

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: P1212253

Luminaire Tested: SEC1HSHWMBLK-3000K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212253
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC1HSHWMBLK-3000K
Description: 120V SEL1500 Motion 1H Blk at 3000K

Light Source:
Ballast/Driver: -

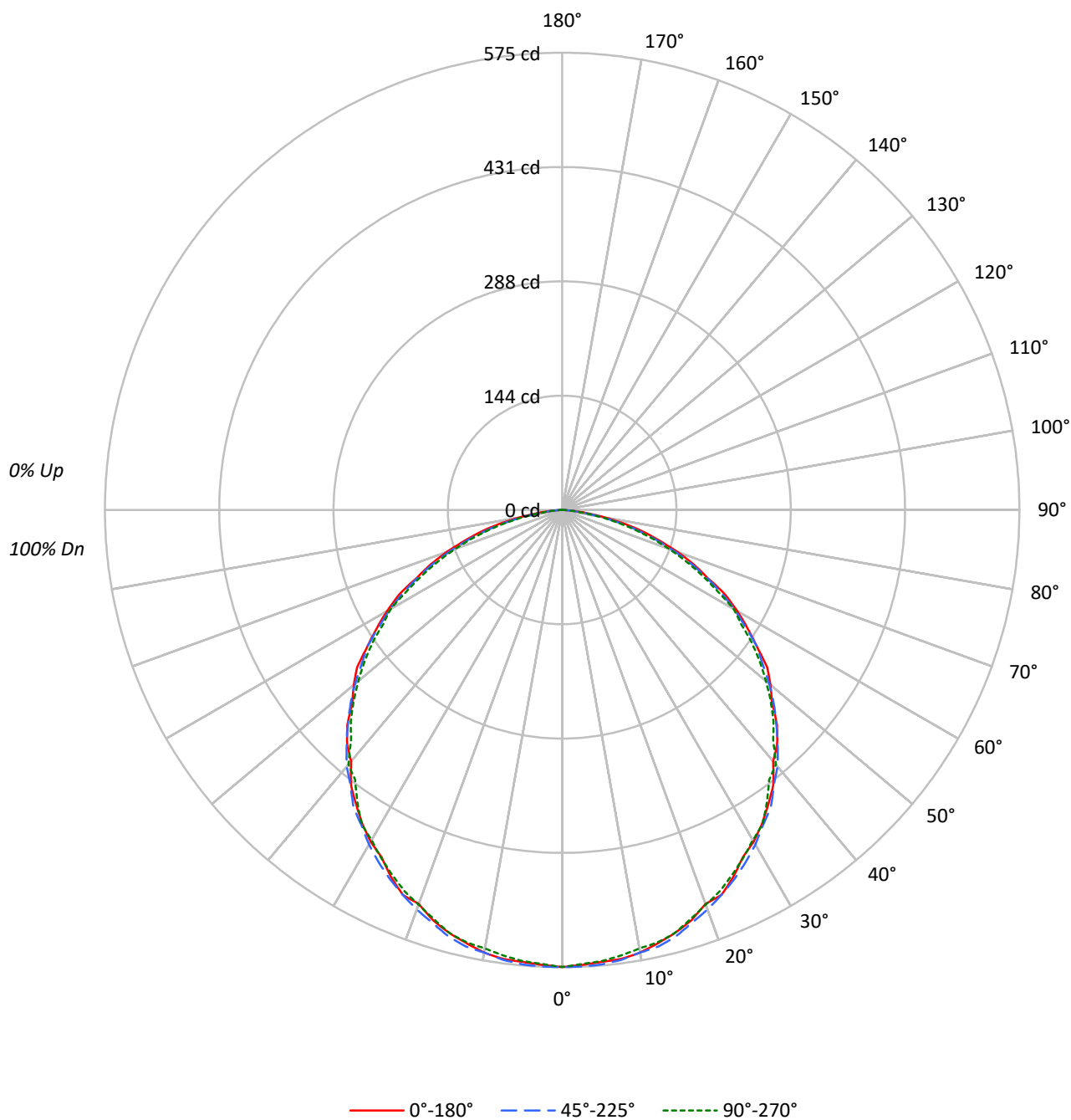
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1603.1 lumens
Efficiency: N/A
Efficacy: 129.3 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): 12.4
Input Voltage (V): 120
Input Current (Ain): 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61
4	83	71	62	55	80	70	61	55	67	60	54	65	59	54	63	57	53
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	58914	58914	58914
5°	58707	59026	58594
10°	58834	58834	58283
15°	58414	58860	58414
20°	57503	58310	57612
25°	57585	57947	57223
30°	57008	57505	56748
35°	56553	57217	56165
40°	55242	56366	55951
45°	55395	55236	54467
50°	54527	54176	53331
55°	53350	53350	52027
60°	52077	51216	50990
65°	48780	48271	46985
70°	46308	44420	42831
75°	41905	38578	36875
80°	32469	28750	26861
85°	18702	13644	12468

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 47.5°

Luminance: 55400 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	3.4
10°-20°	155.4	9.7
20°-30°	234.8	14.6
30°-40°	282.9	17.6
40°-50°	292.7	18.3
50°-60°	263.9	16.5
60°-70°	196.9	12.3
70°-80°	103.5	6.5
80°-90°	18.6	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°	444.5	27.7
0°-40°	727.4	45.4
0°-60°	1284.1	80.1
0°-90°	1603.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1603.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	575	575	575	575	575	
5°	570	573	574	569	569	54
15°	550	550	555	549	550	155
25°	509	506	512	511	506	234
35°	452	453	457	450	449	282
45°	382	380	381	375	376	293
55°	298	297	298	293	291	268
65°	201	203	199	196	194	202
75°	106	102	97	93	93	110
85°	16	14	12	11	11	22
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	574.7	574.7	574.7	574.7	574.7
2.5°	572.6	572.6	574.7	570.5	571.5
5°	570.5	572.6	573.6	569.4	569.4
7.5°	569.4	567.3	570.5	569.4	565.2
10°	565.2	563.1	565.2	562.0	559.9
12.5°	557.8	554.6	562.0	559.9	556.7
15°	550.4	550.4	554.6	549.3	550.4
17.5°	540.8	545.1	544.0	539.8	538.7
20°	527.1	531.3	534.5	532.4	528.1
22.5°	523.9	521.8	523.9	522.8	518.6
25°	509.1	505.9	512.3	511.2	505.9
27.5°	492.1	497.4	499.6	495.3	493.2
30°	481.6	483.7	485.8	481.6	479.4
32.5°	467.8	467.8	469.9	464.6	468.9
35°	451.9	453.0	457.2	449.8	448.8
37.5°	436.1	440.3	437.1	431.8	427.6
40°	412.8	421.2	421.2	417.0	418.1
42.5°	400.1	401.1	401.1	397.9	392.7
45°	382.1	380.0	381.0	374.7	375.7
47.5°	357.7	365.1	360.9	356.7	355.6
50°	341.9	342.9	339.7	334.4	334.4
52.5°	324.9	320.7	317.5	314.3	313.3
55°	298.5	297.4	298.5	293.2	291.1
57.5°	276.2	276.2	273.1	267.8	266.7
60°	254.0	253.0	249.8	244.5	248.7
62.5°	231.8	226.5	225.4	219.1	219.1
65°	201.1	203.2	199.0	195.8	193.7
67.5°	178.9	178.9	174.6	169.3	168.3
70°	154.5	152.4	148.2	143.9	142.9
72.5°	128.1	127.0	122.8	118.5	117.5
75°	105.8	101.6	97.4	93.1	93.1
77.5°	80.4	77.3	72.0	68.8	67.7
80°	55.0	52.9	48.7	46.6	45.5
82.5°	33.9	31.8	27.5	25.4	24.3
85°	15.9	13.8	11.6	10.6	10.6
87.5°	3.2	3.2	3.2	2.1	3.2
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	26.1	27.7	26.5	28.0	28.4	25.9	27.5	26.2	27.8	28.1
	3H	27.9	29.3	28.2	29.7	30.0	27.6	29.0	27.9	29.3	29.7
	4H	28.5	29.9	28.9	30.2	30.6	28.1	29.5	28.5	29.8	30.2
	6H	28.9	30.1	29.3	30.5	30.9	28.4	29.7	28.8	30.1	30.4
	8H	29.0	30.2	29.4	30.6	31.0	28.5	29.7	28.9	30.1	30.5
	12H	29.0	30.2	29.4	30.5	31.0	28.5	29.6	28.9	30.0	30.4
4H	2H	26.7	28.1	27.1	28.4	28.8	26.5	27.9	26.9	28.3	28.6
	3H	28.7	29.8	29.1	30.2	30.6	28.4	29.6	28.8	29.9	30.3
	4H	29.4	30.4	29.8	30.8	31.3	29.0	30.1	29.5	30.5	30.9
	6H	29.9	30.8	30.3	31.2	31.7	29.4	30.4	29.9	30.8	31.3
	8H	30.0	30.8	30.5	31.3	31.8	29.5	30.4	30.0	30.8	31.3
	12H	30.1	30.8	30.5	31.3	31.8	29.5	30.3	30.0	30.8	31.2
8H	4H	29.6	30.5	30.1	30.9	31.4	29.3	30.2	29.8	30.6	31.1
	6H	30.2	30.9	30.7	31.4	31.9	29.8	30.5	30.3	31.0	31.5
	8H	30.4	31.0	30.9	31.5	32.0	29.9	30.5	30.4	31.0	31.5
	12H	30.4	31.0	30.9	31.5	32.0	29.9	30.5	30.4	31.0	31.5
12H	4H	29.6	30.4	30.1	30.9	31.3	29.3	30.1	29.8	30.6	31.0
	6H	30.2	30.9	30.7	31.3	31.9	29.8	30.5	30.3	30.9	31.5
	8H	30.4	31.0	30.9	31.4	32.0	29.9	30.5	30.5	31.0	31.6

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