.3	163.4
72.5°	147.9	146.2	139.8	137.1	134.4
75°	117.2	115.6	112.4	106.5	108.1
77.5°	89.2	87.1	84.9	78.5	76.9
80°	63.4	60.8	55.4	52.7	52.2
82.5°	38.2	36.6	32.8	29.6	28.0
85°	17.2	16.7	13.4	11.8	11.3
87.5°	4.3	3.8	3.2	3.2	2.7
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	23.3	24.9	23.6	25.2	25.5	23.2	24.8	23.6	25.1	25.5
	3H	25.0	26.5	25.4	26.8	27.2	24.8	26.3	25.2	26.6	27.0
	4H	25.6	27.0	26.0	27.4	27.7	25.4	26.8	25.8	27.1	27.5
	6H	26.0	27.3	26.4	27.7	28.1	25.7	27.0	26.1	27.3	27.7
	8H	26.1	27.3	26.5	27.7	28.1	25.7	27.0	26.2	27.4	27.8
	12H	26.1	27.3	26.6	27.7	28.1	25.7	26.9	26.2	27.3	27.7
4H	2H	23.9	25.3	24.3	25.6	26.0	23.8	25.2	24.2	25.5	25.9
	3H	25.8	27.0	26.3	27.4	27.8	25.7	26.8	26.1	27.2	27.6
	4H	26.6	27.6	27.0	28.0	28.5	26.3	27.4	26.8	27.8	28.2
	6H	27.0	28.0	27.5	28.4	28.9	26.7	27.6	27.2	28.1	28.5
	8H	27.2	28.0	27.6	28.5	28.9	26.8	27.6	27.2	28.1	28.5
	12H	27.2	28.0	27.7	28.5	28.9	26.8	27.6	27.3	28.0	28.5
8H	4H	26.8	27.7	27.3	28.1	28.6	26.6	27.4	27.0	27.9	28.4
	6H	27.4	28.1	27.9	28.6	29.0	27.0	27.8	27.5	28.2	28.7
	8H	27.5	28.2	28.0	28.7	29.2	27.1	27.8	27.7	28.3	28.8
	12H	27.6	28.2	28.1	28.7	29.2	27.2	27.7	27.7	28.2	28.8
12H	4H	26.8	27.6	27.3	28.1	28.5	26.6	27.4	27.1	27.8	28.3
	6H	27.4	28.0	27.9	28.5	29.0	27.1	27.7	27.6	28.2	28.7
	8H	27.6	28.1	28.1	28.6	29.2	27.2	27.8	27.7	28.3	28.8

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