

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: P1219817

Luminaire Tested: SEC1HSSOLMBLK-5000K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219817
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC1HSSOLMBLK-5000K
Description: Solar SEL 1000 5CCT Motion 1H BLK-5000K

Light Source:
Ballast/Driver: -

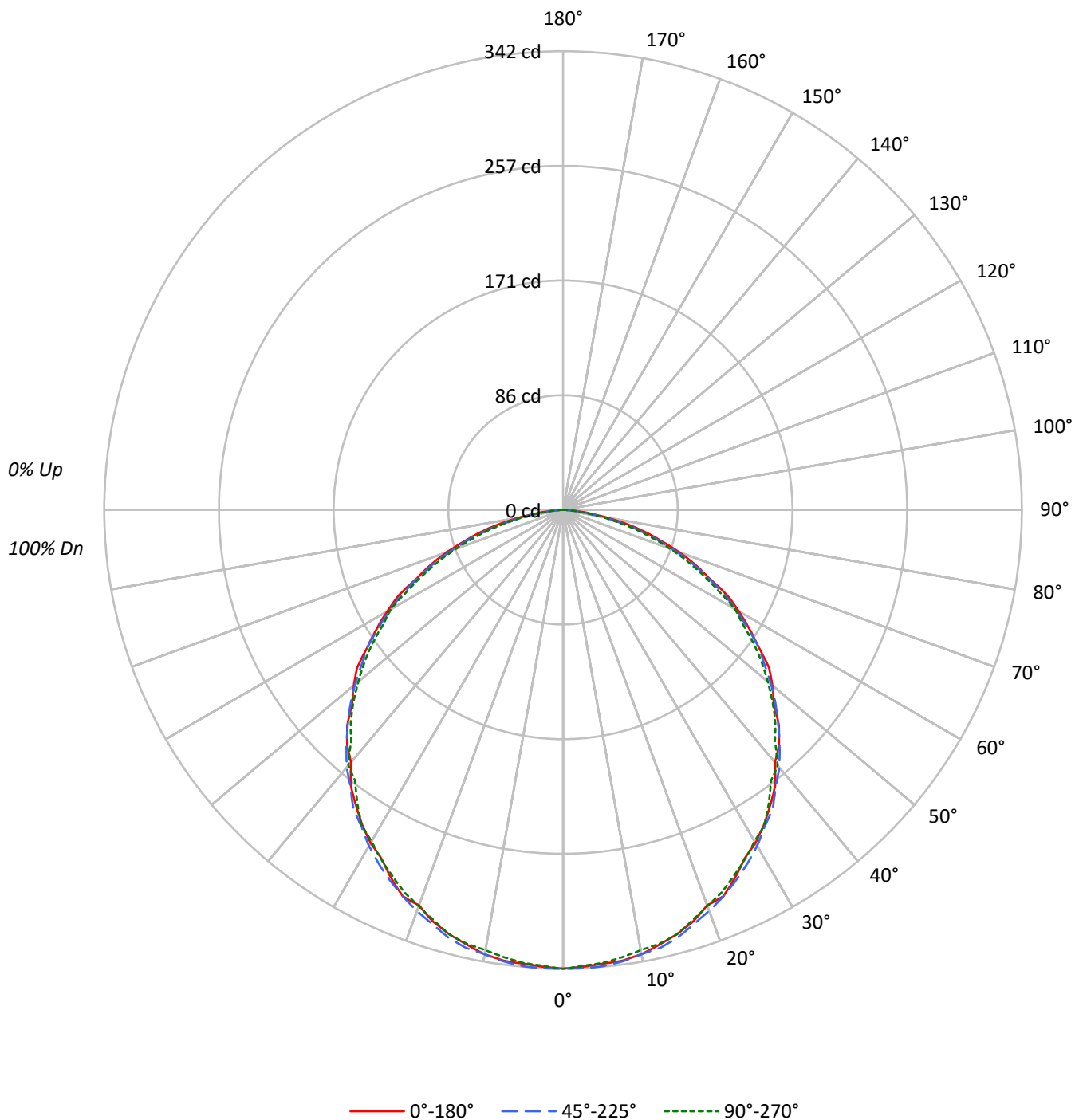
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 954.6 lumens
Efficiency: N/A
Efficacy: 119.3 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: >0.21
Total Harmonic Distortion (THDi): <32
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: SEC1HSSOLMBLK-5000K

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°	35080	35080	35080
5°	34957	35152	34895
10°	35028	35028	34705
15°	34779	35044	34779
20°	34244	34724	34310
25°	34284	34499	34069
30°	33949	34245	33795
35°	33677	34077	33439
40°	32893	33563	33308
45°	32982	32895	32431
50°	32471	32263	31769
55°	31760	31760	30973
60°	31021	30488	30364
65°	29035	28744	27968
70°	27575	26436	25507
75°	24953	22973	21983
80°	19364	17120	15999
85°	11174	8116	7410

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 47.5°

Luminance: 32988 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	3.4
10°-20°	92.5	9.7
20°-30°	139.8	14.6
30°-40°	168.5	17.6
40°-50°	174.3	18.3
50°-60°	157.2	16.5
60°-70°	117.2	12.3
70°-80°	61.6	6.5
80°-90°	11.1	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°	264.7	27.7
0°-40°	433.1	45.4
0°-60°	764.6	80.1
0°-90°	954.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	954.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	342	342	342	342	342	
5°	340	341	342	339	339	32
15°	328	328	330	327	328	92
25°	303	301	305	304	301	139
35°	269	270	272	268	267	168
45°	228	226	227	223	224	174
55°	178	177	178	175	173	159
65°	120	121	118	117	115	120
75°	63	60	58	56	56	66
85°	10	8	7	6	6	13
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	342.2	342.2	342.2	342.2	342.2
2.5°	341.0	341.0	342.2	339.7	340.3
5°	339.7	341.0	341.6	339.1	339.1
7.5°	339.1	337.8	339.7	339.1	336.5
10°	336.5	335.3	336.5	334.6	333.4
12.5°	332.1	330.2	334.6	333.4	331.5
15°	327.7	327.7	330.2	327.1	327.7
17.5°	322.0	324.6	323.9	321.4	320.8
20°	313.9	316.4	318.3	317.0	314.5
22.5°	312.0	310.7	312.0	311.3	308.8
25°	303.1	301.2	305.0	304.4	301.2
27.5°	293.1	296.2	297.5	294.9	293.7
30°	286.8	288.0	289.3	286.8	285.5
32.5°	278.6	278.6	279.8	276.7	279.2
35°	269.1	269.7	272.3	267.8	267.2
37.5°	259.7	262.2	260.3	257.1	254.6
40°	245.8	250.8	250.8	248.3	248.9
42.5°	238.2	238.9	238.9	237.0	233.8
45°	227.5	226.3	226.9	223.1	223.7
47.5°	213.0	217.4	214.9	212.4	211.8
50°	203.6	204.2	202.3	199.2	199.2
52.5°	193.5	191.0	189.1	187.2	186.5
55°	177.7	177.1	177.7	174.6	173.3
57.5°	164.5	164.5	162.6	159.4	158.8
60°	151.3	150.6	148.7	145.6	148.1
62.5°	138.0	134.9	134.2	130.5	130.5
65°	119.7	121.0	118.5	116.6	115.3
67.5°	106.5	106.5	104.0	100.8	100.2
70°	92.0	90.8	88.2	85.7	85.1
72.5°	76.3	75.6	73.1	70.6	70.0
75°	63.0	60.5	58.0	55.5	55.5
77.5°	47.9	46.0	42.9	41.0	40.3
80°	32.8	31.5	29.0	27.7	27.1
82.5°	20.2	18.9	16.4	15.1	14.5
85°	9.5	8.2	6.9	6.3	6.3
87.5°	1.9	1.9	1.9	1.3	1.9
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	24.3	25.9	24.7	26.2	26.6	24.1	25.7	24.4	26.0	26.3
	3H	26.1	27.5	26.4	27.9	28.2	25.7	27.2	26.1	27.5	27.9
	4H	26.7	28.1	27.1	28.4	28.8	26.3	27.7	26.7	28.0	28.4
	6H	27.1	28.3	27.5	28.7	29.1	26.6	27.9	27.0	28.3	28.6
	8H	27.2	28.4	27.6	28.8	29.2	26.7	27.9	27.1	28.3	28.7
	12H	27.2	28.4	27.6	28.7	29.2	26.7	27.8	27.1	28.2	28.6
4H	2H	24.9	26.3	25.3	26.6	27.0	24.7	26.1	25.1	26.5	26.8
	3H	26.9	28.0	27.3	28.4	28.8	26.6	27.7	27.0	28.1	28.5
	4H	27.6	28.6	28.0	29.0	29.5	27.2	28.3	27.7	28.7	29.1
	6H	28.1	29.0	28.5	29.4	29.9	27.6	28.6	28.1	29.0	29.5
	8H	28.2	29.0	28.7	29.5	30.0	27.7	28.6	28.2	29.0	29.5
	12H	28.3	29.0	28.7	29.5	30.0	27.7	28.5	28.2	29.0	29.4
8H	4H	27.8	28.7	28.3	29.1	29.6	27.5	28.4	28.0	28.8	29.3
	6H	28.4	29.1	28.9	29.6	30.1	28.0	28.7	28.5	29.2	29.7
	8H	28.6	29.2	29.1	29.7	30.2	28.1	28.7	28.6	29.2	29.7
	12H	28.6	29.2	29.1	29.7	30.2	28.1	28.7	28.6	29.2	29.7
12H	4H	27.8	28.6	28.3	29.1	29.5	27.5	28.3	28.0	28.8	29.2
	6H	28.4	29.1	28.9	29.5	30.1	28.0	28.7	28.5	29.1	29.7
	8H	28.6	29.2	29.1	29.6	30.2	28.1	28.7	28.6	29.2	29.8

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