

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: P1219824

Luminaire Tested: SEC2HSSOLMBLK-2700K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219824
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSSOLMBLK-2700K
Description: Solar SEL 1500 5CCT Motion 2H BLK-2700K

Light Source:
Ballast/Driver: -

Summary

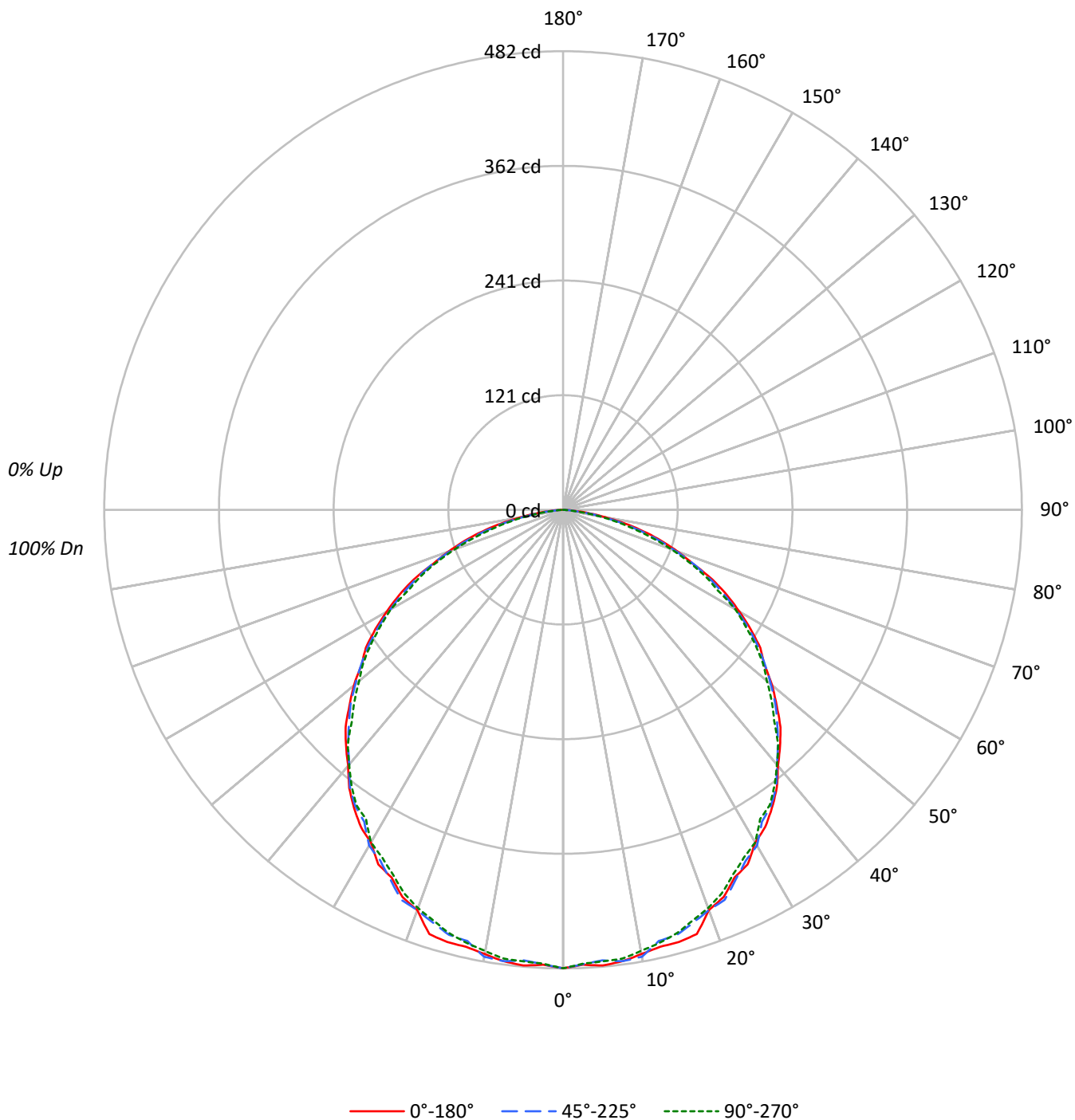
Lumens per Lamp: N/A
Luminaire Lumens: 1343.2 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.75' x H: 0')
CIE Type: Direct

Input Watts (W): 12
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: >0.9
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			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	97	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	62	59
4	83	71	62	55	81	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°	27659	27659	27659
5°	27701	27384	27448
10°	27637	27800	27444
15°	27951	27488	27393
20°	27351	27351	27216
25°	26996	27167	26781
30°	26754	27006	26754
35°	26813	26659	26540
40°	26319	26192	26192
45°	26231	25825	25468
50°	25605	25453	24962
55°	25322	24992	24661
60°	24559	24111	23985
65°	23514	22916	22386
70°	21468	20998	20259
75°	19452	18210	16990
80°	14943	13290	12397
85°	8365	5796	4018

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 26231 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	3.4
10°-20°	130.3	9.7
20°-30°	197.0	14.7
30°-40°	236.8	17.6
40°-50°	245.1	18.3
50°-60°	221.3	16.5
60°-70°	165.7	12.3
70°-80°	86.6	6.4
80°-90°	14.9	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°	372.8	27.8
0°-40°	609.6	45.4
0°-60°	1076.0	80.1
0°-90°	1343.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1343.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	482	482	482	482	482	
5°	481	477	475	476	476	46
15°	470	460	462	452	461	132
25°	426	430	429	421	423	198
35°	383	380	380	375	379	239
45°	323	320	318	315	314	248
55°	253	251	250	244	246	224
65°	173	170	169	164	165	169
75°	88	84	82	78	77	92
85°	13	12	9	7	6	18
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	481.8	481.8	481.8	481.8	481.8
2.5°	478.5	482.4	478.0	476.9	477.4
5°	480.7	477.4	475.2	475.8	476.3
7.5°	478.5	475.8	478.5	473.6	475.8
10°	474.1	472.5	476.9	473.0	470.8
12.5°	470.3	467.5	464.2	464.7	466.4
15°	470.3	459.8	462.5	452.1	460.9
17.5°	467.5	453.7	454.8	458.7	452.6
20°	447.7	446.0	447.7	446.6	445.5
22.5°	440.5	439.9	443.8	433.9	436.1
25°	426.2	429.5	428.9	421.2	422.8
27.5°	420.1	417.3	415.7	417.3	411.8
30°	403.6	406.3	407.4	404.7	403.6
32.5°	395.3	393.6	388.7	388.7	385.4
35°	382.6	379.8	380.4	374.9	378.7
37.5°	368.8	365.5	367.7	358.9	365.0
40°	351.2	352.3	349.5	349.5	349.5
42.5°	337.4	336.3	334.1	329.1	334.6
45°	323.1	319.8	318.1	315.3	313.7
47.5°	304.3	303.2	302.7	296.6	297.2
50°	286.7	285.6	285.0	282.3	279.5
52.5°	266.3	265.7	267.4	263.5	264.6
55°	253.0	250.8	249.7	244.2	246.4
57.5°	233.8	228.2	230.4	225.5	227.1
60°	213.9	211.7	210.0	204.5	208.9
62.5°	194.1	190.2	189.1	185.2	183.0
65°	173.1	169.8	168.7	163.7	164.8
67.5°	147.2	150.0	148.3	143.3	142.8
70°	127.9	127.9	125.1	121.3	120.7
72.5°	108.1	106.4	104.2	100.3	98.7
75°	87.7	84.3	82.1	77.7	76.6
77.5°	66.7	64.0	61.2	57.3	56.8
80°	45.2	43.6	40.2	36.9	37.5
82.5°	28.1	26.5	23.2	20.4	20.4
85°	12.7	11.6	8.8	7.2	6.1
87.5°	2.8	2.2	1.7	1.1	1.1
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	23.4	25.0	23.8	25.4	25.7	23.3	24.9	23.7	25.2	25.6
	3H	25.2	26.6	25.5	27.0	27.3	25.0	26.4	25.4	26.8	27.1
	4H	25.8	27.2	26.2	27.5	27.9	25.5	26.9	25.9	27.2	27.6
	6H	26.2	27.5	26.6	27.8	28.2	25.8	27.1	26.2	27.5	27.8
	8H	26.3	27.5	26.7	27.9	28.3	25.9	27.1	26.3	27.5	27.9
	12H	26.3	27.5	26.7	27.8	28.3	25.9	27.0	26.3	27.4	27.8
4H	2H	24.0	25.4	24.4	25.8	26.1	23.9	25.3	24.3	25.7	26.1
	3H	26.0	27.2	26.4	27.6	28.0	25.8	27.0	26.2	27.4	27.8
	4H	26.7	27.8	27.2	28.2	28.6	26.5	27.5	26.9	27.9	28.4
	6H	27.2	28.1	27.7	28.6	29.0	26.8	27.7	27.3	28.2	28.6
	8H	27.3	28.2	27.8	28.6	29.1	26.9	27.8	27.4	28.2	28.7
	12H	27.4	28.1	27.9	28.6	29.1	26.9	27.7	27.4	28.2	28.6
8H	4H	27.0	27.8	27.4	28.3	28.7	26.7	27.6	27.2	28.0	28.5
	6H	27.5	28.2	28.0	28.7	29.2	27.2	27.9	27.7	28.4	28.8
	8H	27.7	28.3	28.2	28.8	29.3	27.3	27.9	27.8	28.4	28.9
	12H	27.8	28.3	28.3	28.8	29.4	27.3	27.9	27.8	28.3	28.9
12H	4H	27.0	27.7	27.5	28.2	28.7	26.7	27.5	27.2	28.0	28.5
	6H	27.6	28.2	28.1	28.6	29.2	27.2	27.8	27.7	28.3	28.8
	8H	27.7	28.3	28.2	28.8	29.3	27.3	27.9	27.8	28.4	28.9

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