

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: P1219827

Luminaire Tested: SEC2HSSOLMBLK-5000K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219827
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSSOLMBLK-5000K
Description: Solar SEL 1500 5CCT Motion 2H BLK-5000K

Light Source:
Ballast/Driver: -

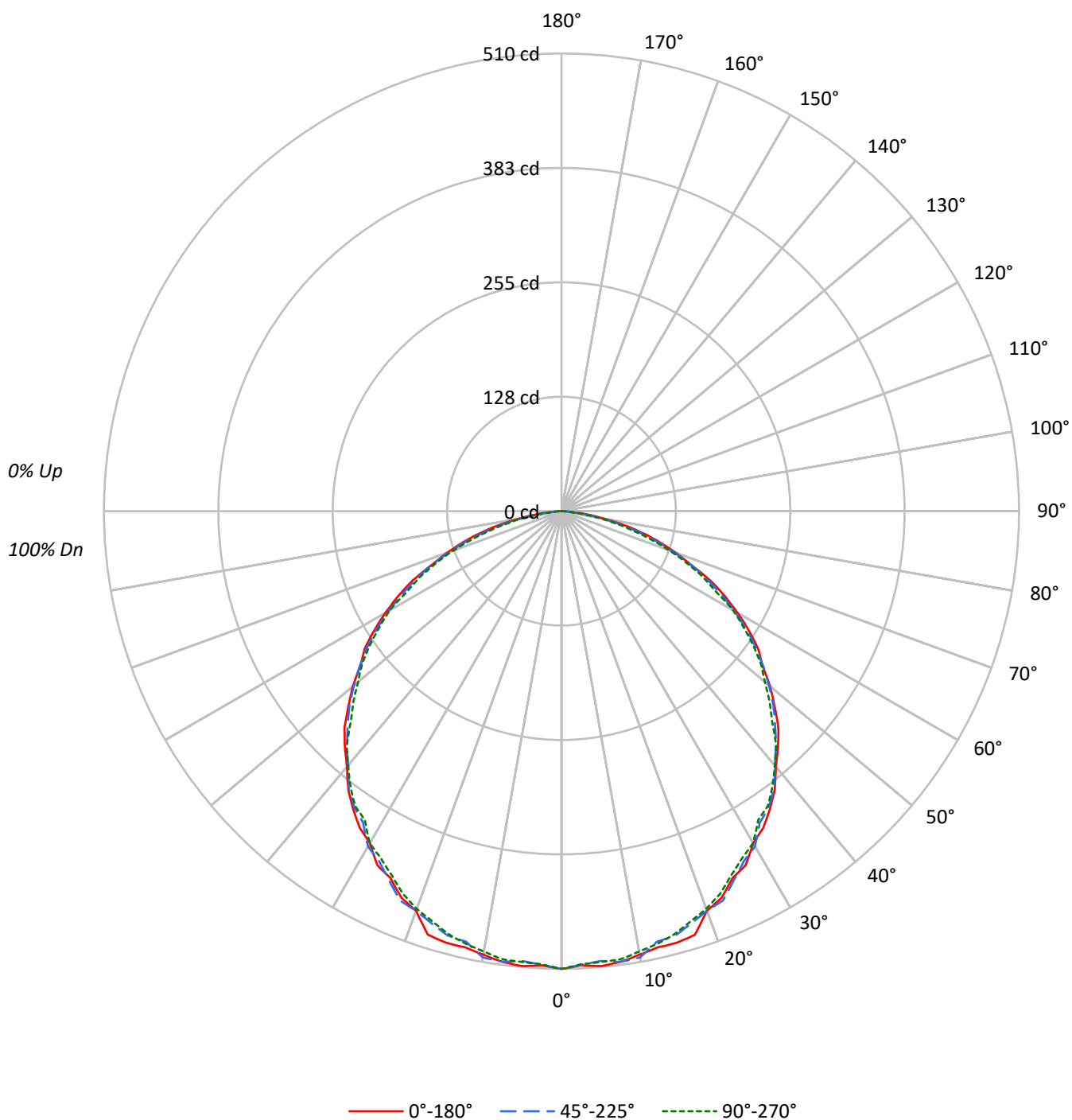
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1422.0 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.75' x H: 0')
CIE Type: Direct

Input Watts (W): 12
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: >0.22
Total Harmonic Distortion (THDi): <33
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	97	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	62	59
4	83	71	62	55	81	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°	29284	29284	29284
5°	29326	28992	29061
10°	29257	29432	29053
15°	29592	29104	28997
20°	28951	28951	28811
25°	28580	28764	28358
30°	28318	28590	28318
35°	28390	28222	28103
40°	27863	27728	27728
45°	27766	27344	26962
50°	27106	26945	26427
55°	26813	26463	26113
60°	26006	25535	25397
65°	24899	24261	23704
70°	22727	22240	21451
75°	20584	19297	17988
80°	15836	14083	13125
85°	8826	6126	4216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 27766 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.1	3.4
10°-20°	137.9	9.7
20°-30°	208.6	14.7
30°-40°	250.7	17.6
40°-50°	259.5	18.2
50°-60°	234.3	16.5
60°-70°	175.4	12.3
70°-80°	91.7	6.4
80°-90°	15.8	1.1
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°	394.6	27.8
0°-40°	645.4	45.4
0°-60°	1139.2	80.1
0°-90°	1422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	509	505	503	504	504	48
15°	498	487	490	479	488	140
25°	451	455	454	446	448	209
35°	405	402	403	397	401	253
45°	342	338	337	334	332	262
55°	268	266	264	259	261	238
65°	183	180	179	173	174	179
75°	93	89	87	82	81	97
85°	13	12	9	8	6	19
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	510.1	510.1	510.1	510.1	510.1
2.5°	506.6	510.7	506.0	504.9	505.4
5°	508.9	505.4	503.1	503.7	504.3
7.5°	506.6	503.7	506.6	501.4	503.7
10°	501.9	500.2	504.9	500.8	498.4
12.5°	497.9	494.9	491.4	492.0	493.8
15°	497.9	486.8	489.7	478.6	487.9
17.5°	494.9	480.3	481.5	485.6	479.2
20°	473.9	472.2	473.9	472.8	471.6
22.5°	466.3	465.8	469.8	459.3	461.7
25°	451.2	454.7	454.1	445.9	447.7
27.5°	444.7	441.8	440.1	441.8	436.0
30°	427.2	430.2	431.3	428.4	427.2
32.5°	418.5	416.7	411.5	411.5	408.0
35°	405.1	402.1	402.7	396.9	401.0
37.5°	390.5	387.0	389.3	380.0	386.4
40°	371.8	373.0	370.0	370.0	370.0
42.5°	357.2	356.0	353.7	348.4	354.3
45°	342.0	338.5	336.8	333.8	332.1
47.5°	322.2	321.0	320.4	314.0	314.6
50°	303.5	302.3	301.7	298.8	295.9
52.5°	281.9	281.3	283.1	279.0	280.2
55°	267.9	265.6	264.4	258.6	260.9
57.5°	247.5	241.6	244.0	238.7	240.5
60°	226.5	224.1	222.4	216.5	221.2
62.5°	205.4	201.4	200.2	196.1	193.8
65°	183.3	179.8	178.6	173.3	174.5
67.5°	155.8	158.8	157.0	151.7	151.2
70°	135.4	135.4	132.5	128.4	127.8
72.5°	114.4	112.6	110.3	106.2	104.5
75°	92.8	89.3	87.0	82.3	81.1
77.5°	70.6	67.7	64.8	60.7	60.1
80°	47.9	46.1	42.6	39.1	39.7
82.5°	29.8	28.0	24.5	21.6	21.6
85°	13.4	12.3	9.3	7.6	6.4
87.5°	2.9	2.3	1.8	1.2	1.2
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	23.6	25.2	24.0	25.6	25.9	23.5	25.1	23.9	25.4	25.8
	3H	25.4	26.8	25.7	27.2	27.5	25.2	26.6	25.6	27.0	27.3
	4H	26.0	27.4	26.4	27.7	28.1	25.7	27.1	26.1	27.4	27.8
	6H	26.4	27.7	26.8	28.0	28.4	26.0	27.3	26.4	27.7	28.0
	8H	26.5	27.7	26.9	28.1	28.5	26.1	27.3	26.5	27.7	28.1
	12H	26.5	27.7	26.9	28.0	28.5	26.1	27.2	26.5	27.6	28.0
4H	2H	24.2	25.6	24.6	26.0	26.3	24.1	25.5	24.5	25.9	26.3
	3H	26.2	27.4	26.6	27.8	28.2	26.0	27.2	26.4	27.6	28.0
	4H	26.9	28.0	27.4	28.4	28.8	26.7	27.7	27.1	28.1	28.5
	6H	27.4	28.3	27.9	28.8	29.2	27.0	27.9	27.5	28.4	28.8
	8H	27.5	28.4	28.0	28.8	29.3	27.1	28.0	27.6	28.4	28.9
	12H	27.6	28.3	28.1	28.8	29.3	27.1	27.9	27.6	28.4	28.8
8H	4H	27.2	28.0	27.6	28.5	28.9	26.9	27.8	27.4	28.2	28.7
	6H	27.7	28.4	28.2	28.9	29.4	27.4	28.1	27.9	28.6	29.0
	8H	27.9	28.5	28.4	29.0	29.5	27.5	28.1	28.0	28.6	29.1
	12H	28.0	28.5	28.5	29.0	29.6	27.5	28.0	28.0	28.5	29.1
12H	4H	27.2	27.9	27.7	28.4	28.9	26.9	27.7	27.4	28.2	28.7
	6H	27.7	28.4	28.3	28.8	29.4	27.4	28.0	27.9	28.5	29.0
	8H	27.9	28.5	28.4	29.0	29.5	27.5	28.1	28.0	28.6	29.1

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