

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: P1212255

Luminaire Tested: SEC1HSHWMBLK-4000K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212255
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC1HSHWMBLK-4000K
Description: 120V SEL1500 Motion 1H Blk at 4000K

Light Source:
Ballast/Driver: -

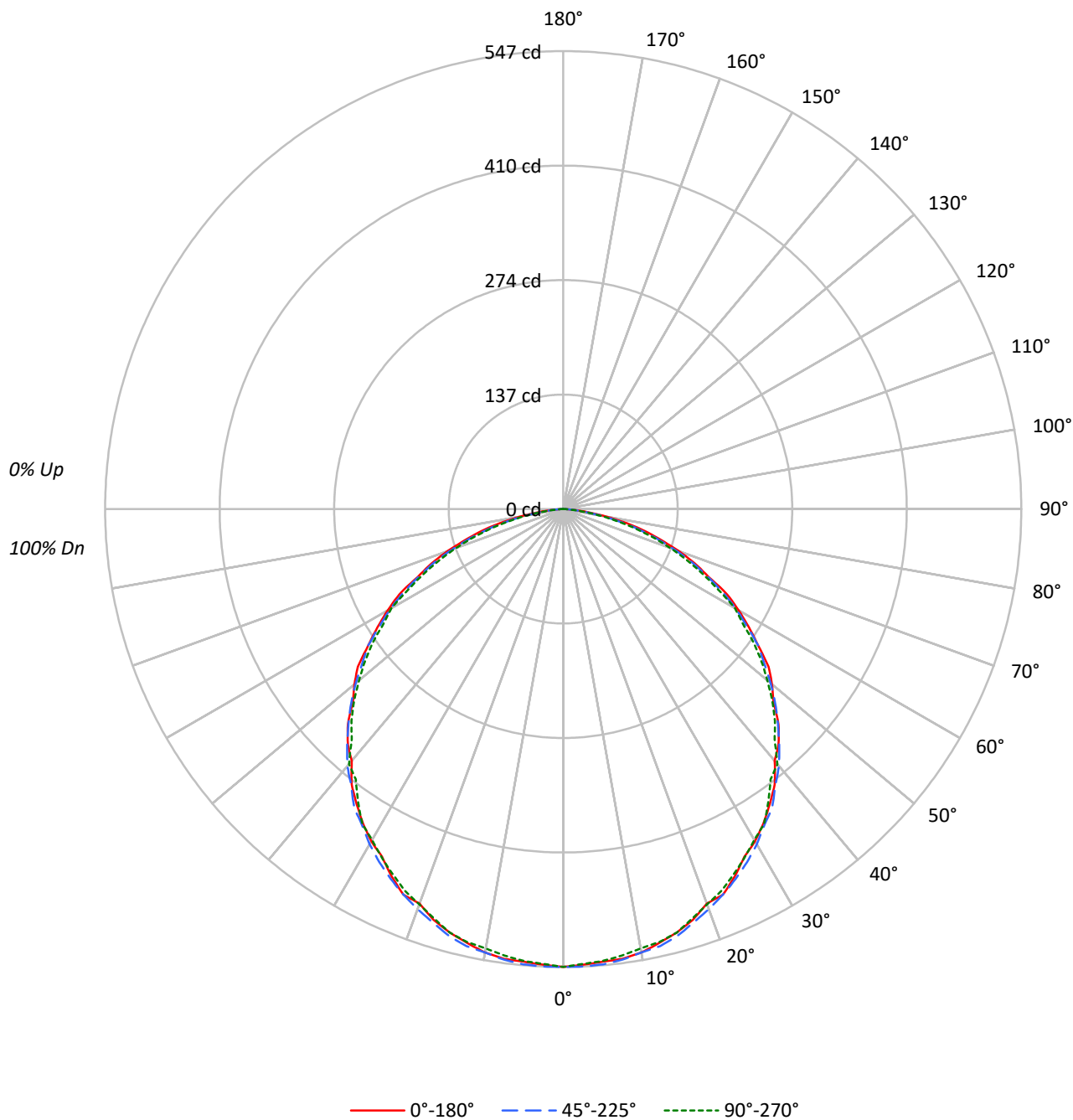
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1525.4 lumens
Efficiency: N/A
Efficacy: 123.0 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): 12.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: >0.16
Total Harmonic Distortion (THDi): <27
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	86	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	73	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	61	61	59
4	83	71	62	55	80	70	61	55	67	60	54	65	59	54	63	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	46	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	36	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	32	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	29	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	56065	56065	56065
5°	55857	56176	55754
10°	55982	55982	55462
15°	55580	56005	55580
20°	54710	55484	54830
25°	54791	55130	54452
30°	54238	54724	54001
35°	53813	54451	53437
40°	52565	53636	53234
45°	52713	52568	51829
50°	51880	51561	50747
55°	50758	50758	49507
60°	49555	48735	48530
65°	46427	45918	44705
70°	44060	42262	40763
75°	39885	36717	35093
80°	30934	27333	25562
85°	17761	13056	11880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 47.5°

Luminance: 52729 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	3.4
10°-20°	147.9	9.7
20°-30°	223.4	14.6
30°-40°	269.2	17.6
40°-50°	278.6	18.3
50°-60°	251.2	16.5
60°-70°	187.4	12.3
70°-80°	98.5	6.5
80°-90°	17.7	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°	422.9	27.7
0°-40°	692.1	45.4
0°-60°	1221.9	80.1
0°-90°	1525.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1525.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	543	545	546	542	542	52
15°	524	524	528	523	524	148
25°	484	481	487	486	481	223
35°	430	431	435	428	427	269
45°	364	362	363	356	358	279
55°	284	283	284	279	277	255
65°	191	193	189	186	184	192
75°	101	97	93	89	89	105
85°	15	13	11	10	10	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	546.9	546.9	546.9	546.9	546.9
2.5°	544.8	544.8	546.9	542.8	543.8
5°	542.8	544.8	545.9	541.8	541.8
7.5°	541.8	539.8	542.8	541.8	537.8
10°	537.8	535.8	537.8	534.8	532.8
12.5°	530.7	527.7	534.8	532.8	529.7
15°	523.7	523.7	527.7	522.7	523.7
17.5°	514.6	518.7	517.7	513.6	512.6
20°	501.5	505.6	508.6	506.6	502.6
22.5°	498.5	496.5	498.5	497.5	493.5
25°	484.4	481.4	487.4	486.4	481.4
27.5°	468.3	473.3	475.4	471.3	469.3
30°	458.2	460.3	462.3	458.2	456.2
32.5°	445.1	445.1	447.2	442.1	446.2
35°	430.0	431.0	435.1	428.0	427.0
37.5°	414.9	419.0	415.9	410.9	406.9
40°	392.8	400.8	400.8	396.8	397.8
42.5°	380.7	381.7	381.7	378.7	373.6
45°	363.6	361.6	362.6	356.5	357.5
47.5°	340.4	347.5	343.4	339.4	338.4
50°	325.3	326.3	323.3	318.2	318.2
52.5°	309.2	305.2	302.1	299.1	298.1
55°	284.0	283.0	284.0	279.0	277.0
57.5°	262.9	262.9	259.8	254.8	253.8
60°	241.7	240.7	237.7	232.6	236.7
62.5°	220.6	215.5	214.5	208.5	208.5
65°	191.4	193.4	189.3	186.3	184.3
67.5°	170.2	170.2	166.2	161.1	160.1
70°	147.0	145.0	141.0	137.0	136.0
72.5°	121.9	120.9	116.8	112.8	111.8
75°	100.7	96.7	92.7	88.6	88.6
77.5°	76.5	73.5	68.5	65.5	64.5
80°	52.4	50.4	46.3	44.3	43.3
82.5°	32.2	30.2	26.2	24.2	23.2
85°	15.1	13.1	11.1	10.1	10.1
87.5°	3.0	3.0	3.0	2.0	3.0
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	25.9	27.6	26.3	27.9	28.2	25.7	27.3	26.1	27.7	28.0
	3H	27.7	29.2	28.1	29.5	29.8	27.4	28.9	27.8	29.2	29.5
	4H	28.3	29.7	28.7	30.0	30.4	27.9	29.3	28.3	29.7	30.0
	6H	28.7	30.0	29.1	30.3	30.7	28.2	29.5	28.6	29.9	30.3
	8H	28.8	30.0	29.2	30.4	30.8	28.3	29.5	28.7	29.9	30.3
	12H	28.8	30.0	29.2	30.4	30.8	28.3	29.5	28.7	29.8	30.3
4H	2H	26.5	27.9	26.9	28.3	28.6	26.4	27.7	26.7	28.1	28.5
	3H	28.5	29.6	28.9	30.0	30.4	28.2	29.4	28.6	29.8	30.2
	4H	29.2	30.3	29.7	30.7	31.1	28.9	29.9	29.3	30.3	30.8
	6H	29.7	30.6	30.2	31.1	31.5	29.3	30.2	29.7	30.6	31.1
	8H	29.8	30.7	30.3	31.1	31.6	29.3	30.2	29.8	30.6	31.1
	12H	29.9	30.6	30.4	31.1	31.6	29.4	30.1	29.8	30.6	31.1
8H	4H	29.5	30.3	29.9	30.7	31.2	29.1	30.0	29.6	30.4	30.9
	6H	30.0	30.7	30.5	31.2	31.7	29.6	30.3	30.1	30.8	31.3
	8H	30.2	30.8	30.7	31.3	31.8	29.7	30.3	30.2	30.9	31.3
	12H	30.3	30.8	30.8	31.3	31.9	29.8	30.3	30.3	30.8	31.4
12H	4H	29.5	30.2	29.9	30.7	31.2	29.2	29.9	29.6	30.4	30.9
	6H	30.0	30.7	30.6	31.1	31.7	29.6	30.3	30.2	30.7	31.3
	8H	30.2	30.8	30.7	31.3	31.8	29.8	30.3	30.3	30.8	31.4

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