

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: P1219836

Luminaire Tested: SEC3HSSOLMBLK-4000K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219836
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC3HSSOLMBLK-4000K
Description: Solar SEL 2000 5CCT Motion 3H BLK-4000K

Light Source:
Ballast/Driver: -

Summary

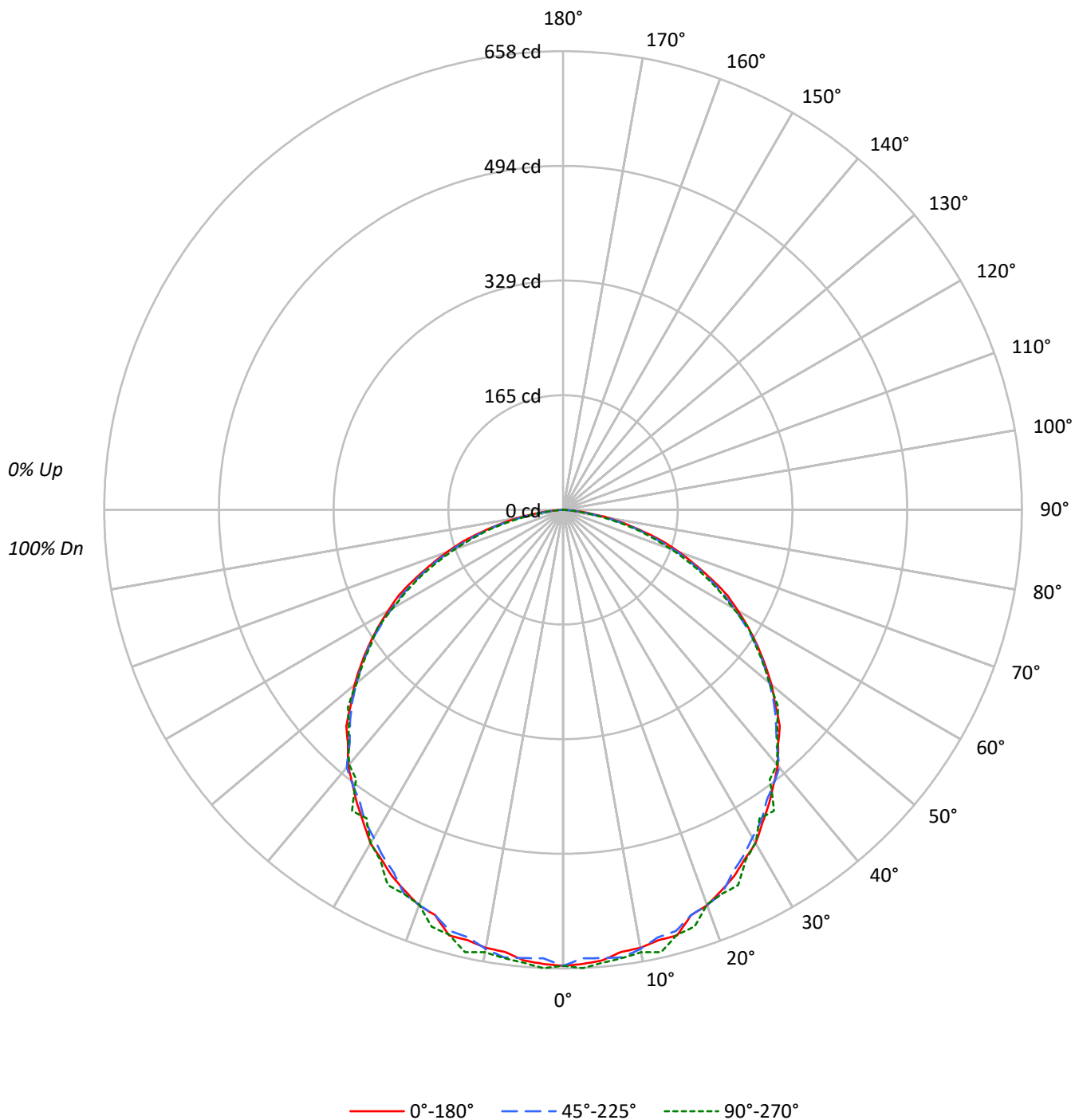
Lumens per Lamp: N/A
Luminaire Lumens: 1835.5 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 1.08' x H: 0')
CIE Type: Direct

Input Watts (W): 15
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: >0.17
Total Harmonic Distortion (THDi): <28
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1219836

CATALOG NUMBER: SEC3HSSOLMBLK-4000K

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	72	70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47		58	51	46		56	50	46	44
6	70	57	48	41	68	56	47	41	54	47	41		52	46	41		51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36		48	41	36		46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32		44	37	32		43	36	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	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26081	26081	26081
5°	25964	25836	26096
10°	25827	25892	26090
15°	26084	25816	26039
20°	25616	25595	25569
25°	25513	25271	26133
30°	25424	25001	25401
35°	25059	24772	25667
40°	24933	25105	24824
45°	24784	24356	24480
50°	24207	23971	23934
55°	23659	23507	23361
60°	23075	22644	22429
65°	22093	21574	21121
70°	20596	19967	19209
75°	18207	17452	16774
80°	14693	12811	12076
85°	7913	6221	5215

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 24784 cd/sqm

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CATALOG NUMBER: SEC3HSSOLMBLK-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	3.4
10°-20°	176.8	9.6
20°-30°	267.7	14.6
30°-40°	321.9	17.5
40°-50°	335.7	18.3
50°-60°	303.1	16.5
60°-70°	227.4	12.4
70°-80°	119.5	6.5
80°-90°	21.6	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°	506.3	27.6
0°-40°	828.1	45.1
0°-60°	1466.9	79.9
0°-90°	1835.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1835.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	654	654	654	654	654	
5°	649	647	646	656	652	61
15°	632	629	626	632	631	176
25°	580	584	574	587	594	267
35°	515	515	509	521	527	322
45°	440	437	432	435	434	337
55°	340	344	338	338	336	304
65°	234	236	229	232	224	232
75°	118	116	113	107	109	126
85°	17	17	14	12	11	25
90°	0	0	0	0	0	

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CATALOG NUMBER: SEC3HSSOLMBLK-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	654.2	654.2	654.2	654.2	654.2
2.5°	652.1	655.3	643.9	653.1	658.0
5°	648.8	647.2	645.6	656.4	652.1
7.5°	639.6	648.3	647.7	647.2	648.8
10°	638.0	642.8	639.6	646.1	644.5
12.5°	632.5	637.4	628.2	636.3	649.9
15°	632.0	629.3	625.5	632.5	630.9
17.5°	609.8	605.4	609.8	618.4	627.1
20°	603.8	607.1	603.3	610.9	602.7
22.5°	591.9	594.6	595.7	594.6	596.2
25°	580.0	584.3	574.5	587.0	594.1
27.5°	564.8	564.2	559.9	567.0	567.0
30°	552.3	551.2	543.1	550.7	551.8
32.5°	532.3	528.5	529.0	528.5	524.7
35°	514.9	514.9	509.0	520.9	527.4
37.5°	496.0	497.0	496.0	497.0	487.3
40°	479.1	478.6	482.4	478.1	477.0
42.5°	456.4	458.6	452.6	458.6	455.3
45°	439.6	436.9	432.0	435.2	434.2
47.5°	412.5	410.3	410.3	413.6	418.4
50°	390.3	395.1	386.5	388.6	385.9
52.5°	365.3	365.3	362.1	365.9	361.5
55°	340.4	344.2	338.2	338.2	336.1
57.5°	314.9	317.6	311.1	313.3	315.5
60°	289.4	286.7	284.0	283.5	281.3
62.5°	265.6	263.4	256.9	256.4	253.1
65°	234.2	235.8	228.7	232.0	223.9
67.5°	204.3	203.8	200.0	198.4	194.0
70°	176.7	177.8	171.3	169.7	164.8
72.5°	149.1	147.4	140.9	138.2	135.5
75°	118.2	116.5	113.3	107.3	108.9
77.5°	90.0	87.8	85.6	79.1	77.5
80°	64.0	61.2	55.8	53.1	52.6
82.5°	38.5	36.9	33.1	29.8	28.2
85°	17.3	16.8	13.6	11.9	11.4
87.5°	4.3	3.8	3.3	3.3	2.7
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	23.3	24.9	23.7	25.2	25.6	23.2	24.9	23.6	25.2	25.5
	3H	25.1	26.5	25.4	26.9	27.2	24.9	26.4	25.3	26.7	27.0
	4H	25.7	27.1	26.1	27.4	27.8	25.4	26.8	25.8	27.2	27.5
	6H	26.0	27.3	26.5	27.7	28.1	25.7	27.0	26.1	27.4	27.8
	8H	26.1	27.4	26.6	27.8	28.2	25.8	27.0	26.2	27.4	27.8
	12H	26.2	27.3	26.6	27.7	28.2	25.8	26.9	26.2	27.3	27.8
4H	2H	23.9	25.3	24.3	25.6	26.0	23.8	25.2	24.2	25.6	25.9
	3H	25.9	27.0	26.3	27.4	27.8	25.7	26.9	26.1	27.3	27.7
	4H	26.6	27.6	27.0	28.1	28.5	26.3	27.4	26.8	27.8	28.2
	6H	27.1	28.0	27.5	28.4	28.9	26.7	27.6	27.2	28.1	28.5
	8H	27.2	28.0	27.7	28.5	29.0	26.8	27.7	27.3	28.1	28.6
	12H	27.2	28.0	27.7	28.5	29.0	26.8	27.6	27.3	28.1	28.5
8H	4H	26.8	27.7	27.3	28.1	28.6	26.6	27.5	27.1	27.9	28.4
	6H	27.4	28.1	27.9	28.6	29.1	27.1	27.8	27.6	28.3	28.7
	8H	27.6	28.2	28.1	28.7	29.2	27.2	27.8	27.7	28.3	28.8
	12H	27.6	28.2	28.2	28.7	29.3	27.2	27.8	27.7	28.3	28.8
12H	4H	26.8	27.6	27.3	28.1	28.6	26.6	27.4	27.1	27.9	28.3
	6H	27.4	28.1	27.9	28.5	29.1	27.1	27.7	27.6	28.2	28.7
	8H	27.6	28.2	28.1	28.7	29.2	27.2	27.8	27.7	28.3	28.8

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