

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: P1212259

Luminaire Tested: SEC1HSHWMBLK-6500K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212259
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC1HSHWMBLK-6500K
Description: 120V SEL1500 Motion 1H Blk at 6500K

Light Source:
Ballast/Driver: -

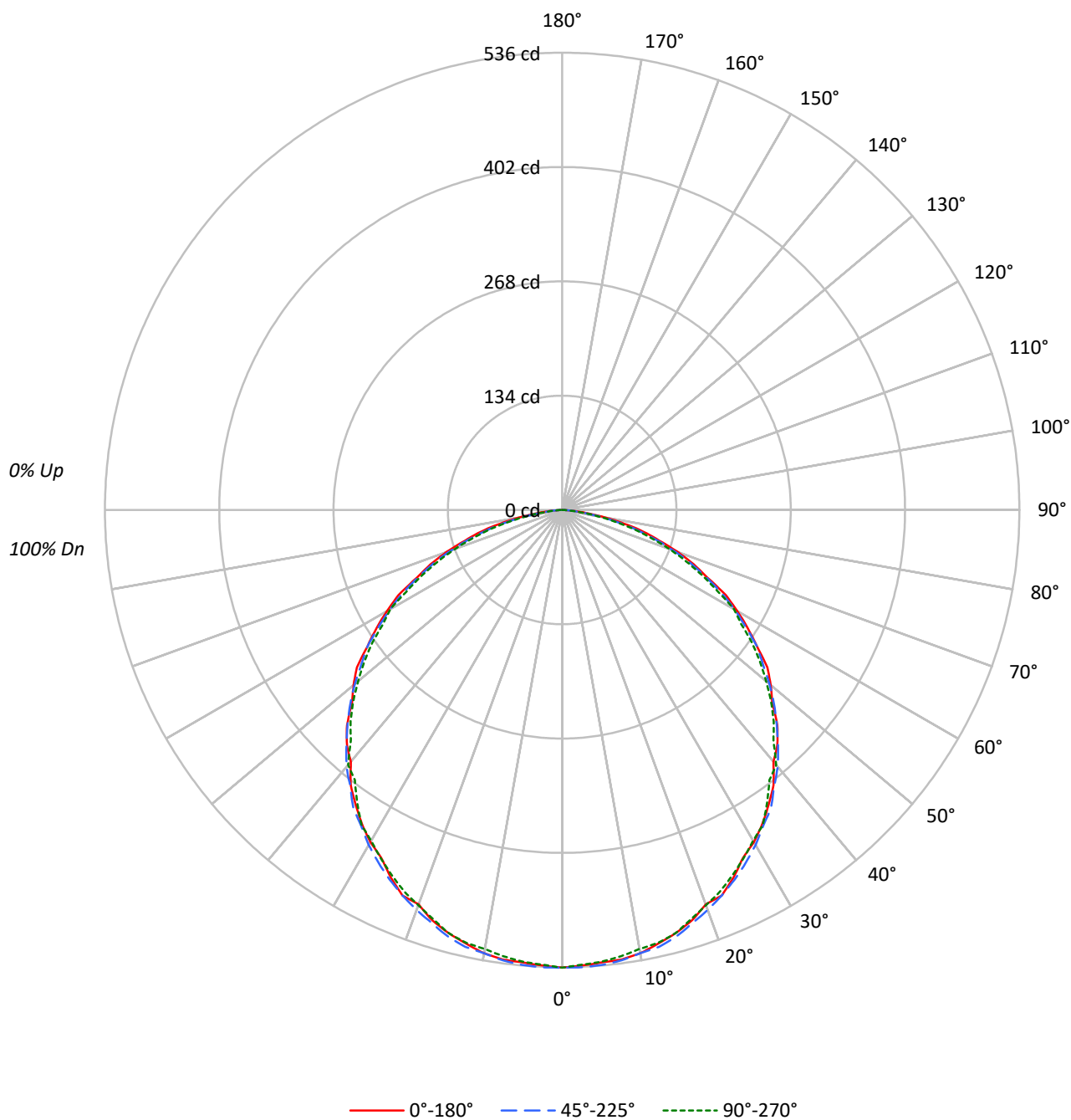
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1496.4 lumens
Efficiency: N/A
Efficacy: 120.7 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: >0.32
Total Harmonic Distortion (THDi): <43
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
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°	54998	54998	54998
5°	54797	55106	54694
10°	54920	54920	54400
15°	54519	54943	54519
20°	53674	54426	53783
25°	53750	54090	53422
30°	53208	53682	52983
35°	52799	53412	52424
40°	51562	52619	52231
45°	51713	51568	50843
50°	50891	50572	49790
55°	49793	49793	48560
60°	48612	47812	47607
65°	45530	45045	43856
70°	43221	41453	39984
75°	39133	36004	34419
80°	30344	26802	25090
85°	17408	12821	11644

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 47.5°

Luminance: 51728 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	3.4
10°-20°	145.0	9.7
20°-30°	219.2	14.6
30°-40°	264.1	17.6
40°-50°	273.3	18.3
50°-60°	246.4	16.5
60°-70°	183.8	12.3
70°-80°	96.6	6.5
80°-90°	17.4	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°	414.9	27.7
0°-40°	679.0	45.4
0°-60°	1198.7	80.1
0°-90°	1496.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1496.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	536	536	536	536	536	
5°	532	534	536	532	532	51
15°	514	514	518	513	514	145
25°	475	472	478	477	472	219
35°	422	423	427	420	419	264
45°	357	355	356	350	351	273
55°	279	278	279	274	272	250
65°	188	190	186	183	181	188
75°	99	95	91	87	87	103
85°	15	13	11	10	10	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	536.5	536.5	536.5	536.5	536.5
2.5°	534.5	534.5	536.5	532.5	533.5
5°	532.5	534.5	535.5	531.5	531.5
7.5°	531.5	529.6	532.5	531.5	527.6
10°	527.6	525.6	527.6	524.6	522.6
12.5°	520.7	517.7	524.6	522.6	519.7
15°	513.7	513.7	517.7	512.8	513.7
17.5°	504.9	508.8	507.8	503.9	502.9
20°	492.0	496.0	498.9	497.0	493.0
22.5°	489.1	487.1	489.1	488.1	484.1
25°	475.2	472.3	478.2	477.2	472.3
27.5°	459.4	464.4	466.3	462.4	460.4
30°	449.5	451.5	453.5	449.5	447.6
32.5°	436.7	436.7	438.7	433.7	437.7
35°	421.9	422.9	426.8	419.9	418.9
37.5°	407.0	411.0	408.0	403.1	399.1
40°	385.3	393.2	393.2	389.3	390.3
42.5°	373.5	374.4	374.4	371.5	366.5
45°	356.7	354.7	355.7	349.7	350.7
47.5°	333.9	340.9	336.9	332.9	332.0
50°	319.1	320.1	317.1	312.2	312.2
52.5°	303.3	299.4	296.4	293.4	292.4
55°	278.6	277.6	278.6	273.7	271.7
57.5°	257.9	257.9	254.9	250.0	249.0
60°	237.1	236.1	233.2	228.2	232.2
62.5°	216.4	211.4	210.4	204.5	204.5
65°	187.7	189.7	185.7	182.8	180.8
67.5°	167.0	167.0	163.0	158.1	157.1
70°	144.2	142.3	138.3	134.4	133.4
72.5°	119.5	118.6	114.6	110.7	109.7
75°	98.8	94.8	90.9	86.9	86.9
77.5°	75.1	72.1	67.2	64.2	63.2
80°	51.4	49.4	45.4	43.5	42.5
82.5°	31.6	29.6	25.7	23.7	22.7
85°	14.8	12.8	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	25.6	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	28.2	29.6	28.6	30.0	30.3	27.9	29.2	28.3	29.6	30.0
	6H	28.6	29.9	29.0	30.3	30.7	28.2	29.5	28.6	29.8	30.2
	8H	28.7	29.9	29.1	30.3	30.7	28.2	29.4	28.6	29.8	30.2
	12H	28.7	29.9	29.2	30.3	30.7	28.2	29.4	28.7	29.8	30.2
4H	2H	26.5	27.8	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	31.0	28.8	29.9	29.2	30.3	30.7
	6H	29.6	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	29.7	30.6	31.0
	12H	29.8	30.6	30.3	31.1	31.5	29.3	30.1	29.8	30.5	31.0
8H	4H	29.4	30.2	29.8	30.7	31.1	29.1	29.9	29.5	30.4	30.8
	6H	30.0	30.7	30.5	31.2	31.6	29.5	30.3	30.0	30.7	31.2
	8H	30.1	30.7	30.6	31.3	31.7	29.6	30.3	30.2	30.8	31.3
	12H	30.2	30.8	30.7	31.2	31.8	29.7	30.2	30.2	30.7	31.3
12H	4H	29.4	30.2	29.9	30.6	31.1	29.1	29.9	29.6	30.3	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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