

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: P1219826

Luminaire Tested: SEC2HSSOLMBLK-4000K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219826
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSSOLMBLK-4000K
Description: Solar SEL 1500 5CCT Motion 2H BLK-4000K

Light Source:
Ballast/Driver: -

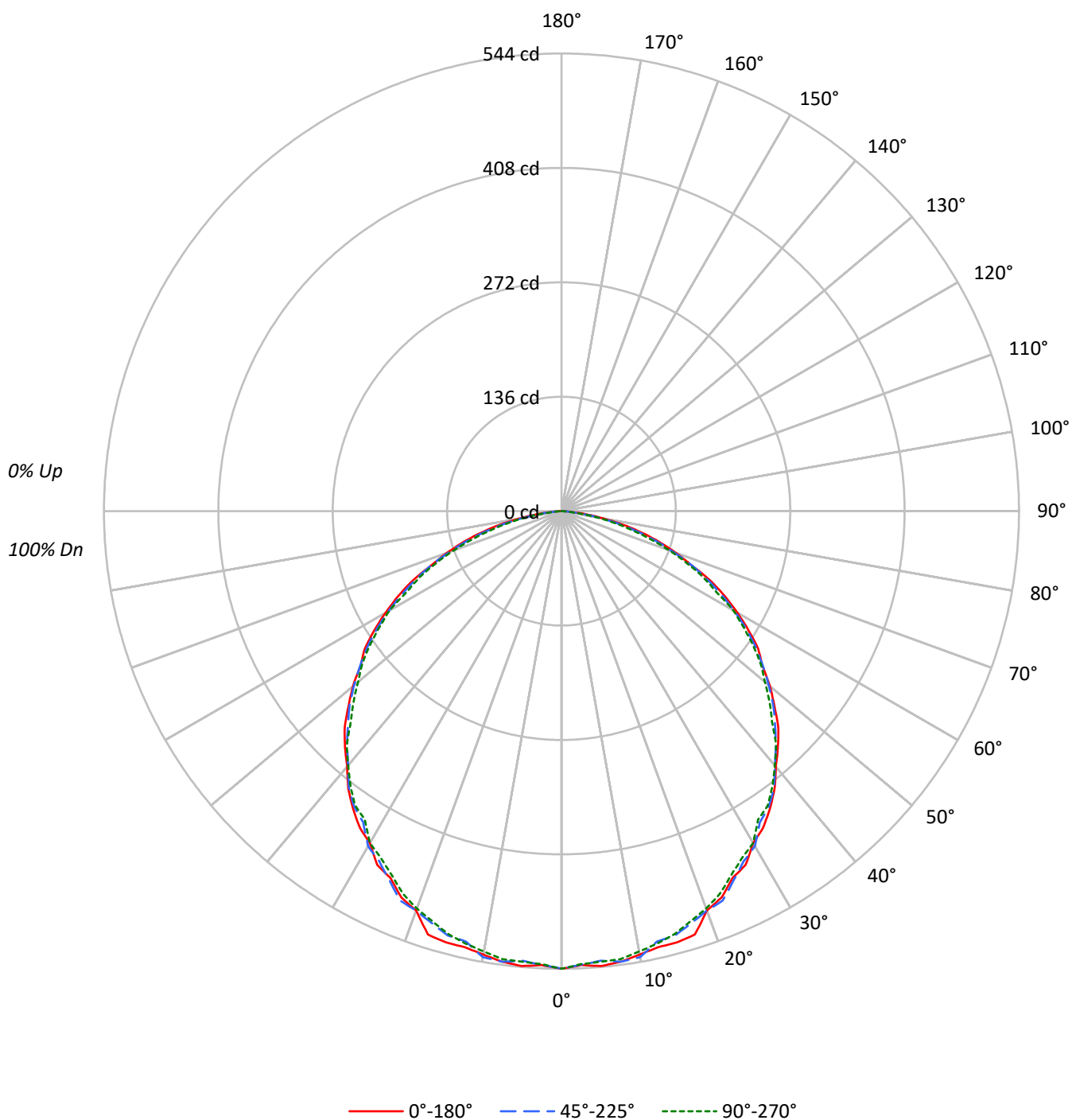
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1516.3 lumens
Efficiency: N/A
Efficacy: 126.4 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: >0.16
Total Harmonic Distortion (THDi): <27
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	97	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	63		70
4	83	71	62	55	81	70	61	55	67	60	54		65	59	54		63
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	41	54	47	41		53	46	41		51
7	65	52	43	37	63	51	42	37	49	42	36		48	41	36		46
8	61	47	39	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	27		37	31	26		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31224	31224	31224
5°	31274	30911	30986
10°	31198	31379	30983
15°	31547	31030	30923
20°	30870	30870	30717
25°	30474	30670	30233
30°	30194	30486	30194
35°	30268	30093	29960
40°	29706	29571	29571
45°	29609	29154	28748
50°	28901	28731	28177
55°	28585	28215	27844
60°	27728	27223	27085
65°	26543	25864	25279
70°	24237	23717	22878
75°	21937	20561	19186
80°	16860	15009	13984
85°	9419	6587	4479

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 29609 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	3.4
10°-20°	147.1	9.7
20°-30°	222.4	14.7
30°-40°	267.3	17.6
40°-50°	276.7	18.3
50°-60°	249.8	16.5
60°-70°	187.0	12.3
70°-80°	97.8	6.4
80°-90°	16.8	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°	420.8	27.8
0°-40°	688.1	45.4
0°-60°	1214.6	80.1
0°-90°	1516.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1516.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	544	544	544	544	544	
5°	543	539	536	537	538	52
15°	531	519	522	510	520	149
25°	481	485	484	476	477	223
35°	432	429	429	423	428	269
45°	365	361	359	356	354	280
55°	286	283	282	276	278	253
65°	195	192	190	185	186	191
75°	99	95	93	88	86	104
85°	14	13	10	8	7	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	543.9	543.9	543.9	543.9	543.9
2.5°	540.2	544.5	539.6	538.3	538.9
5°	542.7	538.9	536.4	537.1	537.7
7.5°	540.2	537.1	540.2	534.6	537.1
10°	535.2	533.3	538.3	534.0	531.5
12.5°	530.8	527.7	524.0	524.6	526.5
15°	530.8	519.0	522.1	510.3	520.3
17.5°	527.7	512.2	513.4	517.8	510.9
20°	505.3	503.5	505.3	504.1	502.8
22.5°	497.2	496.6	501.0	489.8	492.3
25°	481.1	484.8	484.2	475.5	477.3
27.5°	474.2	471.1	469.2	471.1	464.9
30°	455.5	458.7	459.9	456.8	455.5
32.5°	446.2	444.3	438.7	438.7	435.0
35°	431.9	428.8	429.4	423.2	427.5
37.5°	416.3	412.6	415.1	405.1	412.0
40°	396.4	397.7	394.6	394.6	394.6
42.5°	380.9	379.6	377.1	371.5	377.7
45°	364.7	360.9	359.1	356.0	354.1
47.5°	343.5	342.3	341.7	334.8	335.4
50°	323.6	322.4	321.7	318.6	315.5
52.5°	300.6	300.0	301.8	297.5	298.7
55°	285.6	283.2	281.9	275.7	278.2
57.5°	263.9	257.6	260.1	254.5	256.4
60°	241.5	239.0	237.1	230.9	235.9
62.5°	219.1	214.7	213.5	209.1	206.6
65°	195.4	191.7	190.4	184.8	186.1
67.5°	166.2	169.3	167.4	161.8	161.2
70°	144.4	144.4	141.3	136.9	136.3
72.5°	122.0	120.1	117.6	113.3	111.4
75°	98.9	95.2	92.7	87.7	86.5
77.5°	75.3	72.2	69.1	64.7	64.1
80°	51.0	49.2	45.4	41.7	42.3
82.5°	31.7	29.9	26.1	23.0	23.0
85°	14.3	13.1	10.0	8.1	6.8
87.5°	3.1	2.5	1.9	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	23.8	25.5	24.2	25.8	26.1	23.7	25.3	24.1	25.7	26.0
	3H	25.6	27.1	26.0	27.4	27.8	25.4	26.9	25.8	27.2	27.6
	4H	26.2	27.6	26.6	27.9	28.3	25.9	27.3	26.3	27.7	28.0
	6H	26.6	27.9	27.0	28.2	28.6	26.2	27.5	26.6	27.9	28.3
	8H	26.7	27.9	27.1	28.3	28.7	26.3	27.5	26.7	27.9	28.3
	12H	26.7	27.9	27.1	28.3	28.7	26.3	27.4	26.7	27.8	28.3
4H	2H	24.5	25.8	24.9	26.2	26.6	24.4	25.8	24.8	26.1	26.5
	3H	26.4	27.6	26.8	28.0	28.4	26.2	27.4	26.7	27.8	28.2
	4H	27.1	28.2	27.6	28.6	29.0	26.9	27.9	27.3	28.3	28.8
	6H	27.6	28.5	28.1	29.0	29.4	27.3	28.2	27.7	28.6	29.1
	8H	27.7	28.6	28.2	29.0	29.5	27.3	28.2	27.8	28.6	29.1
	12H	27.8	28.6	28.3	29.0	29.5	27.3	28.1	27.8	28.6	29.0
8H	4H	27.4	28.2	27.9	28.7	29.2	27.1	28.0	27.6	28.4	28.9
	6H	28.0	28.7	28.4	29.1	29.6	27.6	28.3	28.1	28.8	29.3
	8H	28.1	28.7	28.6	29.2	29.7	27.7	28.3	28.2	28.8	29.3
	12H	28.2	28.7	28.7	29.2	29.8	27.7	28.3	28.2	28.8	29.3
12H	4H	27.4	28.2	27.9	28.6	29.1	27.2	27.9	27.6	28.4	28.9
	6H	28.0	28.6	28.5	29.1	29.6	27.6	28.3	28.1	28.7	29.3
	8H	28.1	28.7	28.7	29.2	29.8	27.7	28.3	28.2	28.8	29.3

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