

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: P1212257

Luminaire Tested: SEC1HSHWMBLK-5000K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212257
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC1HSHWMBLK-5000K
Description: 120V SEL1500 Motion 1H Blk at 5000K

Light Source:
Ballast/Driver: -

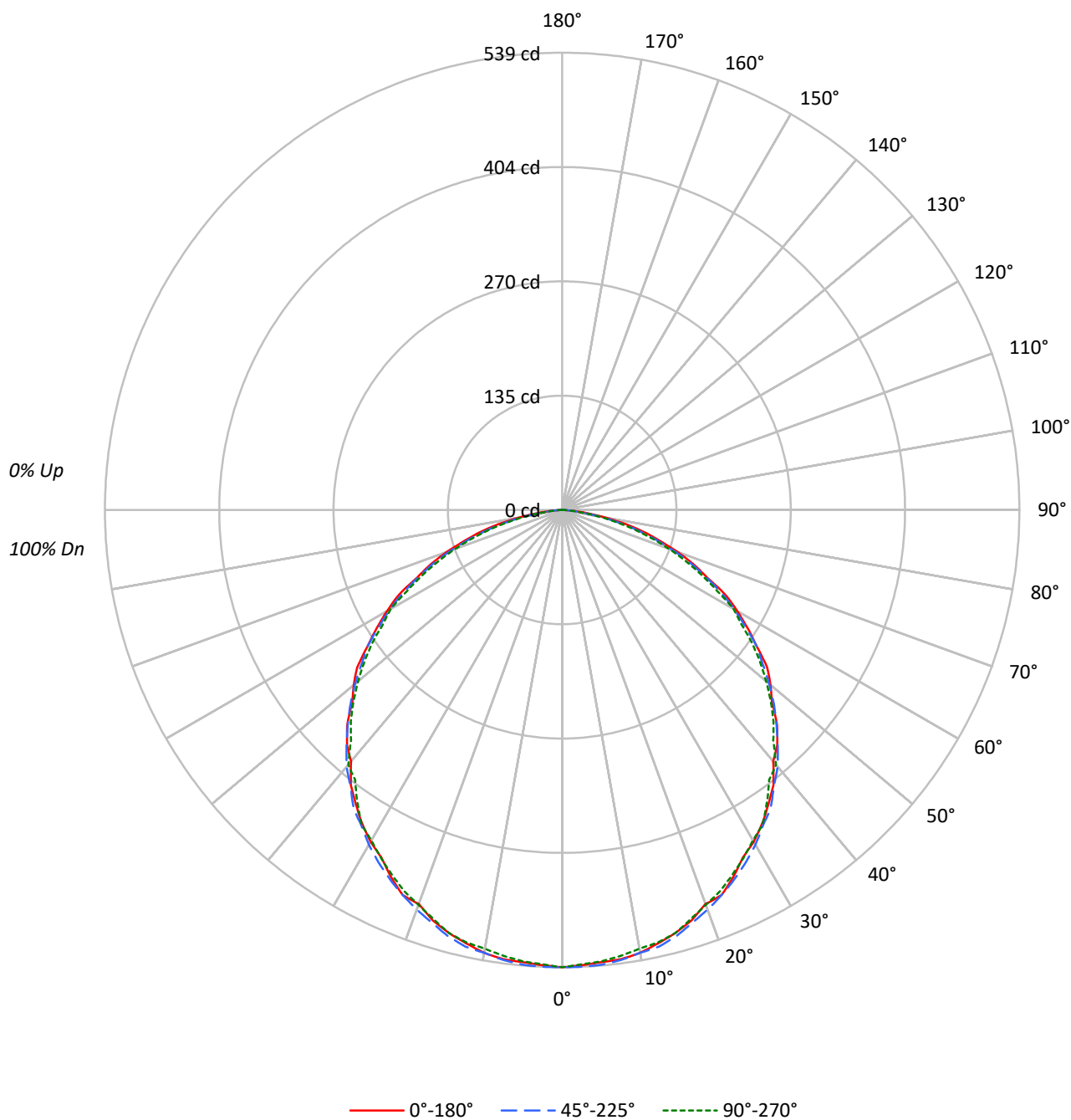
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1503.4 lumens
Efficiency: N/A
Efficacy: 121.2 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: >0.24
Total Harmonic Distortion (THDi): <35
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		0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111			106	106	106		102
1	109	104	100	96	106	102	98	95	98	95	92			94	91	89		90
2	99	91	84	79	97	89	83	78	86	80	76			82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64			73	67	63		70
4	83	71	62	55	80	70	61	55	67	60	54			65	59	54		63
5	76	63	54	48	74	62	54	47	60	53	47			58	52	46		56
6	70	57	48	42	68	56	48	41	54	47	41			53	46	41		51
7	65	52	43	37	63	51	42	37	49	42	36			48	41	36		46
8	61	47	39	33	59	46	38	33	45	38	32			44	37	32		43
9	57	43	35	29	55	43	35	29	41	34	29			40	34	29		39
10	53	40	32	27	52	39	32	27	38	31	27			37	31	26		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	55255	55255	55255
5°	55054	55363	54951
10°	55181	55181	54660
15°	54784	55198	54784
20°	53924	54688	54034
25°	53999	54339	53671
30°	53457	53930	53232
35°	53037	53663	52674
40°	51802	52873	52472
45°	51945	51800	51090
50°	51130	50811	50030
55°	50026	50026	48792
60°	48837	48038	47833
65°	45748	45263	44050
70°	43431	41662	40164
75°	39331	36162	34578
80°	30462	26979	25208
85°	17526	12821	11644

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 47.5°

Luminance: 51971 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	3.4
10°-20°	145.7	9.7
20°-30°	220.2	14.6
30°-40°	265.3	17.6
40°-50°	274.6	18.3
50°-60°	247.5	16.5
60°-70°	184.7	12.3
70°-80°	97.0	6.5
80°-90°	17.5	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°	416.9	27.7
0°-40°	682.2	45.4
0°-60°	1204.3	80.1
0°-90°	1503.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1503.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	539	539	539	539	539	
5°	535	537	538	534	534	51
15°	516	516	520	515	516	145
25°	477	474	480	479	474	220
35°	424	425	429	422	421	265
45°	358	356	357	351	352	275
55°	280	279	280	275	273	251
65°	189	191	187	184	182	189
75°	99	95	91	87	87	104
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°	539.0	539.0	539.0	539.0	539.0
2.5°	537.0	537.0	539.0	535.0	536.0
5°	535.0	537.0	538.0	534.0	534.0
7.5°	534.0	532.0	535.0	534.0	530.1
10°	530.1	528.1	530.1	527.1	525.1
12.5°	523.1	520.1	527.1	525.1	522.1
15°	516.2	516.2	520.1	515.2	516.2
17.5°	507.2	511.2	510.2	506.2	505.2
20°	494.3	498.3	501.3	499.3	495.3
22.5°	491.3	489.4	491.3	490.4	486.4
25°	477.4	474.5	480.4	479.4	474.5
27.5°	461.6	466.5	468.5	464.5	462.6
30°	451.6	453.6	455.6	451.6	449.7
32.5°	438.7	438.7	440.7	435.8	439.7
35°	423.8	424.8	428.8	421.9	420.9
37.5°	409.0	412.9	409.9	405.0	401.0
40°	387.1	395.1	395.1	391.1	392.1
42.5°	375.2	376.2	376.2	373.2	368.3
45°	358.3	356.3	357.3	351.4	352.4
47.5°	335.5	342.5	338.5	334.5	333.5
50°	320.6	321.6	318.6	313.7	313.7
52.5°	304.7	300.8	297.8	294.8	293.8
55°	279.9	278.9	279.9	275.0	273.0
57.5°	259.1	259.1	256.1	251.1	250.1
60°	238.2	237.2	234.3	229.3	233.3
62.5°	217.4	212.4	211.4	205.5	205.5
65°	188.6	190.6	186.6	183.6	181.6
67.5°	167.8	167.8	163.8	158.8	157.8
70°	144.9	142.9	139.0	135.0	134.0
72.5°	120.1	119.1	115.1	111.2	110.2
75°	99.3	95.3	91.3	87.3	87.3
77.5°	75.4	72.5	67.5	64.5	63.5
80°	51.6	49.6	45.7	43.7	42.7
82.5°	31.8	29.8	25.8	23.8	22.8
85°	14.9	12.9	10.9	9.9	9.9
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	27.5	26.2	27.8	28.1	25.7	27.3	26.0	27.6	27.9
	3H	27.6	29.1	28.0	29.4	29.8	27.3	28.8	27.7	29.1	29.5
	4H	28.3	29.6	28.7	30.0	30.4	27.9	29.3	28.3	29.6	30.0
	6H	28.6	29.9	29.1	30.3	30.7	28.2	29.5	28.6	29.8	30.2
	8H	28.7	30.0	29.2	30.3	30.7	28.2	29.5	28.7	29.8	30.2
	12H	28.8	29.9	29.2	30.3	30.7	28.2	29.4	28.7	29.8	30.2
4H	2H	26.5	27.9	26.9	28.2	28.6	26.3	27.7	26.7	28.0	28.4
	3H	28.4	29.6	28.8	30.0	30.4	28.2	29.3	28.6	29.7	30.1
	4H	29.2	30.2	29.6	30.6	31.1	28.8	29.9	29.3	30.3	30.7
	6H	29.7	30.6	30.1	31.0	31.5	29.2	30.1	29.7	30.6	31.0
	8H	29.8	30.6	30.2	31.1	31.5	29.3	30.1	29.8	30.6	31.0
	12H	29.8	30.6	30.3	31.1	31.5	29.3	30.1	29.8	30.6	31.0
8H	4H	29.4	30.3	29.9	30.7	31.2	29.1	29.9	29.6	30.4	30.9
	6H	30.0	30.7	30.5	31.2	31.6	29.6	30.3	30.1	30.8	31.2
	8H	30.1	30.8	30.6	31.3	31.8	29.7	30.3	30.2	30.8	31.3
	12H	30.2	30.8	30.7	31.3	31.8	29.7	30.3	30.2	30.8	31.3
12H	4H	29.4	30.2	29.9	30.7	31.1	29.1	29.9	29.6	30.4	30.8
	6H	30.0	30.6	30.5	31.1	31.6	29.6	30.2	30.1	30.7	31.2
	8H	30.2	30.7	30.7	31.2	31.8	29.7	30.3	30.2	30.8	31.3

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