

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: P1212251

Luminaire Tested: SEC1HSHWMBLK-2700K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212251
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC1HSHWMBLK-2700K
Description: 120V SEL1500 Motion 1H Blk at 2700K

Light Source:
Ballast/Driver: -

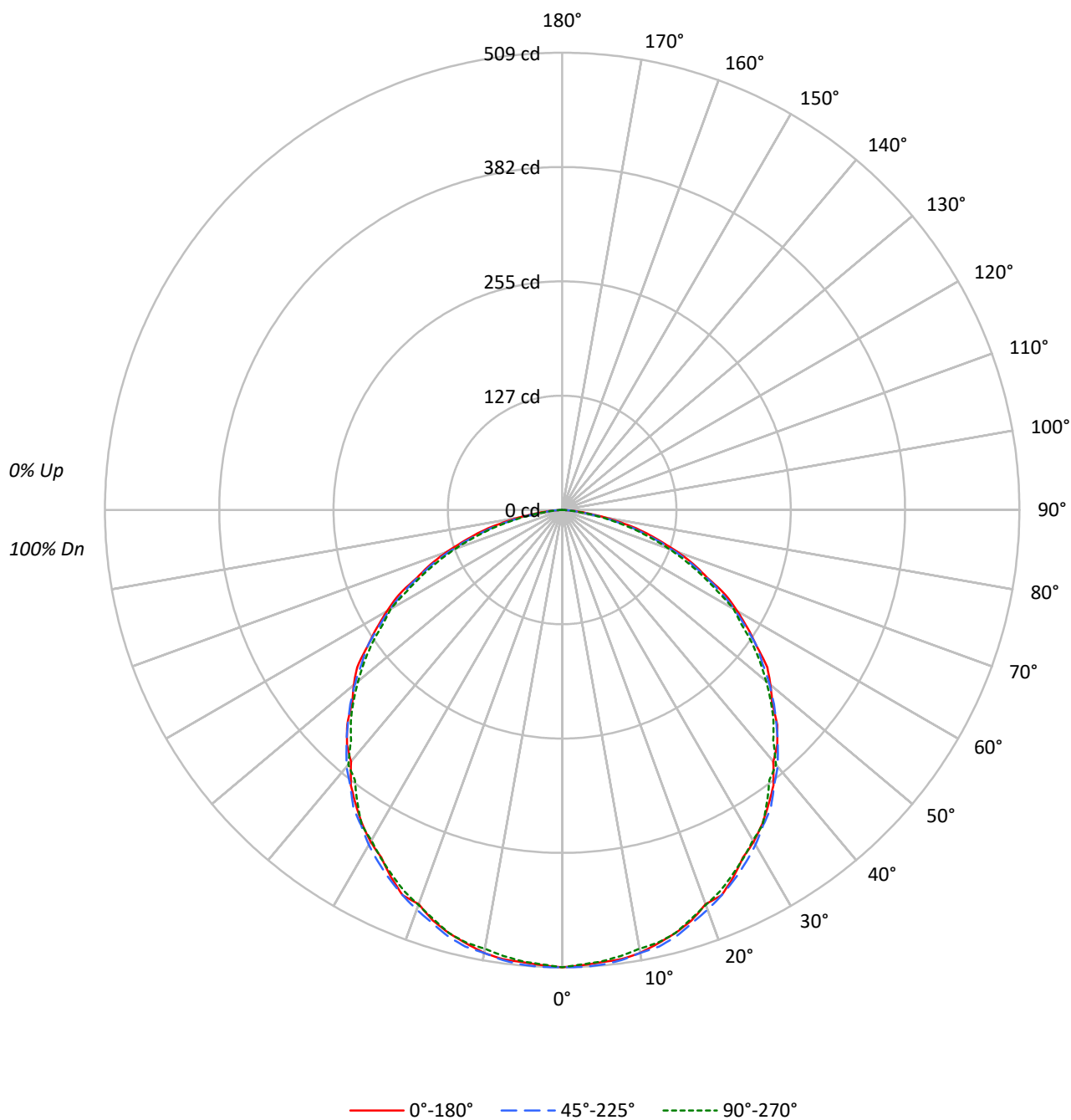
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1420.1 lumens
Efficiency: N/A
Efficacy: 114.5 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
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°	52190	52190	52190
5°	52008	52296	51905
10°	52120	52120	51631
15°	51738	52142	51738
20°	50935	51655	51044
25°	51013	51330	50696
30°	50498	50947	50273
35°	50108	50684	49745
40°	48939	49942	49554
45°	49074	48929	48248
50°	48291	48004	47255
55°	47255	47255	46076
60°	46131	45372	45167
65°	43201	42765	41625
70°	41033	39354	37946
75°	37152	34182	32677
80°	28809	25444	23791
85°	16585	12115	11056

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 47.5°

Luminance: 49088 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.1	3.4
10°-20°	137.6	9.7
20°-30°	208.0	14.6
30°-40°	250.6	17.6
40°-50°	259.3	18.3
50°-60°	233.8	16.5
60°-70°	174.4	12.3
70°-80°	91.7	6.5
80°-90°	16.5	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°	393.8	27.7
0°-40°	644.4	45.4
0°-60°	1137.5	80.1
0°-90°	1420.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1420.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	505	507	508	504	504	48
15°	488	488	491	487	488	137
25°	451	448	454	453	448	207
35°	400	401	405	398	398	250
45°	338	337	338	332	333	260
55°	264	264	264	260	258	237
65°	178	180	176	174	172	179
75°	94	90	86	82	82	98
85°	14	12	10	9	9	19
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	509.1	509.1	509.1	509.1	509.1
2.5°	507.2	507.2	509.1	505.4	506.3
5°	505.4	507.2	508.2	504.4	504.4
7.5°	504.4	502.5	505.4	504.4	500.7
10°	500.7	498.8	500.7	497.9	496.0
12.5°	494.1	491.3	497.9	496.0	493.2
15°	487.5	487.5	491.3	486.6	487.5
17.5°	479.1	482.9	481.9	478.2	477.2
20°	466.9	470.7	473.5	471.6	467.9
22.5°	464.1	462.2	464.1	463.2	459.4
25°	451.0	448.2	453.8	452.9	448.2
27.5°	436.0	440.7	442.5	438.8	436.9
30°	426.6	428.5	430.4	426.6	424.7
32.5°	414.4	414.4	416.3	411.6	415.4
35°	400.4	401.3	405.0	398.5	397.5
37.5°	386.3	390.0	387.2	382.5	378.8
40°	365.7	373.2	373.2	369.4	370.3
42.5°	354.4	355.3	355.3	352.5	347.8
45°	338.5	336.6	337.5	331.9	332.8
47.5°	316.9	323.5	319.7	316.0	315.0
50°	302.8	303.8	301.0	296.3	296.3
52.5°	287.8	284.1	281.3	278.5	277.5
55°	264.4	263.5	264.4	259.7	257.8
57.5°	244.7	244.7	241.9	237.2	236.3
60°	225.0	224.1	221.3	216.6	220.3
62.5°	205.3	200.6	199.7	194.1	194.1
65°	178.1	180.0	176.3	173.5	171.6
67.5°	158.5	158.5	154.7	150.0	149.1
70°	136.9	135.0	131.3	127.5	126.6
72.5°	113.4	112.5	108.8	105.0	104.1
75°	93.8	90.0	86.3	82.5	82.5
77.5°	71.3	68.4	63.8	60.9	60.0
80°	48.8	46.9	43.1	41.3	40.3
82.5°	30.0	28.1	24.4	22.5	21.6
85°	14.1	12.2	10.3	9.4	9.4
87.5°	2.8	2.8	2.8	1.9	2.8
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	25.7	27.3	26.0	27.6	27.9	25.5	27.1	25.8	27.4	27.7
	3H	27.4	28.9	27.8	29.2	29.6	27.1	28.6	27.5	28.9	29.3
	4H	28.1	29.4	28.5	29.8	30.2	27.7	29.1	28.1	29.4	29.8
	6H	28.4	29.7	28.9	30.1	30.5	28.0	29.3	28.4	29.6	30.0
	8H	28.5	29.8	29.0	30.1	30.5	28.0	29.3	28.5	29.7	30.1
	12H	28.6	29.7	29.0	30.1	30.5	28.0	29.2	28.5	29.6	30.0
4H	2H	26.3	27.7	26.7	28.0	28.4	26.1	27.5	26.5	27.8	28.2
	3H	28.2	29.4	28.6	29.8	30.2	28.0	29.1	28.4	29.5	29.9
	4H	29.0	30.0	29.4	30.4	30.9	28.6	29.7	29.1	30.1	30.5
	6H	29.5	30.4	29.9	30.8	31.3	29.0	29.9	29.5	30.4	30.8
	8H	29.6	30.4	30.0	30.9	31.3	29.1	29.9	29.6	30.4	30.9
	12H	29.6	30.4	30.1	30.9	31.3	29.1	29.9	29.6	30.4	30.8
8H	4H	29.2	30.1	29.7	30.5	31.0	28.9	29.7	29.4	30.2	30.7
	6H	29.8	30.5	30.3	31.0	31.4	29.4	30.1	29.9	30.6	31.0
	8H	29.9	30.6	30.4	31.1	31.6	29.5	30.1	30.0	30.6	31.1
	12H	30.0	30.6	30.5	31.1	31.6	29.5	30.1	30.0	30.6	31.1
12H	4H	29.2	30.0	29.7	30.5	30.9	28.9	29.7	29.4	30.2	30.6
	6H	29.8	30.4	30.3	30.9	31.4	29.4	30.0	29.9	30.5	31.0
	8H	30.0	30.5	30.5	31.0	31.6	29.5	30.1	30.0	30.6	31.1

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