

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: P1212276

Luminaire Tested: SEC2HSPLUGMBLK-3000K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212276
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSPLUGMBLK-3000K
Description: ACPlug SEL1500 Motion 2H Blk at 3000K

Light Source:
Ballast/Driver: -

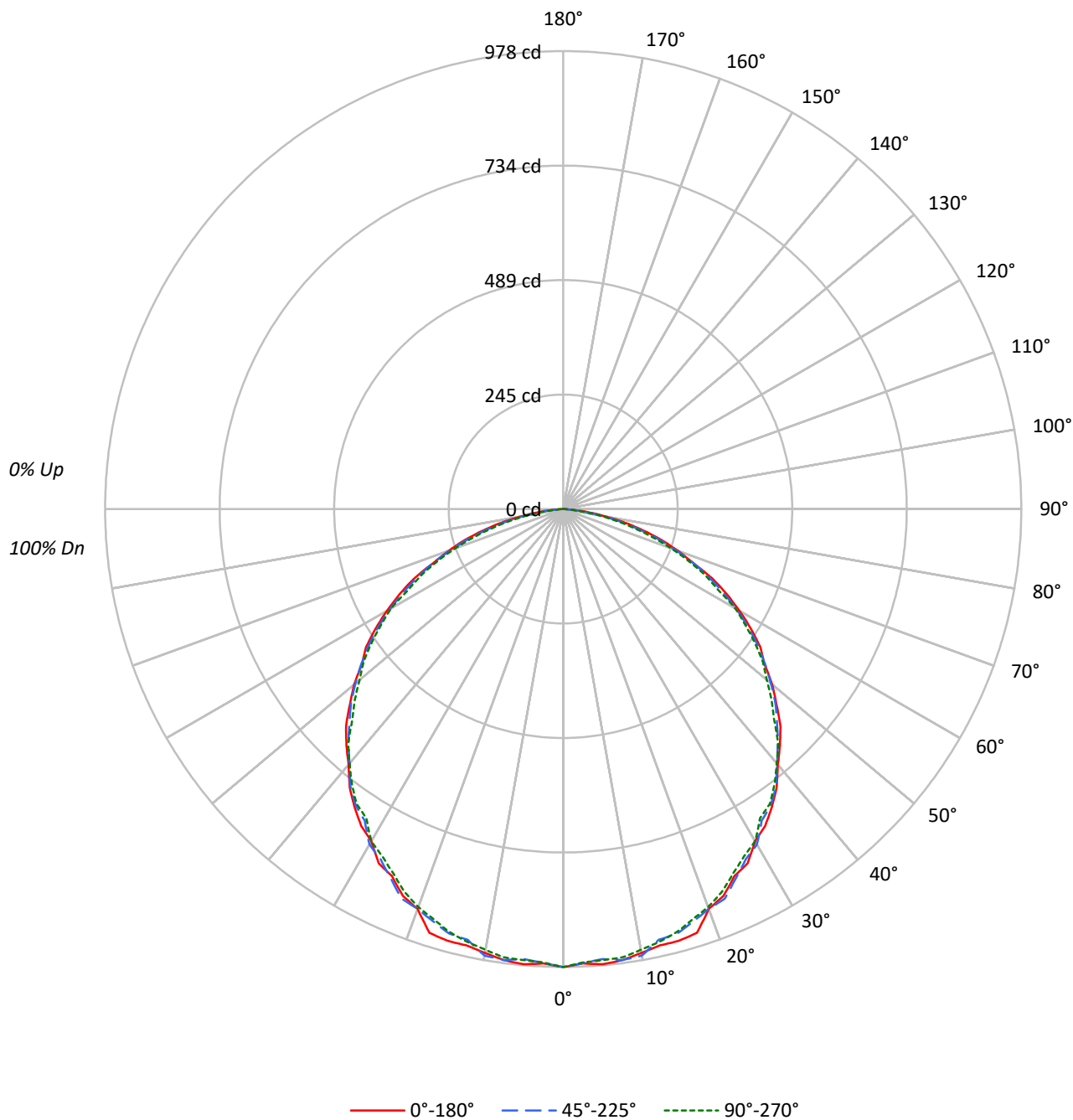
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2726.7 lumens
Efficiency: N/A
Efficacy: 124.5 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: >0.11
Total Harmonic Distortion (THDi): <22
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°	56150	56150	56150
5°	56238	55593	55719
10°	56107	56434	55711
15°	56734	55807	55605
20°	55514	55514	55245
25°	54797	55152	54373
30°	54304	54821	54304
35°	54432	54117	53886
40°	53425	53170	53170
45°	53242	52422	51700
50°	51979	51675	50675
55°	51415	50744	50074
60°	49853	48957	48705
65°	47733	46524	45451
70°	43573	42634	41140
75°	39459	36997	34513
80°	30349	27010	25158
85°	16928	11790	8102

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 53242 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	3.4
10°-20°	264.5	9.7
20°-30°	400.0	14.7
30°-40°	480.7	17.6
40°-50°	497.6	18.3
50°-60°	449.2	16.5
60°-70°	336.3	12.3
70°-80°	175.9	6.4
80°-90°	30.2	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°	756.7	27.8
0°-40°	1237.4	45.4
0°-60°	2184.3	80.1
0°-90°	2726.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2726.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	976	969	965	966	967	93
15°	955	933	939	918	936	268
25°	865	872	871	855	858	401
35°	777	771	772	761	769	485
45°	656	649	646	640	637	503
55°	514	509	507	496	500	456
65°	351	345	342	332	335	344
75°	178	171	167	158	156	187
85°	26	24	18	14	12	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	978.1	978.1	978.1	978.1	978.1
2.5°	971.4	979.3	970.3	968.1	969.2
5°	975.9	969.2	964.7	965.8	966.9
7.5°	971.4	965.8	971.4	961.3	965.8
10°	962.5	959.1	968.1	960.2	955.7
12.5°	954.6	949.0	942.3	943.4	946.8
15°	954.6	933.4	939.0	917.7	935.6
17.5°	949.0	921.1	923.3	931.1	918.8
20°	908.7	905.4	908.7	906.5	904.3
22.5°	894.2	893.1	900.9	880.8	885.2
25°	865.1	871.8	870.7	855.0	858.4
27.5°	852.8	847.2	843.8	847.2	836.0
30°	819.2	824.8	827.0	821.5	819.2
32.5°	802.4	799.1	789.0	789.0	782.3
35°	776.7	771.1	772.2	761.0	768.9
37.5°	748.7	742.0	746.5	728.6	740.9
40°	712.9	715.1	709.5	709.5	709.5
42.5°	684.9	682.7	678.2	668.1	679.3
45°	655.8	649.1	645.7	640.2	636.8
47.5°	617.8	615.5	614.4	602.1	603.2
50°	582.0	579.7	578.6	573.0	567.4
52.5°	540.5	539.4	542.8	535.0	537.2
55°	513.7	509.2	507.0	495.8	500.3
57.5°	474.5	463.3	467.8	457.7	461.1
60°	434.2	429.8	426.4	415.2	424.2
62.5°	393.9	386.1	383.9	376.0	371.6
65°	351.4	344.7	342.5	332.4	334.6
67.5°	298.8	304.4	301.0	291.0	289.9
70°	259.6	259.6	254.0	246.2	245.1
72.5°	219.4	216.0	211.5	203.7	200.3
75°	177.9	171.2	166.8	157.8	155.6
77.5°	135.4	129.8	124.2	116.4	115.3
80°	91.8	88.4	81.7	75.0	76.1
82.5°	57.1	53.7	47.0	41.4	41.4
85°	25.7	23.5	17.9	14.5	12.3
87.5°	5.6	4.5	3.4	2.2	2.2
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	25.9	27.5	26.2	27.8	28.1	25.8	27.4	26.1	27.7	28.0
	3H	27.6	29.1	28.0	29.4	29.8	27.4	28.9	27.8	29.2	29.6
	4H	28.3	29.6	28.7	30.0	30.4	28.0	29.4	28.4	29.7	30.1
	6H	28.6	29.9	29.1	30.3	30.7	28.3	29.6	28.7	29.9	30.3
	8H	28.7	29.9	29.1	30.3	30.7	28.3	29.5	28.7	29.9	30.3
	12H	28.8	29.9	29.2	30.3	30.7	28.3	29.5	28.7	29.9	30.3
4H	2H	26.5	27.9	26.9	28.2	28.6	26.4	27.8	26.8	28.1	28.5
	3H	28.5	29.6	28.9	30.0	30.4	28.3	29.4	28.7	29.8	30.2
	4H	29.2	30.2	29.6	30.6	31.1	28.9	30.0	29.3	30.4	30.8
	6H	29.7	30.6	30.1	31.0	31.5	29.3	30.2	29.8	30.7	31.1
	8H	29.8	30.6	30.2	31.1	31.5	29.4	30.2	29.8	30.7	31.1
	12H	29.8	30.6	30.3	31.1	31.5	29.4	30.1	29.9	30.6	31.1
8H	4H	29.4	30.3	29.9	30.7	31.2	29.2	30.0	29.6	30.5	30.9
	6H	30.0	30.7	30.5	31.2	31.7	29.6	30.3	30.1	30.8	31.3
	8H	30.1	30.8	30.7	31.3	31.8	29.7	30.4	30.2	30.9	31.3
	12H	30.2	30.8	30.7	31.3	31.8	29.8	30.3	30.3	30.8	31.4
12H	4H	29.4	30.2	29.9	30.7	31.1	29.2	30.0	29.7	30.4	30.9
	6H	30.0	30.6	30.5	31.1	31.6	29.7	30.3	30.2	30.8	31.3
	8H	30.2	30.7	30.7	31.2	31.8	29.8	30.3	30.3	30.8	31.4

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