

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: P1219816

Luminaire Tested: SEC1HSSOLMBLK-4000K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219816
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC1HSSOLMBLK-4000K
Description: Solar SEL 1000 5CCT Motion 1H BLK-4000K

Light Source:
Ballast/Driver: -

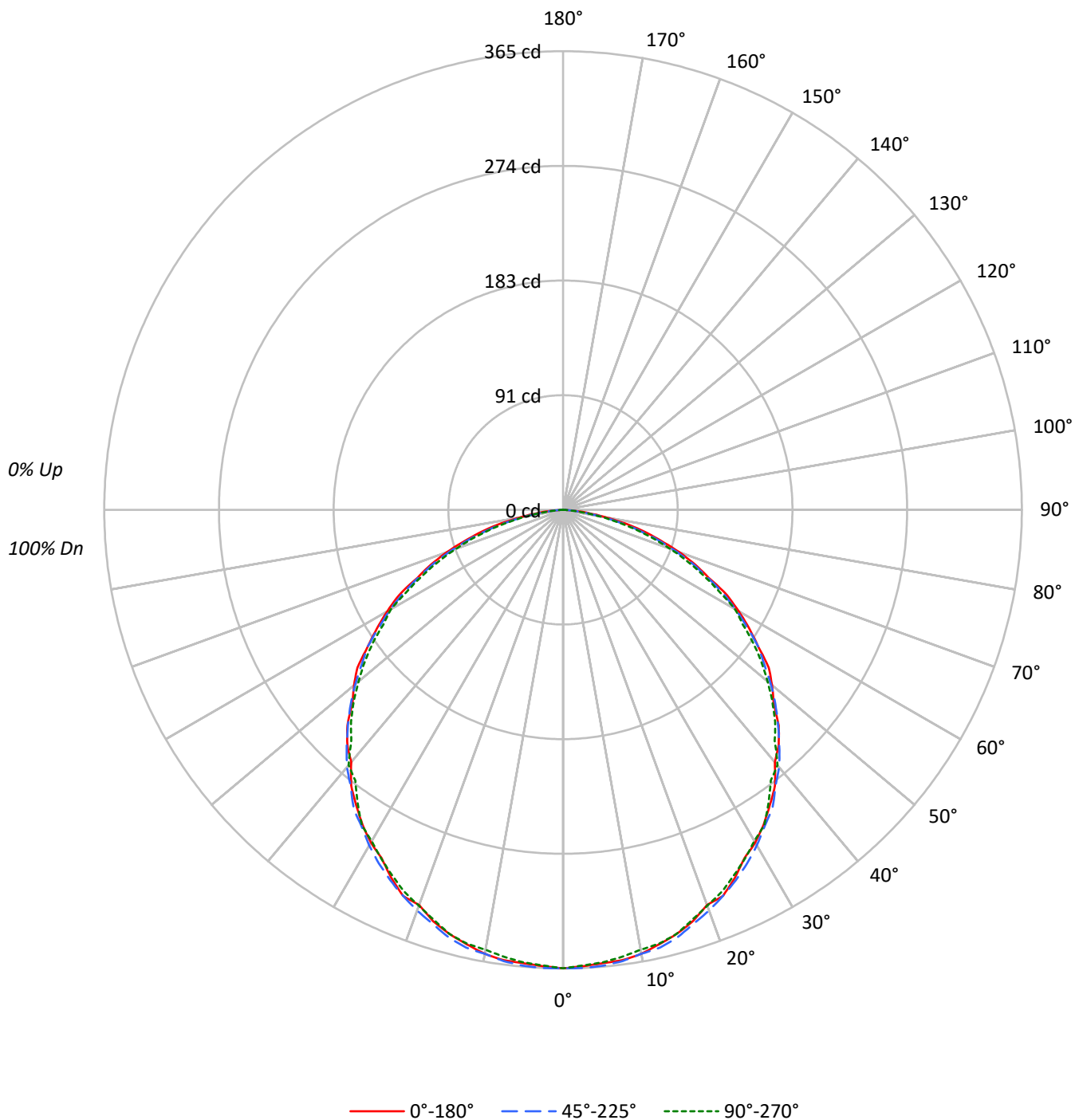
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1017.8 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: >0.15
Total Harmonic Distortion (THDi): <26
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	63		70
4	83	71	62	55	80	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°	37407	37407	37407
5°	37272	37478	37200
10°	37349	37349	37006
15°	37082	37368	37082
20°	36502	37026	36579
25°	36558	36784	36331
30°	36198	36506	36033
35°	35904	36330	35654
40°	35075	35784	35516
45°	35171	35070	34591
50°	34608	34400	33858
55°	33869	33869	33029
60°	33071	32517	32374
65°	30976	30636	29836
70°	29403	28205	27185
75°	26617	24478	23408
80°	20603	18242	17061
85°	11880	8704	7881

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 47.5°

Luminance: 35173 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.5	3.4
10°-20°	98.6	9.7
20°-30°	149.1	14.6
30°-40°	179.6	17.6
40°-50°	185.9	18.3
50°-60°	167.6	16.5
60°-70°	125.0	12.3
70°-80°	65.7	6.5
80°-90°	11.8	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°	282.2	27.7
0°-40°	461.8	45.4
0°-60°	815.3	80.1
0°-90°	1017.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1017.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	365	365	365	365	365	
5°	362	364	364	362	362	35
15°	349	349	352	349	349	98
25°	323	321	325	325	321	149
35°	287	288	290	286	285	179
45°	243	241	242	238	239	186
55°	190	189	190	186	185	170
65°	128	129	126	124	123	128
75°	67	64	62	59	59	70
85°	10	9	7	7	7	14
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	364.9	364.9	364.9	364.9	364.9
2.5°	363.5	363.5	364.9	362.2	362.9
5°	362.2	363.5	364.2	361.5	361.5
7.5°	361.5	360.2	362.2	361.5	358.8
10°	358.8	357.5	358.8	356.8	355.5
12.5°	354.1	352.1	356.8	355.5	353.5
15°	349.4	349.4	352.1	348.8	349.4
17.5°	343.4	346.1	345.4	342.7	342.0
20°	334.6	337.3	339.4	338.0	335.3
22.5°	332.6	331.3	332.6	332.0	329.3
25°	323.2	321.2	325.2	324.6	321.2
27.5°	312.5	315.8	317.2	314.5	313.1
30°	305.8	307.1	308.4	305.8	304.4
32.5°	297.0	297.0	298.4	295.0	297.7
35°	286.9	287.6	290.3	285.6	284.9
37.5°	276.9	279.5	277.5	274.2	271.5
40°	262.1	267.4	267.4	264.8	265.4
42.5°	254.0	254.7	254.7	252.7	249.3
45°	242.6	241.2	241.9	237.9	238.6
47.5°	227.1	231.8	229.1	226.5	225.8
50°	217.0	217.7	215.7	212.3	212.3
52.5°	206.3	203.6	201.6	199.6	198.9
55°	189.5	188.8	189.5	186.1	184.8
57.5°	175.4	175.4	173.4	170.0	169.3
60°	161.3	160.6	158.6	155.2	157.9
62.5°	147.2	143.8	143.1	139.1	139.1
65°	127.7	129.0	126.3	124.3	123.0
67.5°	113.6	113.6	110.9	107.5	106.8
70°	98.1	96.8	94.1	91.4	90.7
72.5°	81.3	80.6	77.9	75.3	74.6
75°	67.2	64.5	61.8	59.1	59.1
77.5°	51.1	49.1	45.7	43.7	43.0
80°	34.9	33.6	30.9	29.6	28.9
82.5°	21.5	20.2	17.5	16.1	15.5
85°	10.1	8.7	7.4	6.7	6.7
87.5°	2.0	2.0	2.0	1.3	2.0
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	24.5	26.2	24.9	26.5	26.8	24.3	25.9	24.7	26.2	26.6
	3H	26.3	27.8	26.7	28.1	28.4	26.0	27.4	26.3	27.8	28.1
	4H	26.9	28.3	27.3	28.6	29.0	26.5	27.9	26.9	28.3	28.6
	6H	27.3	28.6	27.7	28.9	29.3	26.8	28.1	27.2	28.5	28.9
	8H	27.4	28.6	27.8	29.0	29.4	26.9	28.1	27.3	28.5	28.9
	12H	27.4	28.6	27.8	29.0	29.4	26.9	28.1	27.3	28.4	28.9
4H	2H	25.1	26.5	25.5	26.9	27.2	24.9	26.3	25.3	26.7	27.1
	3H	27.1	28.2	27.5	28.6	29.0	26.8	28.0	27.2	28.4	28.8
	4H	27.8	28.9	28.2	29.3	29.7	27.5	28.5	27.9	28.9	29.4
	6H	28.3	29.2	28.8	29.7	30.1	27.9	28.8	28.3	29.2	29.7
	8H	28.4	29.3	28.9	29.7	30.2	27.9	28.8	28.4	29.2	29.7
	12H	28.5	29.2	29.0	29.7	30.2	28.0	28.7	28.4	29.2	29.7
8H	4H	28.0	28.9	28.5	29.3	29.8	27.7	28.6	28.2	29.0	29.5
	6H	28.6	29.3	29.1	29.8	30.3	28.2	28.9	28.7	29.4	29.9
	8H	28.8	29.4	29.3	29.9	30.4	28.3	28.9	28.8	29.4	29.9
	12H	28.9	29.4	29.4	29.9	30.5	28.4	28.9	28.9	29.4	30.0
12H	4H	28.1	28.8	28.5	29.3	29.8	27.8	28.5	28.2	29.0	29.5
	6H	28.6	29.3	29.2	29.7	30.3	28.2	28.9	28.8	29.3	29.9
	8H	28.8	29.4	29.3	29.9	30.4	28.4	28.9	28.9	29.4	30.0

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