

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: P1219814

Luminaire Tested: SEC1HSSOLMBLK-2700K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219814
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC1HSSOLMBLK-2700K
Description: Solar SEL 1000 5CCT Motion 1H BLK-2700K

Light Source:
Ballast/Driver: -

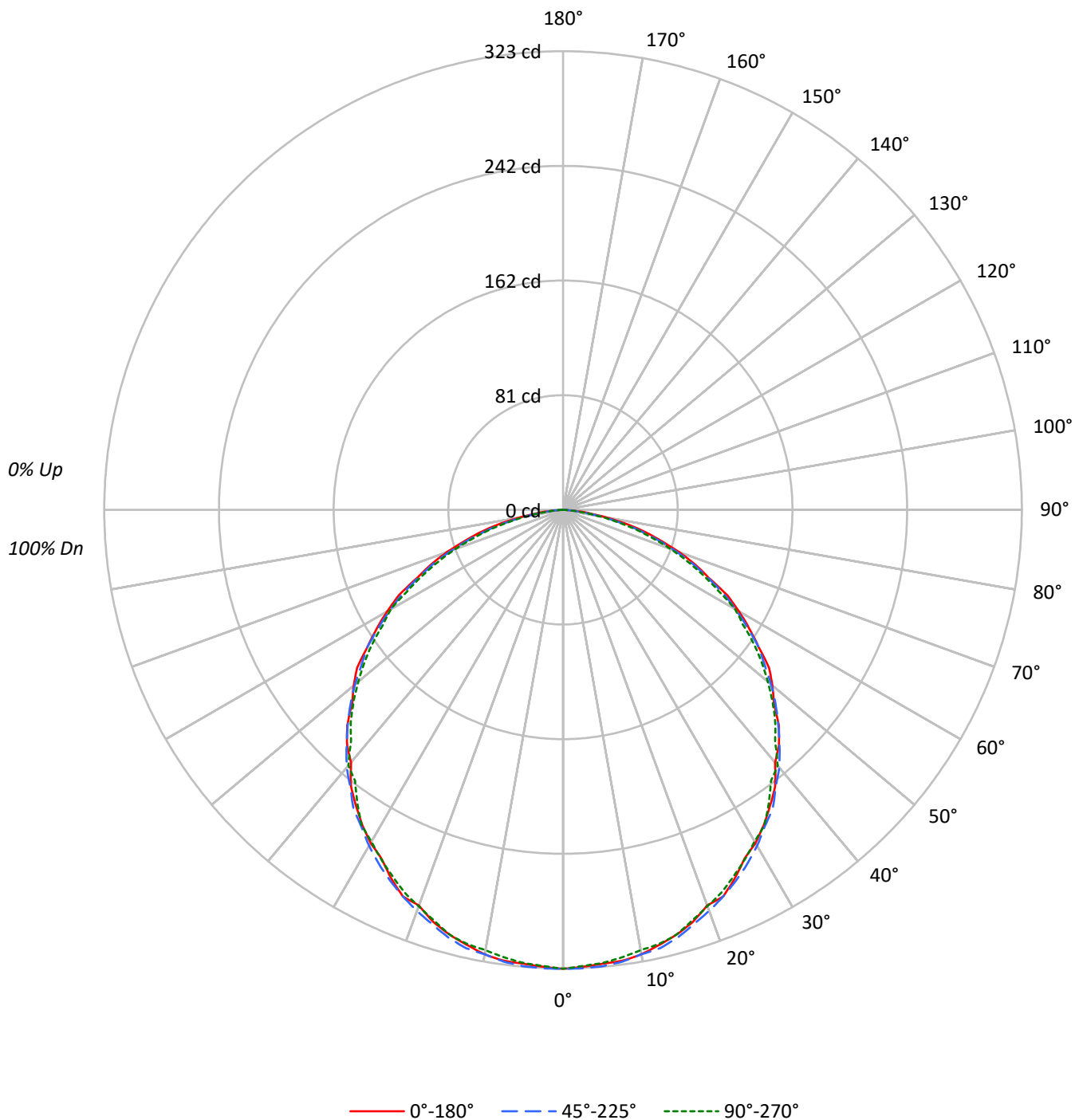
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 901.7 lumens
Efficiency: N/A
Efficacy: 112.7 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: >0.9
Total Harmonic Distortion (THDi): <20
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	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	61	59		
4	83	71	62	55	80	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°	33132	33132	33132
5°	33022	33197	32960
10°	33092	33092	32779
15°	32858	33102	32858
20°	32346	32793	32411
25°	32384	32587	32180
30°	32067	32339	31925
35°	31812	32188	31587
40°	31073	31702	31462
45°	31155	31068	30633
50°	30669	30477	29999
55°	30008	30008	29258
60°	29298	28806	28683
65°	27434	27143	26416
70°	26046	24967	24098
75°	23567	21705	20755
80°	18301	16176	15113
85°	10468	7645	7057

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 47.5°

Luminance: 31167 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.5	3.4
10°-20°	87.4	9.7
20°-30°	132.1	14.6
30°-40°	159.1	17.6
40°-50°	164.7	18.3
50°-60°	148.5	16.5
60°-70°	110.7	12.3
70°-80°	58.2	6.5
80°-90°	10.5	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°	250.0	27.7
0°-40°	409.1	45.4
0°-60°	722.2	80.1
0°-90°	901.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	901.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	323	323	323	323	323	
5°	321	322	323	320	320	31
15°	310	310	312	309	310	87
25°	286	284	288	288	284	132
35°	254	255	257	253	252	159
45°	215	214	214	211	211	165
55°	168	167	168	165	164	151
65°	113	114	112	110	109	114
75°	60	57	55	52	52	62
85°	9	8	6	6	6	12
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	323.2	323.2	323.2	323.2	323.2
2.5°	322.1	322.1	323.2	320.9	321.5
5°	320.9	322.1	322.6	320.3	320.3
7.5°	320.3	319.1	320.9	320.3	317.9
10°	317.9	316.7	317.9	316.1	314.9
12.5°	313.7	311.9	316.1	314.9	313.1
15°	309.6	309.6	311.9	309.0	309.6
17.5°	304.2	306.6	306.0	303.6	303.0
20°	296.5	298.8	300.6	299.4	297.1
22.5°	294.7	293.5	294.7	294.1	291.7
25°	286.3	284.5	288.1	287.5	284.5
27.5°	276.8	279.8	281.0	278.6	277.4
30°	270.9	272.0	273.2	270.9	269.7
32.5°	263.1	263.1	264.3	261.3	263.7
35°	254.2	254.8	257.2	253.0	252.4
37.5°	245.3	247.6	245.9	242.9	240.5
40°	232.2	236.9	236.9	234.5	235.1
42.5°	225.0	225.6	225.6	223.8	220.9
45°	214.9	213.7	214.3	210.7	211.3
47.5°	201.2	205.4	203.0	200.6	200.0
50°	192.3	192.9	191.1	188.1	188.1
52.5°	182.8	180.4	178.6	176.8	176.2
55°	167.9	167.3	167.9	164.9	163.7
57.5°	155.4	155.4	153.6	150.6	150.0
60°	142.9	142.3	140.5	137.5	139.9
62.5°	130.4	127.4	126.8	123.2	123.2
65°	113.1	114.3	111.9	110.1	108.9
67.5°	100.6	100.6	98.2	95.2	94.7
70°	86.9	85.7	83.3	81.0	80.4
72.5°	72.0	71.4	69.1	66.7	66.1
75°	59.5	57.1	54.8	52.4	52.4
77.5°	45.2	43.5	40.5	38.7	38.1
80°	31.0	29.8	27.4	26.2	25.6
82.5°	19.0	17.9	15.5	14.3	13.7
85°	8.9	7.7	6.5	6.0	6.0
87.5°	1.8	1.8	1.8	1.2	1.8
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	24.1	25.7	24.5	26.0	26.4	23.9	25.5	24.2	25.8	26.1
	3H	25.9	27.3	26.2	27.7	28.0	25.6	27.0	25.9	27.4	27.7
	4H	26.5	27.9	26.9	28.2	28.6	26.1	27.5	26.5	27.8	28.2
	6H	26.9	28.2	27.3	28.5	28.9	26.4	27.7	26.8	28.1	28.4
	8H	27.0	28.2	27.4	28.6	29.0	26.5	27.7	26.9	28.1	28.5
	12H	27.0	28.2	27.4	28.5	29.0	26.5	27.6	26.9	28.0	28.5
4H	2H	24.7	26.1	25.1	26.4	26.8	24.5	25.9	24.9	26.3	26.6
	3H	26.7	27.8	27.1	28.2	28.6	26.4	27.6	26.8	28.0	28.4
	4H	27.4	28.4	27.8	28.8	29.3	27.0	28.1	27.5	28.5	28.9
	6H	27.9	28.8	28.3	29.2	29.7	27.4	28.4	27.9	28.8	29.3
	8H	28.0	28.9	28.5	29.3	29.8	27.5	28.4	28.0	28.8	29.3
	12H	28.1	28.8	28.5	29.3	29.8	27.5	28.3	28.0	28.8	29.2
8H	4H	27.6	28.5	28.1	28.9	29.4	27.3	28.2	27.8	28.6	29.1
	6H	28.2	28.9	28.7	29.4	29.9	27.8	28.5	28.3	29.0	29.5
	8H	28.4	29.0	28.9	29.5	30.0	27.9	28.5	28.4	29.0	29.5
	12H	28.4	29.0	28.9	29.5	30.0	27.9	28.5	28.4	29.0	29.5
12H	4H	27.6	28.4	28.1	28.9	29.3	27.3	28.1	27.8	28.6	29.0
	6H	28.2	28.9	28.7	29.3	29.9	27.8	28.5	28.3	28.9	29.5
	8H	28.4	29.0	28.9	29.4	30.0	27.9	28.5	28.5	29.0	29.6

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