

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: P1219842

Luminaire Tested: SEC3HSSOLMWH-5000K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219842
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC3HSSOLMWH-5000K
Description: Solar SEL 2000 5CCT Motion 3H WH-5000K

Light Source:
Ballast/Driver: -

Summary

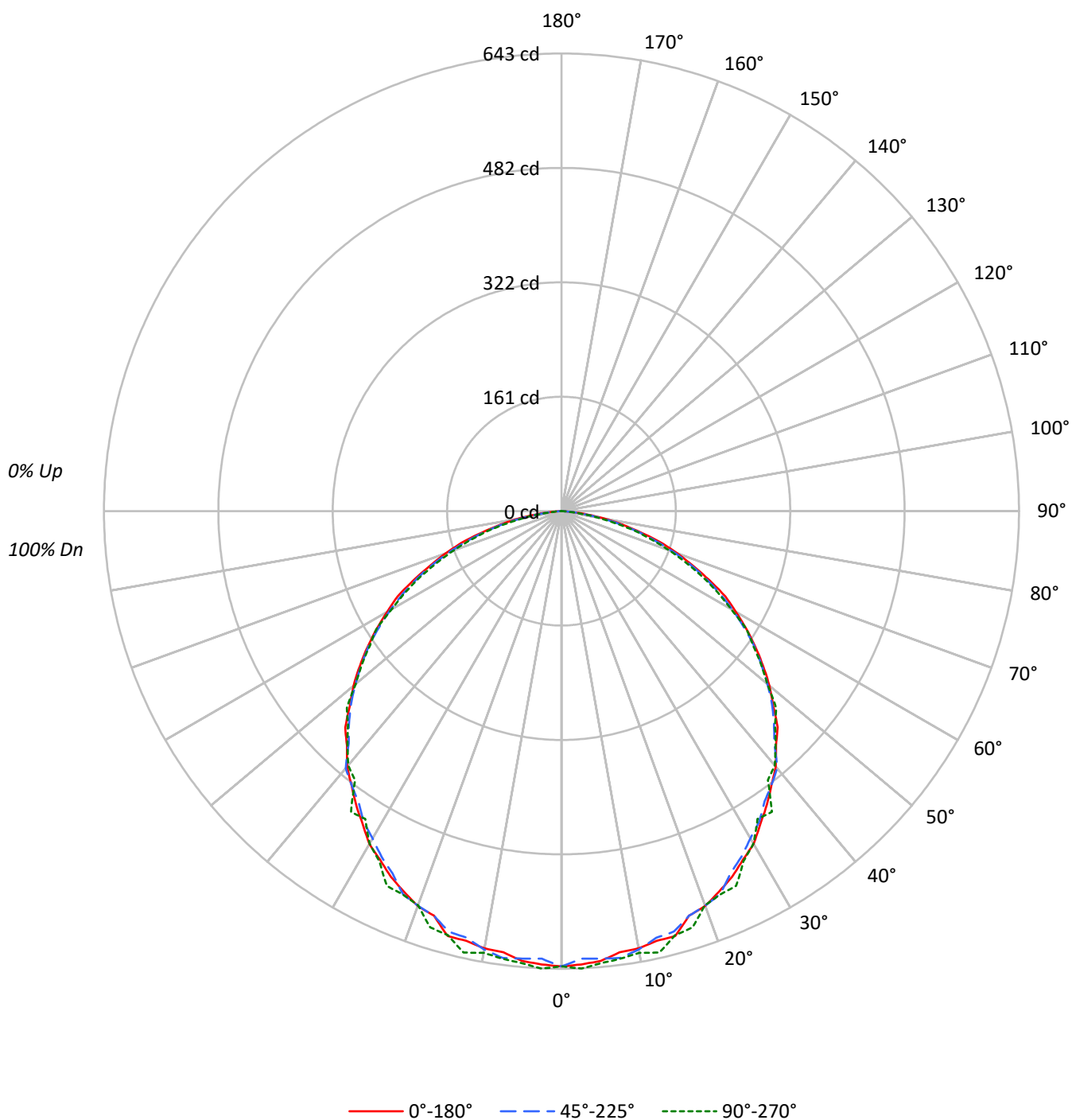
Lumens per Lamp: N/A
Luminaire Lumens: 1794.4 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 1.08' x H: 0')
CIE Type: Direct

Input Watts (W): 15
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: >0.20
Total Harmonic Distortion (THDi): <31
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	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°	25499	25499	25499
5°	25384	25256	25512
10°	25248	25313	25503
15°	25502	25238	25457
20°	25043	25022	24997
25°	24941	24708	25548
30°	24858	24444	24831
35°	24499	24217	25093
40°	24376	24543	24267
45°	24226	23809	23927
50°	23661	23432	23401
55°	23131	22985	22832
60°	22564	22142	21926
65°	21593	21093	20640
70°	20130	19512	18778
75°	17791	17051	16404
80°	14349	12535	11800
85°	7776	6038	5077

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 24226 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	3.4
10°-20°	172.8	9.6
20°-30°	261.7	14.6
30°-40°	314.7	17.5
40°-50°	328.1	18.3
50°-60°	296.4	16.5
60°-70°	222.3	12.4
70°-80°	116.9	6.5
80°-90°	21.1	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°	494.9	27.6
0°-40°	809.6	45.1
0°-60°	1434.1	79.9
0°-90°	1794.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1794.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	640	640	640	640	640	
5°	634	633	631	642	638	60
15°	618	615	612	618	617	172
25°	567	571	562	574	581	261
35°	503	503	498	509	516	315
45°	430	427	422	426	424	329
55°	333	336	331	331	328	297
65°	229	230	224	227	219	227
75°	116	114	111	105	106	123
85°	17	16	13	12	11	24
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	639.6	639.6	639.6	639.6	639.6
2.5°	637.5	640.6	629.5	638.5	643.3
5°	634.3	632.7	631.1	641.7	637.5
7.5°	625.3	633.8	633.2	632.7	634.3
10°	623.7	628.5	625.3	631.6	630.0
12.5°	618.4	623.2	614.1	622.1	635.3
15°	617.9	615.2	611.5	618.4	616.8
17.5°	596.1	591.9	596.1	604.6	613.1
20°	590.3	593.5	589.8	597.2	589.2
22.5°	578.6	581.3	582.4	581.3	582.9
25°	567.0	571.2	561.7	573.9	580.8
27.5°	552.2	551.6	547.4	554.3	554.3
30°	540.0	538.9	531.0	538.4	539.4
32.5°	520.4	516.6	517.2	516.6	512.9
35°	503.4	503.4	497.6	509.2	515.6
37.5°	484.9	485.9	484.9	485.9	476.4
40°	468.4	467.9	471.6	467.4	466.3
42.5°	446.2	448.3	442.5	448.3	445.1
45°	429.7	427.1	422.3	425.5	424.4
47.5°	403.2	401.1	401.1	404.3	409.1
50°	381.5	386.3	377.8	379.9	377.3
52.5°	357.1	357.1	354.0	357.7	353.4
55°	332.8	336.5	330.7	330.7	328.5
57.5°	307.9	310.5	304.2	306.3	308.4
60°	283.0	280.3	277.7	277.1	275.0
62.5°	259.6	257.5	251.2	250.6	247.5
65°	228.9	230.5	223.6	226.8	218.8
67.5°	199.8	199.2	195.5	193.9	189.7
70°	172.7	173.8	167.4	165.9	161.1
72.5°	145.7	144.1	137.8	135.1	132.5
75°	115.5	113.9	110.7	104.9	106.5
77.5°	88.0	85.8	83.7	77.4	75.8
80°	62.5	59.9	54.6	51.9	51.4
82.5°	37.6	36.0	32.3	29.1	27.6
85°	17.0	16.4	13.2	11.7	11.1
87.5°	4.2	3.7	3.2	3.2	2.6
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	23.2	24.9	23.6	25.2	25.5	23.1	24.8	23.5	25.1	25.4
	3H	25.0	26.5	25.4	26.8	27.1	24.8	26.3	25.2	26.6	27.0
	4H	25.6	27.0	26.0	27.3	27.7	25.3	26.7	25.7	27.1	27.5
	6H	26.0	27.3	26.4	27.6	28.0	25.6	26.9	26.0	27.3	27.7
	8H	26.1	27.3	26.5	27.7	28.1	25.7	26.9	26.1	27.3	27.7
	12H	26.1	27.3	26.5	27.6	28.1	25.7	26.9	26.1	27.2	27.7
4H	2H	23.8	25.2	24.2	25.6	25.9	23.8	25.1	24.2	25.5	25.9
	3H	25.8	27.0	26.2	27.3	27.7	25.6	26.8	26.0	27.2	27.6
	4H	26.5	27.6	26.9	28.0	28.4	26.3	27.3	26.7	27.7	28.2
	6H	27.0	27.9	27.5	28.4	28.8	26.7	27.6	27.1	28.0	28.5
	8H	27.1	28.0	27.6	28.4	28.9	26.7	27.6	27.2	28.0	28.5
	12H	27.2	27.9	27.6	28.4	28.9	26.7	27.5	27.2	28.0	28.5
8H	4H	26.8	27.6	27.2	28.1	28.5	26.5	27.4	27.0	27.8	28.3
	6H	27.3	28.0	27.8	28.5	29.0	27.0	27.7	27.5	28.2	28.7
	8H	27.5	28.1	28.0	28.6	29.1	27.1	27.7	27.6	28.2	28.7
	12H	27.6	28.1	28.1	28.6	29.2	27.1	27.7	27.6	28.2	28.7
12H	4H	26.8	27.5	27.2	28.0	28.5	26.6	27.3	27.0	27.8	28.3
	6H	27.3	28.0	27.9	28.4	29.0	27.0	27.7	27.5	28.1	28.7
	8H	27.5	28.1	28.0	28.6	29.1	27.2	27.7	27.7	28.2	28.8

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