

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: P1212280

Luminaire Tested: SEC2HSPLUGMBLK-4000K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212280
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSPLUGMBLK-4000K
Description: ACPlug SEL1500 Motion 2H Blk at 4000K

Light Source:
Ballast/Driver: -

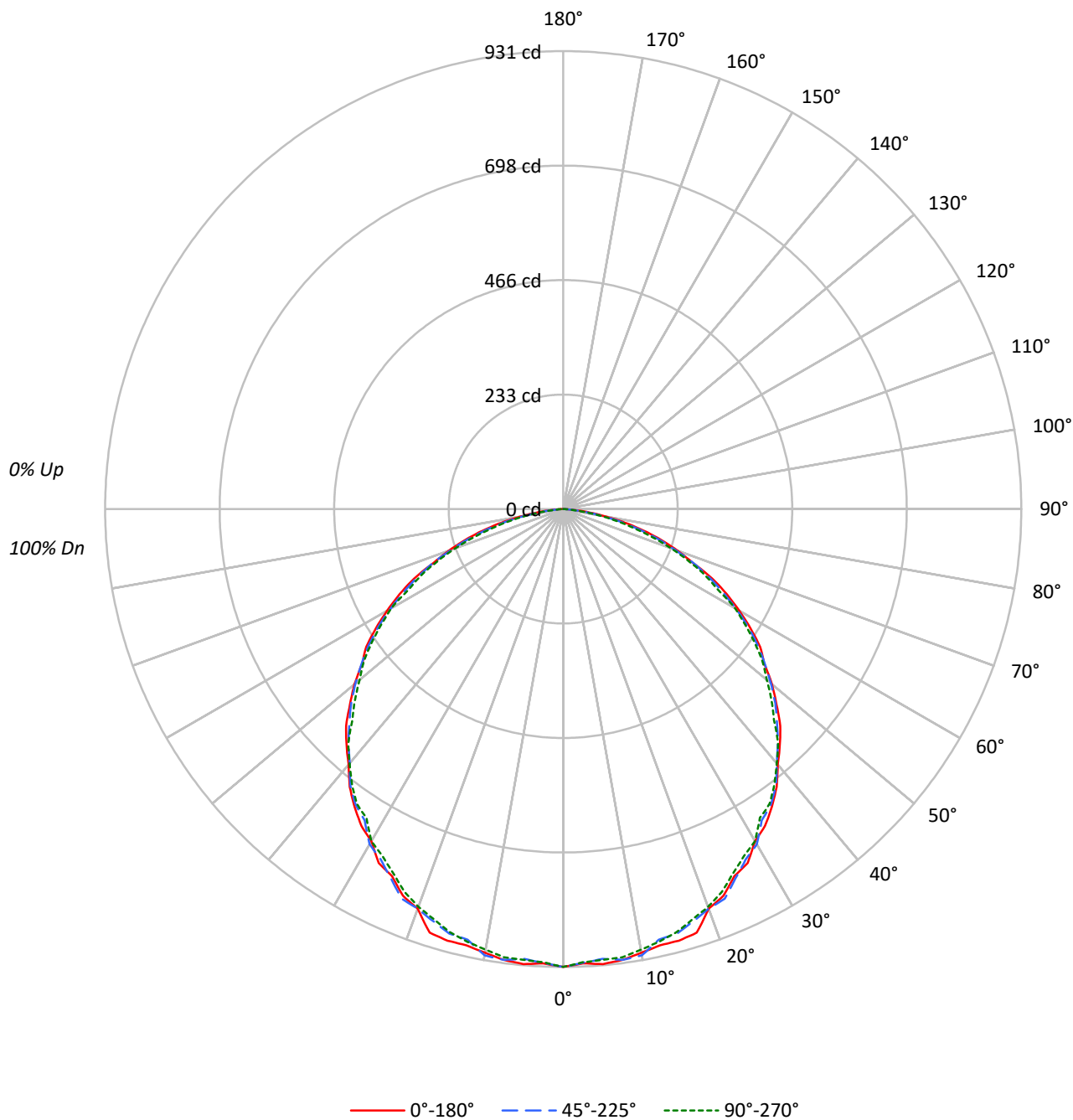
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2594.7 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.75' x H: 0')
CIE Type: Direct

Input Watts (W): 21.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: >0.19
Total Harmonic Distortion (THDi): <30
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	97	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	62
4	83	71	62	55	81	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°	53435	53435	53435
5°	53512	52901	53022
10°	53385	53700	53018
15°	53989	53103	52913
20°	52826	52826	52570
25°	52143	52479	51738
30°	51672	52169	51672
35°	51797	51496	51272
40°	50839	50600	50600
45°	50669	49889	49191
50°	49460	49174	48219
55°	48923	48282	47641
60°	47442	46580	46339
65°	45424	44270	43251
70°	41475	40569	39142
75°	37552	35201	32827
80°	28861	25687	23935
85°	16138	11198	7707

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 50669 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	3.4
10°-20°	251.7	9.7
20°-30°	380.6	14.7
30°-40°	457.4	17.6
40°-50°	473.5	18.3
50°-60°	427.5	16.5
60°-70°	320.0	12.3
70°-80°	167.4	6.4
80°-90°	28.7	1.1
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°	720.1	27.8
0°-40°	1177.5	45.4
0°-60°	2078.5	80.1
0°-90°	2594.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2594.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	931	931	931	931	931	
5°	929	922	918	919	920	88
15°	908	888	894	873	890	255
25°	823	830	828	814	817	382
35°	739	734	735	724	732	461
45°	624	618	614	609	606	479
55°	489	484	482	472	476	434
65°	334	328	326	316	318	327
75°	169	163	159	150	148	178
85°	24	22	17	14	12	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	930.8	930.8	930.8	930.8	930.8
2.5°	924.4	931.8	923.3	921.2	922.2
5°	928.6	922.2	918.0	919.0	920.1
7.5°	924.4	919.0	924.4	914.8	919.0
10°	915.8	912.7	921.2	913.7	909.5
12.5°	908.4	903.1	896.7	897.7	900.9
15°	908.4	888.2	893.5	873.2	890.3
17.5°	903.1	876.4	878.6	886.0	874.3
20°	864.7	861.5	864.7	862.6	860.5
22.5°	850.9	849.8	857.3	838.1	842.4
25°	823.2	829.6	828.5	813.6	816.8
27.5°	811.5	806.2	803.0	806.2	795.5
30°	779.5	784.9	787.0	781.7	779.5
32.5°	763.6	760.4	750.8	750.8	744.4
35°	739.1	733.7	734.8	724.2	731.6
37.5°	712.4	706.1	710.3	693.3	705.0
40°	678.4	680.5	675.2	675.2	675.2
42.5°	651.7	649.6	645.4	635.8	646.4
45°	624.1	617.7	614.5	609.1	605.9
47.5°	587.8	585.7	584.7	572.9	574.0
50°	553.8	551.6	550.6	545.2	539.9
52.5°	514.4	513.3	516.5	509.0	511.2
55°	488.8	484.5	482.4	471.8	476.0
57.5°	451.5	440.9	445.1	435.6	438.8
60°	413.2	408.9	405.7	395.1	403.6
62.5°	374.9	367.4	365.3	357.8	353.6
65°	334.4	328.0	325.9	316.3	318.4
67.5°	284.3	289.7	286.5	276.9	275.8
70°	247.1	247.1	241.7	234.3	233.2
72.5°	208.7	205.5	201.3	193.8	190.6
75°	169.3	162.9	158.7	150.2	148.0
77.5°	128.9	123.5	118.2	110.8	109.7
80°	87.3	84.1	77.7	71.4	72.4
82.5°	54.3	51.1	44.7	39.4	39.4
85°	24.5	22.4	17.0	13.8	11.7
87.5°	5.3	4.3	3.2	2.1	2.1
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	26.1	27.6	28.0	25.6	27.2	25.9	27.5	27.8
	3H	27.5	28.9	27.8	29.3	29.6	27.3	28.7	27.6	29.1	29.4
	4H	28.1	29.5	28.5	29.8	30.2	27.8	29.2	28.2	29.5	29.9
	6H	28.5	29.8	28.9	30.1	30.5	28.1	29.4	28.5	29.7	30.1
	8H	28.6	29.8	29.0	30.2	30.6	28.1	29.4	28.6	29.8	30.2
	12H	28.6	29.8	29.0	30.1	30.6	28.1	29.3	28.6	29.7	30.1
4H	2H	26.3	27.7	26.7	28.1	28.4	26.2	27.6	26.6	28.0	28.3
	3H	28.3	29.4	28.7	29.8	30.2	28.1	29.3	28.5	29.7	30.1
	4H	29.0	30.1	29.4	30.5	30.9	28.7	29.8	29.2	30.2	30.6
	6H	29.5	30.4	30.0	30.9	31.3	29.1	30.0	29.6	30.5	30.9
	8H	29.6	30.5	30.1	30.9	31.4	29.2	30.0	29.7	30.5	31.0
	12H	29.7	30.4	30.1	30.9	31.4	29.2	30.0	29.7	30.4	30.9
8H	4H	29.3	30.1	29.7	30.6	31.0	29.0	29.9	29.5	30.3	30.8
	6H	29.8	30.5	30.3	31.0	31.5	29.5	30.2	30.0	30.7	31.1
	8H	30.0	30.6	30.5	31.1	31.6	29.6	30.2	30.1	30.7	31.2
	12H	30.1	30.6	30.6	31.1	31.7	29.6	30.1	30.1	30.6	31.2
12H	4H	29.3	30.0	29.7	30.5	31.0	29.0	29.8	29.5	30.3	30.7
	6H	29.8	30.5	30.4	30.9	31.5	29.5	30.1	30.0	30.6	31.1
	8H	30.0	30.6	30.5	31.1	31.6	29.6	30.2	30.1	30.7	31.2

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