

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: P1212278

Luminaire Tested: SEC2HSPLUGMWH-3000K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212278
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSPLUGMWH-3000K
Description: ACPlug SEL1500 Motion 2H WH at 3000K

Light Source:
Ballast/Driver: -

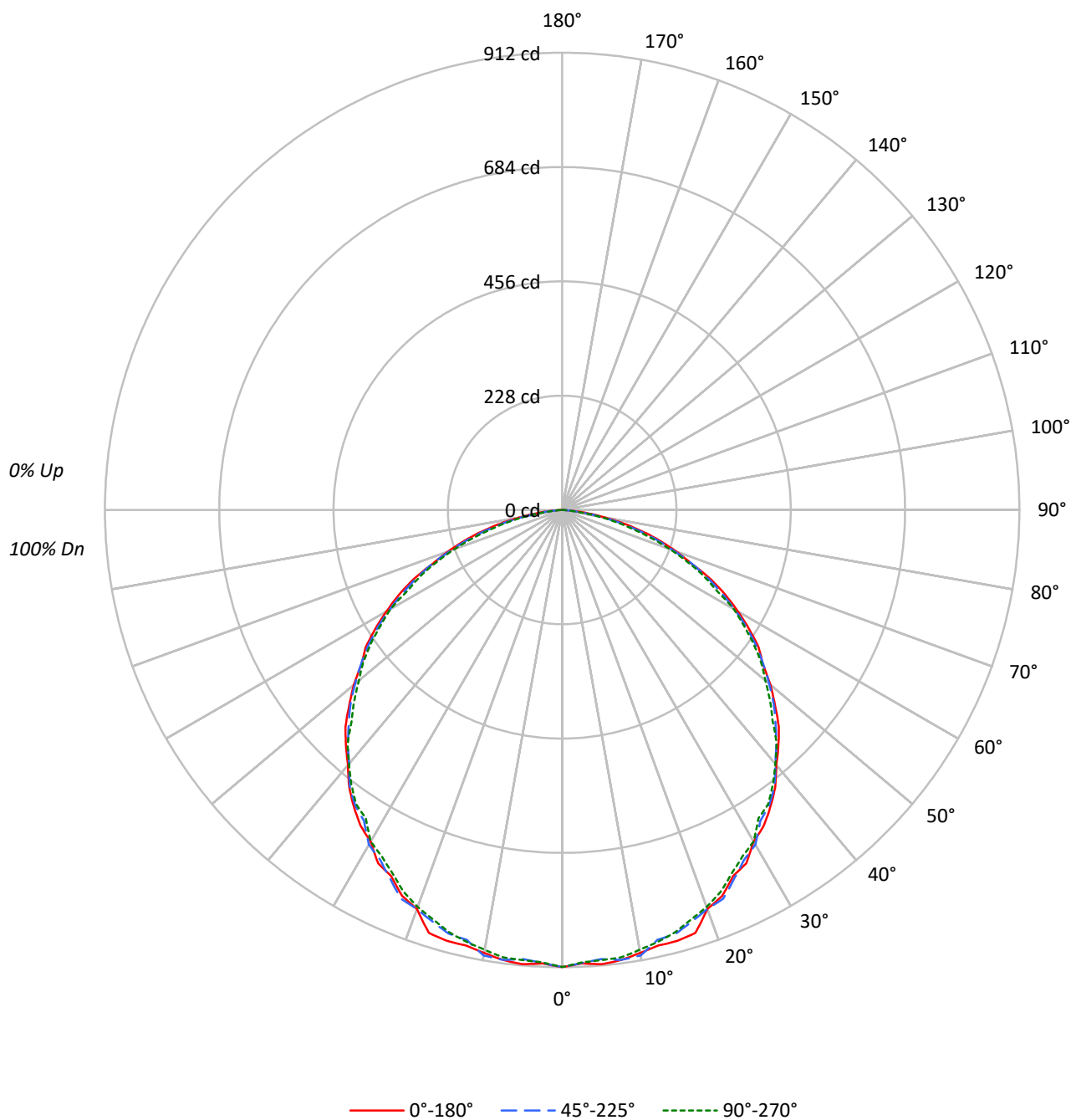
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2541.3 lumens
Efficiency: N/A
Efficacy: 116.0 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: >0.15
Total Harmonic Distortion (THDi): <26
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	86	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	73	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	62	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	46	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	36	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	32	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	29	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	52333	52333	52333
5°	52412	51812	51933
10°	52289	52592	51922
15°	52877	52010	51819
20°	51739	51739	51482
25°	51066	51402	50674
30°	50611	51095	50611
35°	50725	50438	50214
40°	49790	49558	49558
45°	49621	48858	48184
50°	48442	48156	47227
55°	47912	47291	46661
60°	46466	45628	45386
65°	44487	43359	42368
70°	40619	39747	38337
75°	36775	34469	32162
80°	28266	25158	23439
85°	15808	11000	7575

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 49621 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	3.4
10°-20°	246.5	9.7
20°-30°	372.8	14.7
30°-40°	448.0	17.6
40°-50°	463.8	18.3
50°-60°	418.7	16.5
60°-70°	313.4	12.3
70°-80°	163.9	6.5
80°-90°	28.2	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°	705.3	27.8
0°-40°	1153.3	45.4
0°-60°	2035.7	80.1
0°-90°	2541.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2541.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	910	903	899	900	901	86
15°	890	870	875	855	872	250
25°	806	812	812	797	800	374
35°	724	719	720	709	716	452
45°	611	605	602	597	594	469
55°	479	475	472	462	466	425
65°	328	321	319	310	312	321
75°	166	160	155	147	145	174
85°	24	22	17	14	12	34
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	911.6	911.6	911.6	911.6	911.6
2.5°	905.3	912.6	904.3	902.2	903.2
5°	909.5	903.2	899.1	900.1	901.2
7.5°	905.3	900.1	905.3	895.9	900.1
10°	897.0	893.9	902.2	894.9	890.7
12.5°	889.7	884.5	878.2	879.3	882.4
15°	889.7	869.9	875.1	855.3	871.9
17.5°	884.5	858.4	860.5	867.8	856.3
20°	846.9	843.8	846.9	844.8	842.7
22.5°	833.4	832.3	839.6	820.8	825.0
25°	806.2	812.5	811.5	796.9	800.0
27.5°	794.8	789.6	786.4	789.6	779.1
30°	763.5	768.7	770.8	765.6	763.5
32.5°	747.8	744.7	735.3	735.3	729.1
35°	723.8	718.6	719.7	709.2	716.5
37.5°	697.8	691.5	695.7	679.0	690.5
40°	664.4	666.5	661.3	661.3	661.3
42.5°	638.3	636.2	632.1	622.7	633.1
45°	611.2	604.9	601.8	596.6	593.5
47.5°	575.7	573.7	572.6	561.1	562.2
50°	542.4	540.3	539.2	534.0	528.8
52.5°	503.8	502.7	505.9	498.6	500.6
55°	478.7	474.6	472.5	462.0	466.2
57.5°	442.2	431.8	436.0	426.6	429.7
60°	404.7	400.5	397.4	387.0	395.3
62.5°	367.1	359.8	357.7	350.4	346.3
65°	327.5	321.2	319.2	309.8	311.9
67.5°	278.5	283.7	280.6	271.2	270.1
70°	242.0	242.0	236.8	229.5	228.4
72.5°	204.4	201.3	197.1	189.8	186.7
75°	165.8	159.6	155.4	147.1	145.0
77.5°	126.2	121.0	115.8	108.5	107.4
80°	85.5	82.4	76.1	69.9	70.9
82.5°	53.2	50.1	43.8	38.6	38.6
85°	24.0	21.9	16.7	13.6	11.5
87.5°	5.2	4.2	3.1	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	25.6	27.3	26.0	27.6	27.9	25.5	27.1	25.9	27.5	27.8
	3H	27.4	28.9	27.8	29.2	29.5	27.2	28.7	27.6	29.0	29.4
	4H	28.0	29.4	28.4	29.7	30.1	27.7	29.1	28.1	29.5	29.8
	6H	28.4	29.7	28.8	30.0	30.4	28.0	29.3	28.4	29.7	30.1
	8H	28.5	29.7	28.9	30.1	30.5	28.1	29.3	28.5	29.7	30.1
	12H	28.5	29.7	28.9	30.1	30.5	28.1	29.2	28.5	29.6	30.1
4H	2H	26.3	27.6	26.6	28.0	28.4	26.2	27.5	26.6	27.9	28.3
	3H	28.2	29.4	28.6	29.8	30.2	28.0	29.2	28.4	29.6	30.0
	4H	28.9	30.0	29.4	30.4	30.8	28.7	29.7	29.1	30.1	30.6
	6H	29.4	30.3	29.9	30.8	31.2	29.1	30.0	29.5	30.4	30.9
	8H	29.5	30.4	30.0	30.8	31.3	29.1	30.0	29.6	30.4	30.9
	12H	29.6	30.4	30.1	30.8	31.3	29.1	29.9	29.6	30.4	30.8
8H	4H	29.2	30.0	29.6	30.5	30.9	28.9	29.8	29.4	30.2	30.7
	6H	29.7	30.4	30.2	30.9	31.4	29.4	30.1	29.9	30.6	31.1
	8H	29.9	30.5	30.4	31.0	31.5	29.5	30.1	30.0	30.6	31.1
	12H	30.0	30.5	30.5	31.0	31.6	29.5	30.1	30.0	30.6	31.1
12H	4H	29.2	30.0	29.7	30.4	30.9	29.0	29.7	29.4	30.2	30.7
	6H	29.8	30.4	30.3	30.9	31.4	29.4	30.1	29.9	30.5	31.1
	8H	29.9	30.5	30.5	31.0	31.6	29.5	30.1	30.0	30.6	31.1

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