

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: P1219839

Luminaire Tested: SEC3HSSOLMWH-2700K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219839
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC3HSSOLMWH-2700K
Description: Solar SEL 2000 5CCT Motion 3H WH-2700K

Light Source:
Ballast/Driver: -

Summary

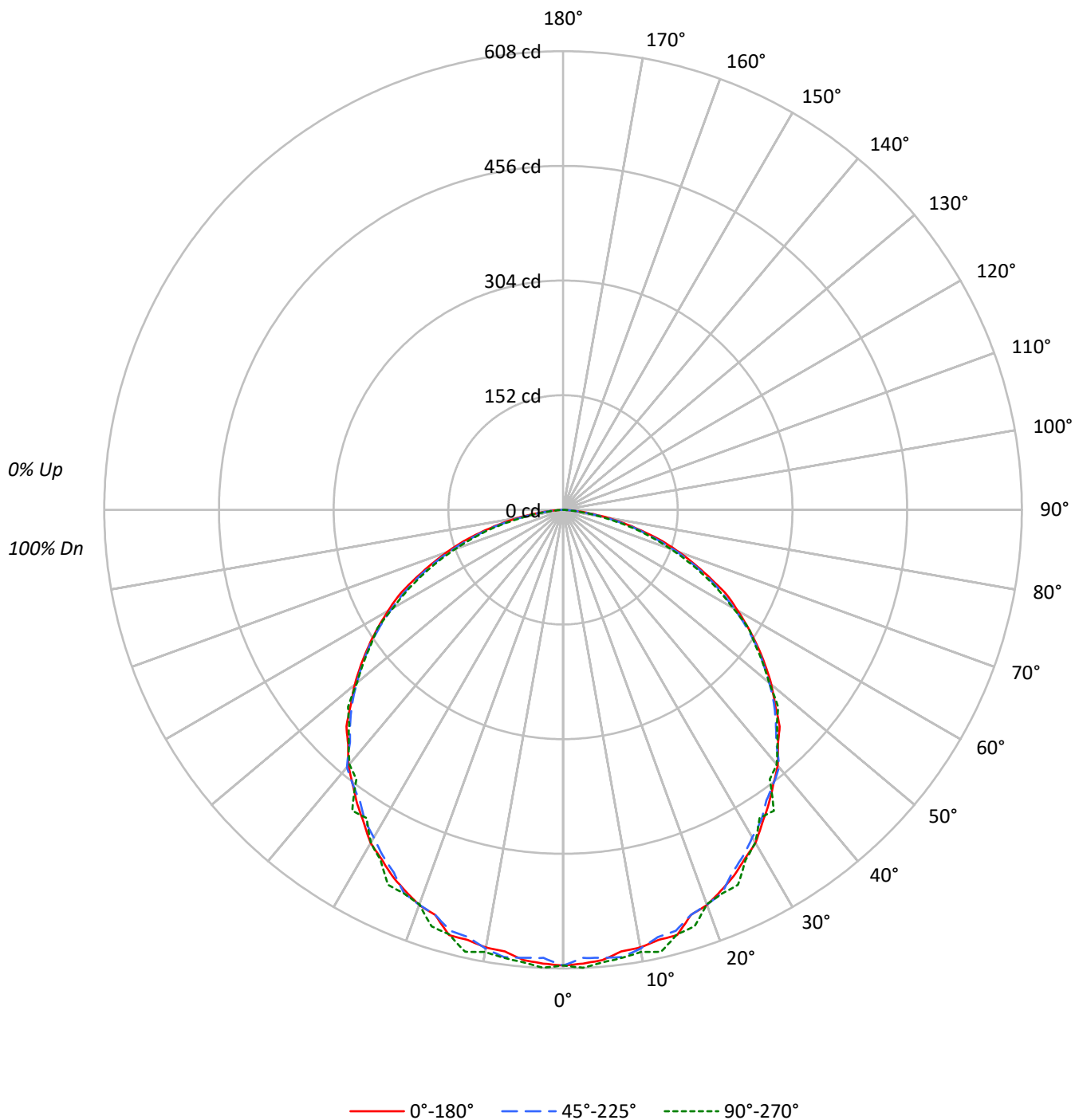
Lumens per Lamp: N/A
Luminaire Lumens: 1694.9 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 1.08' x H: 0')
CIE Type: Direct

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

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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			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°	24083	24083	24083
5°	23975	23855	24095
10°	23848	23908	24090
15°	24087	23839	24045
20°	23656	23635	23614
25°	23560	23340	24132
30°	23477	23086	23454
35°	23142	22874	23701
40°	23029	23185	22924
45°	22884	22490	22603
50°	22352	22135	22104
55°	21845	21706	21567
60°	21313	20914	20715
65°	20395	19923	19498
70°	19023	18440	17741
75°	16805	16112	15496
80°	13568	11846	11158
85°	7319	5718	4803

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22884 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	3.4
10°-20°	163.3	9.6
20°-30°	247.2	14.6
30°-40°	297.2	17.5
40°-50°	309.9	18.3
50°-60°	279.9	16.5
60°-70°	210.0	12.4
70°-80°	110.4	6.5
80°-90°	19.9	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°	467.5	27.6
0°-40°	764.7	45.1
0°-60°	1354.6	79.9
0°-90°	1694.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1694.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	599	598	596	606	602	57
15°	584	581	578	584	583	163
25°	536	540	531	542	549	247
35°	476	476	470	481	487	298
45°	406	403	399	402	401	311
55°	314	318	312	312	310	281
65°	216	218	211	214	207	214
75°	109	108	105	99	101	116
85°	16	16	12	11	10	23
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	604.1	604.1	604.1	604.1	604.1
2.5°	602.1	605.1	594.6	603.1	607.6
5°	599.1	597.6	596.1	606.1	602.1
7.5°	590.6	598.6	598.1	597.6	599.1
10°	589.1	593.6	590.6	596.6	595.1
12.5°	584.1	588.6	580.1	587.6	600.1
15°	583.6	581.1	577.6	584.1	582.6
17.5°	563.1	559.1	563.1	571.1	579.1
20°	557.6	560.6	557.1	564.1	556.6
22.5°	546.6	549.1	550.1	549.1	550.6
25°	535.6	539.6	530.6	542.1	548.6
27.5°	521.5	521.0	517.0	523.5	523.5
30°	510.0	509.0	501.5	508.5	509.5
32.5°	491.5	488.0	488.5	488.0	484.5
35°	475.5	475.5	470.0	481.0	487.0
37.5°	458.0	459.0	458.0	459.0	450.0
40°	442.5	442.0	445.5	441.5	440.5
42.5°	421.4	423.4	417.9	423.4	420.4
45°	405.9	403.4	398.9	401.9	400.9
47.5°	380.9	378.9	378.9	381.9	386.4
50°	360.4	364.9	356.9	358.9	356.4
52.5°	337.4	337.4	334.3	337.9	333.8
55°	314.3	317.8	312.3	312.3	310.3
57.5°	290.8	293.3	287.3	289.3	291.3
60°	267.3	264.8	262.3	261.8	259.8
62.5°	245.3	243.3	237.2	236.7	233.7
65°	216.2	217.7	211.2	214.2	206.7
67.5°	188.7	188.2	184.7	183.2	179.2
70°	163.2	164.2	158.2	156.7	152.2
72.5°	137.6	136.1	130.1	127.6	125.1
75°	109.1	107.6	104.6	99.1	100.6
77.5°	83.1	81.1	79.1	73.1	71.6
80°	59.1	56.6	51.6	49.1	48.6
82.5°	35.5	34.0	30.5	27.5	26.0
85°	16.0	15.5	12.5	11.0	10.5
87.5°	4.0	3.5	3.0	3.0	2.5
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	23.0	24.7	23.4	25.0	25.3	22.9	24.6	23.3	24.9	25.2
	3H	24.8	26.3	25.2	26.6	26.9	24.6	26.1	25.0	26.4	26.8
	4H	25.4	26.8	25.8	27.1	27.5	25.1	26.5	25.5	26.9	27.3
	6H	25.8	27.1	26.2	27.4	27.8	25.4	26.7	25.9	27.1	27.5
	8H	25.9	27.1	26.3	27.5	27.9	25.5	26.7	25.9	27.1	27.5
	12H	25.9	27.1	26.3	27.4	27.9	25.5	26.7	25.9	27.1	27.5
4H	2H	23.6	25.0	24.0	25.4	25.7	23.6	24.9	24.0	25.3	25.7
	3H	25.6	26.8	26.0	27.2	27.6	25.4	26.6	25.8	27.0	27.4
	4H	26.3	27.4	26.7	27.8	28.2	26.1	27.1	26.5	27.5	28.0
	6H	26.8	27.7	27.3	28.2	28.6	26.5	27.4	26.9	27.8	28.3
	8H	26.9	27.8	27.4	28.2	28.7	26.5	27.4	27.0	27.8	28.3
	12H	27.0	27.7	27.4	28.2	28.7	26.5	27.3	27.0	27.8	28.3
8H	4H	26.6	27.4	27.0	27.9	28.3	26.3	27.2	26.8	27.6	28.1
	6H	27.1	27.8	27.6	28.3	28.8	26.8	27.5	27.3	28.0	28.5
	8H	27.3	27.9	27.8	28.4	28.9	26.9	27.5	27.4	28.0	28.5
	12H	27.4	27.9	27.9	28.4	29.0	26.9	27.5	27.4	28.0	28.6
12H	4H	26.6	27.3	27.0	27.8	28.3	26.4	27.1	26.8	27.6	28.1
	6H	27.1	27.8	27.7	28.2	28.8	26.8	27.5	27.4	27.9	28.5
	8H	27.3	27.9	27.8	28.4	28.9	27.0	27.5	27.5	28.0	28.6

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