

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: P1219828

Luminaire Tested: SEC2HSSOLMBLK-6500K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219828
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSSOLMBLK-6500K
Description: Solar SEL 1500 5CCT Motion 2H BLK-6500K

Light Source:
Ballast/Driver: -

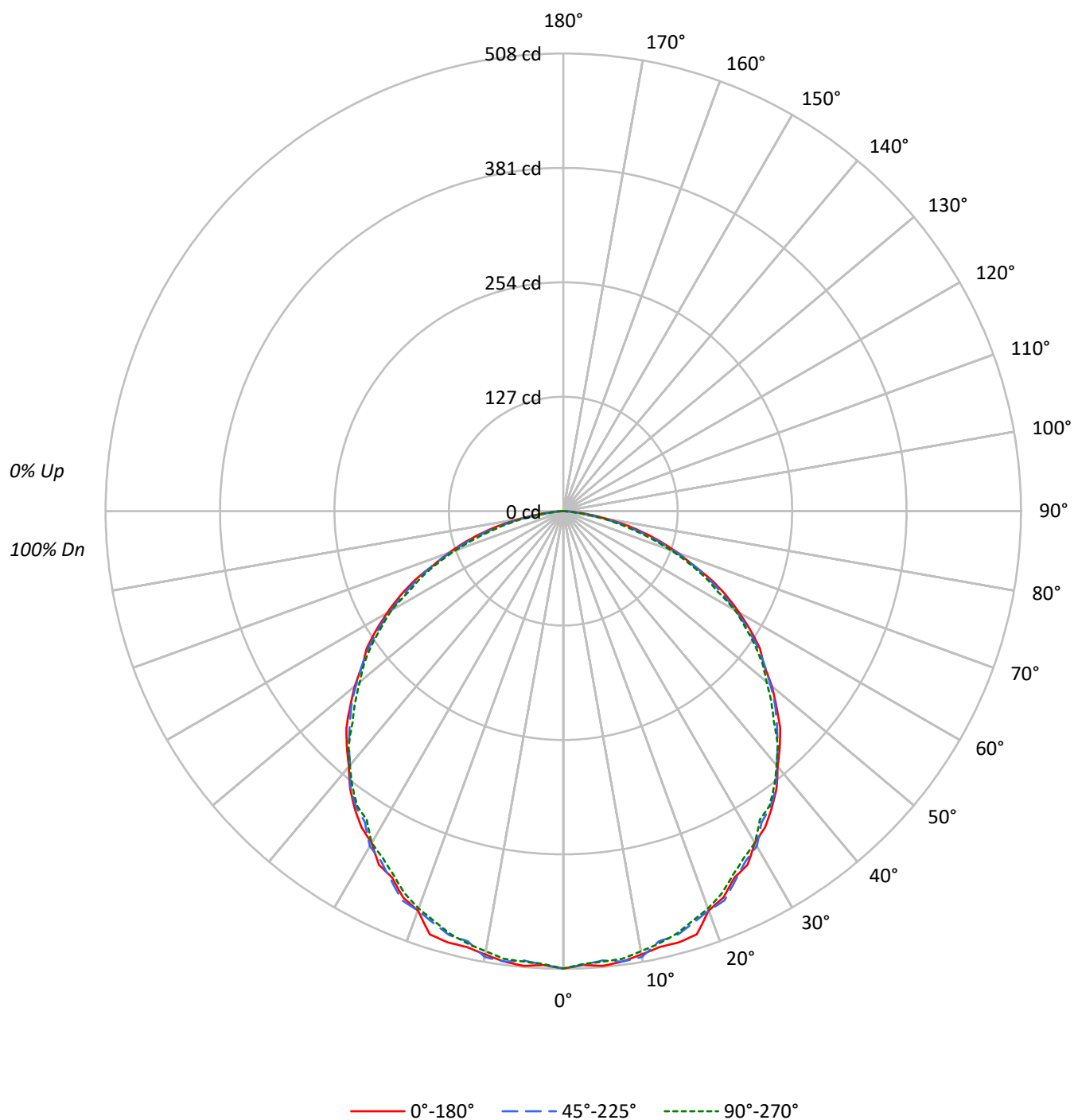
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1415.4 lumens
Efficiency: N/A
Efficacy: 117.9 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: >0.28
Total Harmonic Distortion (THDi): <39
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°	29146	29146	29146
5°	29194	28860	28923
10°	29123	29292	28919
15°	29449	28967	28866
20°	28817	28817	28677
25°	28447	28631	28225
30°	28186	28458	28186
35°	28257	28089	27970
40°	27735	27600	27600
45°	27636	27214	26832
50°	26981	26820	26302
55°	26683	26343	25993
60°	25879	25409	25282
65°	24777	24152	23595
70°	22626	22139	21350
75°	20495	19208	17900
80°	15736	14017	13059
85°	8826	6126	4216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 27636 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	3.4
10°-20°	137.3	9.7
20°-30°	207.6	14.7
30°-40°	249.5	17.6
40°-50°	258.3	18.2
50°-60°	233.2	16.5
60°-70°	174.6	12.3
70°-80°	91.3	6.5
80°-90°	15.7	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°	392.8	27.8
0°-40°	642.3	45.4
0°-60°	1133.8	80.1
0°-90°	1415.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1415.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	508	508	508	508	508	
5°	507	503	501	501	502	48
15°	496	484	487	476	486	139
25°	449	452	452	444	446	208
35°	403	400	401	395	399	252
45°	340	337	335	332	330	261
55°	267	264	263	257	260	237
65°	182	179	178	172	174	179
75°	92	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°	507.7	507.7	507.7	507.7	507.7
2.5°	504.2	508.3	503.7	502.5	503.1
5°	506.6	503.1	500.8	501.3	501.9
7.5°	504.2	501.3	504.2	499.0	501.3
10°	499.6	497.9	502.5	498.4	496.1
12.5°	495.5	492.6	489.1	489.7	491.5
15°	495.5	484.5	487.4	476.4	485.7
17.5°	492.6	478.1	479.3	483.3	476.9
20°	471.7	470.0	471.7	470.6	469.4
22.5°	464.2	463.6	467.6	457.2	459.5
25°	449.1	452.5	452.0	443.8	445.6
27.5°	442.7	439.8	438.0	439.8	434.0
30°	425.2	428.1	429.3	426.4	425.2
32.5°	416.5	414.8	409.6	409.6	406.1
35°	403.2	400.3	400.8	395.0	399.1
37.5°	388.6	385.2	387.5	378.2	384.6
40°	370.1	371.2	368.3	368.3	368.3
42.5°	355.5	354.4	352.0	346.8	352.6
45°	340.4	336.9	335.2	332.3	330.5
47.5°	320.7	319.5	318.9	312.5	313.1
50°	302.1	300.9	300.3	297.4	294.5
52.5°	280.6	280.0	281.7	277.7	278.8
55°	266.6	264.3	263.2	257.4	259.7
57.5°	246.3	240.5	242.8	237.6	239.3
60°	225.4	223.1	221.3	215.5	220.2
62.5°	204.5	200.4	199.3	195.2	192.9
65°	182.4	178.9	177.8	172.5	173.7
67.5°	155.1	158.0	156.3	151.0	150.5
70°	134.8	134.8	131.9	127.8	127.2
72.5°	113.9	112.1	109.8	105.7	104.0
75°	92.4	88.9	86.6	81.9	80.7
77.5°	70.3	67.4	64.5	60.4	59.8
80°	47.6	45.9	42.4	38.9	39.5
82.5°	29.6	27.9	24.4	21.5	21.5
85°	13.4	12.2	9.3	7.6	6.4
87.5°	2.9	2.3	1.7	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	25.5	25.9	23.5	25.1	23.8	25.4	25.7
	3H	25.4	26.8	25.7	27.2	27.5	25.2	26.6	25.5	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	27.6	26.8	28.0	28.4	26.0	27.3	26.4	27.6	28.0
	8H	26.4	27.7	26.9	28.1	28.5	26.0	27.3	26.5	27.7	28.0
	12H	26.5	27.6	26.9	28.0	28.5	26.0	27.2	26.5	27.6	28.0
4H	2H	24.2	25.6	24.6	25.9	26.3	24.1	25.5	24.5	25.9	26.2
	3H	26.2	27.3	26.6	27.7	28.1	26.0	27.2	26.4	27.6	28.0
	4H	26.9	28.0	27.3	28.4	28.8	26.6	27.7	27.1	28.1	28.5
	6H	27.4	28.3	27.8	28.7	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	27.9	27.5	28.4	28.8
	12H	27.6	28.3	28.0	28.8	29.3	27.1	27.9	27.6	28.3	28.8
8H	4H	27.2	28.0	27.6	28.4	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	27.8	28.5	29.0
	8H	27.9	28.5	28.4	29.0	29.5	27.4	28.1	28.0	28.6	29.1
	12H	27.9	28.5	28.5	29.0	29.6	27.5	28.0	28.0	28.5	29.1
12H	4H	27.2	27.9	27.6	28.4	28.9	26.9	27.7	27.4	28.2	28.6
	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	28.5	29.1

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