

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: P1212282

Luminaire Tested: SEC2HSPLUGMWH-4000K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212282
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSPLUGMWH-4000K
Description: ACPlug SEL1500 Motion 2H WH at 4000K

Light Source:
Ballast/Driver: -

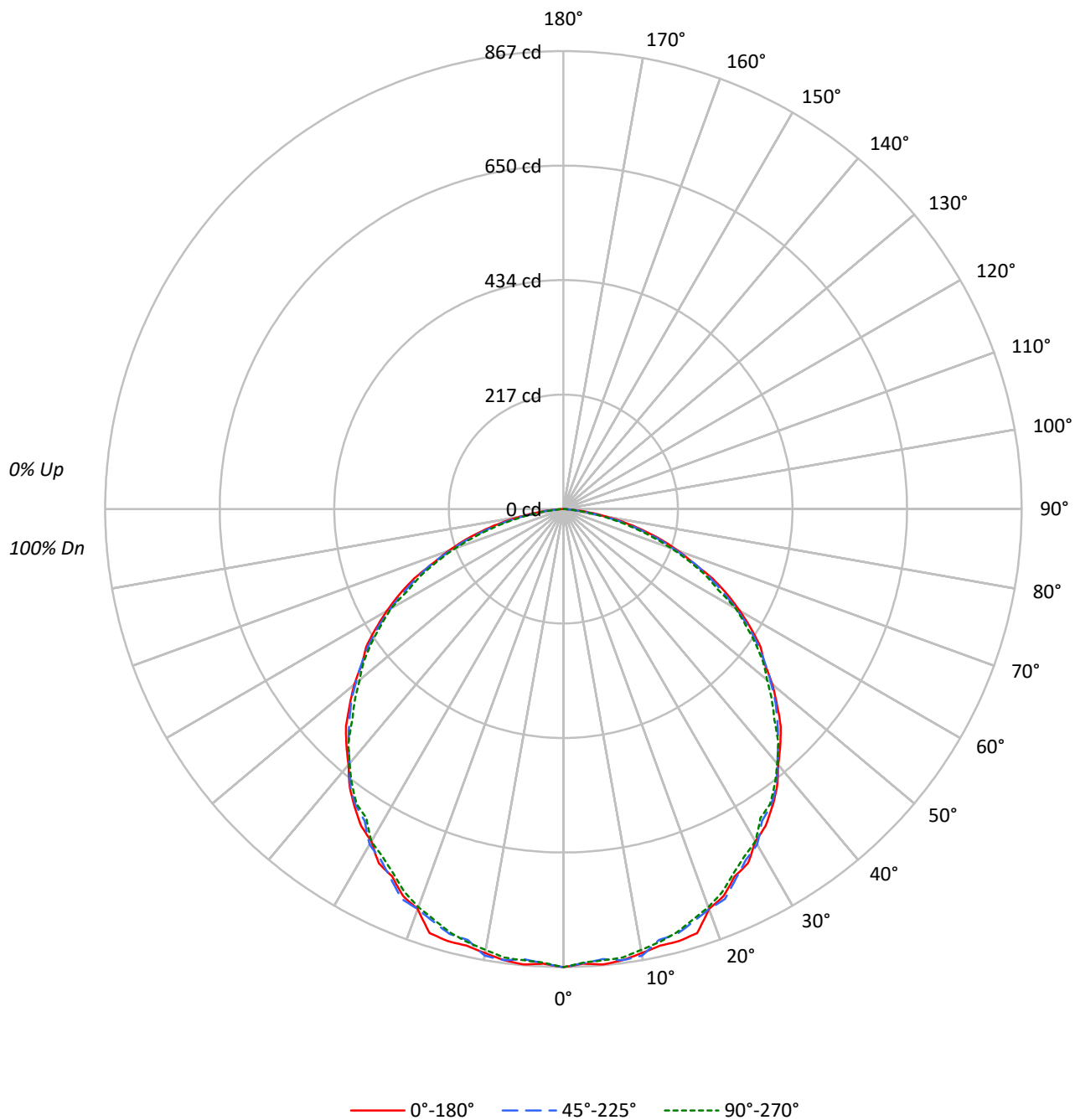
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2418.2 lumens
Efficiency: N/A
Efficacy: 120.9 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): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: >0.23
Total Harmonic Distortion (THDi): <34
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1212282
CATALOG NUMBER: SEC2HSPLUGMWH-4000K

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°	49795	49795	49795
5°	49870	49300	49415
10°	49753	50045	49409
15°	50316	49490	49311
20°	49234	49234	48990
25°	48596	48913	48216
30°	48159	48616	48159
35°	48272	47992	47782
40°	47377	47152	47152
45°	47218	46496	45846
50°	46093	45825	44941
55°	45600	44999	44399
60°	44215	43412	43193
65°	42327	41254	40317
70°	38655	37816	36490
75°	35001	32805	30609
80°	26911	23968	22315
85°	15018	10473	7180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 47218 cd/sqm

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CATALOG NUMBER: SEC2HSPLUGMWH-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	3.4
10°-20°	234.5	9.7
20°-30°	354.7	14.7
30°-40°	426.3	17.6
40°-50°	441.3	18.3
50°-60°	398.4	16.5
60°-70°	298.3	12.3
70°-80°	156.0	6.5
80°-90°	26.8	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°	671.1	27.8
0°-40°	1097.4	45.4
0°-60°	1937.1	80.1
0°-90°	2418.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2418.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	865	860	856	856	858	82
15°	847	828	833	814	830	238
25°	767	773	772	758	761	356
35°	689	684	685	675	682	430
45°	582	576	573	568	565	446
55°	456	452	450	440	444	404
65°	312	306	304	295	297	305
75°	158	152	148	140	138	166
85°	23	21	16	13	11	32
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	867.4	867.4	867.4	867.4	867.4
2.5°	861.5	868.4	860.5	858.5	859.5
5°	865.4	859.5	855.5	856.5	857.5
7.5°	861.5	856.5	861.5	852.5	856.5
10°	853.5	850.6	858.5	851.6	847.6
12.5°	846.6	841.6	835.7	836.7	839.6
15°	846.6	827.7	832.7	813.8	829.7
17.5°	841.6	816.8	818.8	825.7	814.8
20°	805.9	802.9	805.9	803.9	801.9
22.5°	793.0	792.0	799.0	781.1	785.1
25°	767.2	773.1	772.2	758.3	761.2
27.5°	756.3	751.3	748.3	751.3	741.4
30°	726.5	731.5	733.4	728.5	726.5
32.5°	711.6	708.6	699.7	699.7	693.7
35°	688.8	683.8	684.8	674.9	681.8
37.5°	664.0	658.0	662.0	646.1	657.0
40°	632.2	634.2	629.2	629.2	629.2
42.5°	607.4	605.4	601.4	592.5	602.4
45°	581.6	575.6	572.7	567.7	564.7
47.5°	547.9	545.9	544.9	534.0	534.9
50°	516.1	514.1	513.1	508.2	503.2
52.5°	479.4	478.4	481.4	474.4	476.4
55°	455.6	451.6	449.6	439.7	443.6
57.5°	420.8	410.9	414.9	405.9	408.9
60°	385.1	381.1	378.1	368.2	376.2
62.5°	349.4	342.4	340.4	333.5	329.5
65°	311.6	305.7	303.7	294.8	296.8
67.5°	265.0	270.0	267.0	258.0	257.1
70°	230.3	230.3	225.3	218.3	217.4
72.5°	194.5	191.5	187.6	180.6	177.7
75°	157.8	151.9	147.9	139.9	138.0
77.5°	120.1	115.1	110.2	103.2	102.2
80°	81.4	78.4	72.5	66.5	67.5
82.5°	50.6	47.6	41.7	36.7	36.7
85°	22.8	20.8	15.9	12.9	10.9
87.5°	5.0	4.0	3.0	2.0	2.0
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	25.5	27.1	25.8	27.4	27.7	25.3	27.0	25.7	27.3	27.6
	3H	27.2	28.7	27.6	29.0	29.4	27.0	28.5	27.4	28.8	29.2
	4H	27.8	29.2	28.2	29.6	29.9	27.6	28.9	28.0	29.3	29.7
	6H	28.2	29.5	28.6	29.9	30.3	27.9	29.1	28.3	29.5	29.9
	8H	28.3	29.5	28.7	29.9	30.3	27.9	29.1	28.3	29.5	29.9
	12H	28.3	29.5	28.8	29.9	30.3	27.9	29.1	28.3	29.5	29.9
4H	2H	26.1	27.5	26.5	27.8	28.2	26.0	27.4	26.4	27.7	28.1
	3H	28.0	29.2	28.5	29.6	30.0	27.9	29.0	28.3	29.4	29.8
	4H	28.8	29.8	29.2	30.2	30.7	28.5	29.5	28.9	30.0	30.4
	6H	29.3	30.2	29.7	30.6	31.1	28.9	29.8	29.3	30.2	30.7
	8H	29.4	30.2	29.8	30.7	31.1	28.9	29.8	29.4	30.2	30.7
	12H	29.4	30.2	29.9	30.7	31.1	29.0	29.7	29.4	30.2	30.7
8H	4H	29.0	29.9	29.5	30.3	30.8	28.8	29.6	29.2	30.1	30.5
	6H	29.6	30.3	30.1	30.8	31.2	29.2	29.9	29.7	30.4	30.9
	8H	29.7	30.4	30.2	30.9	31.3	29.3	29.9	29.8	30.4	30.9
	12H	29.8	30.4	30.3	30.9	31.4	29.3	29.9	29.8	30.4	30.9
12H	4H	29.0	29.8	29.5	30.3	30.7	28.8	29.6	29.3	30.0	30.5
	6H	29.6	30.2	30.1	30.7	31.2	29.3	29.9	29.8	30.3	30.9
	8H	29.8	30.3	30.3	30.8	31.4	29.4	29.9	29.9	30.4	31.0

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