

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: P1212286

Luminaire Tested: SEC2HSPLUGMWH-5000K

Issue Date: 11/18/2025

Tested By:

Approved By:



Cooper Lighting Solutions laboratories have been accredited by National Voluntary Laboratory Accreditation Program (NVLAP) that it adheres to the requirements of ISO/IEC 17025:2005 and appropriate IESNA test methods. This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government. Results contained in this report are valid for luminaire sample tested, as supplied by requestor. Information related to the luminaire tested has been supplied by requestor and can affect the validity of the test results. Report shall not be reproduced except in full without approval of Cooper Lighting Solutions Lighting Laboratory. Test performed at address noted above.

Test Information

Test Method: LM-79-2019
Report Number: P1212286
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSPLUGMWH-5000K
Description: ACPlug SEL1500 Motion 2H WH at 5000K

Light Source:
Ballast/Driver: -

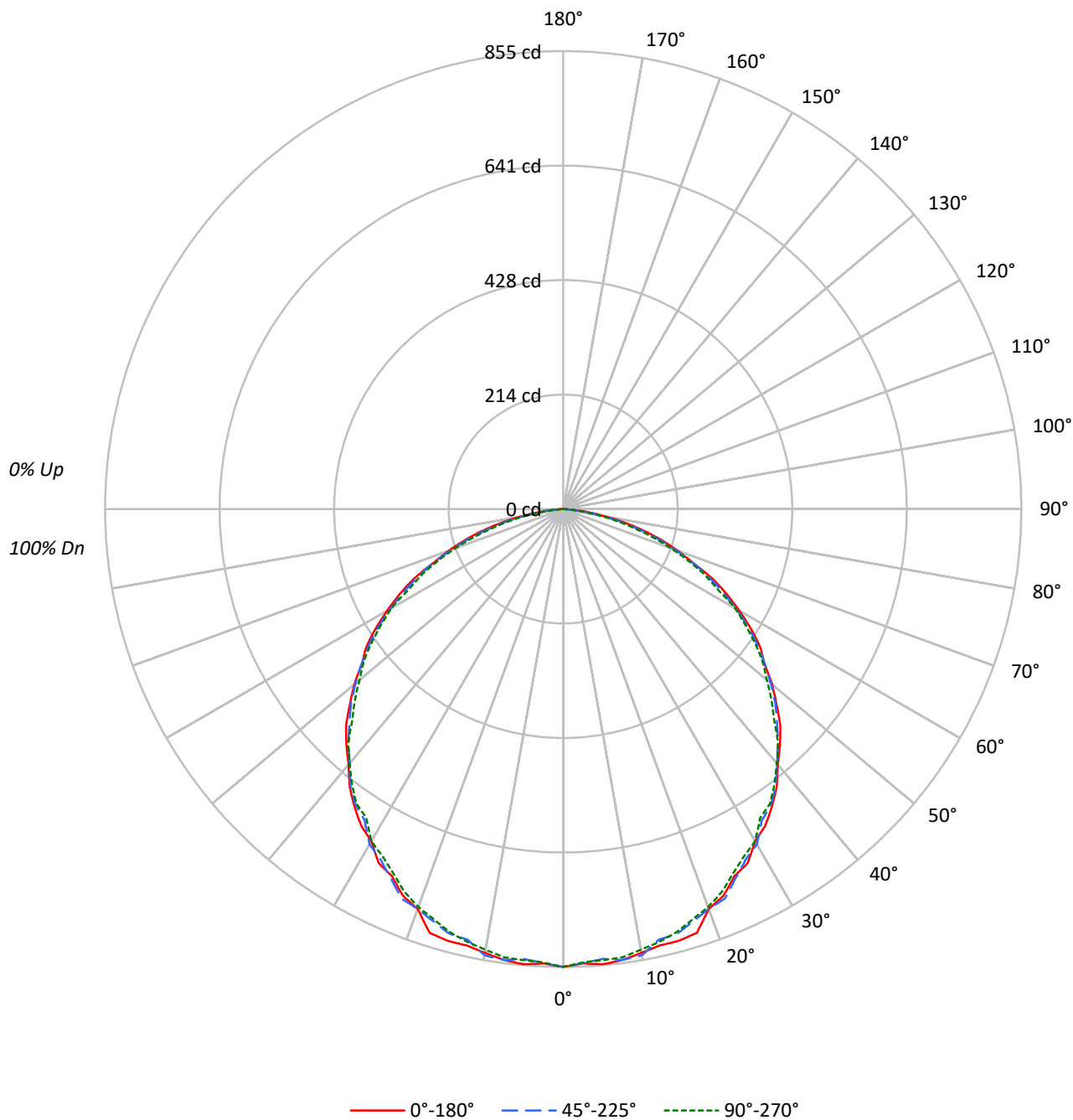
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2383.3 lumens
Efficiency: N/A
Efficacy: 108.8 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: >0.31
Total Harmonic Distortion (THDi): <42
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1212286
CATALOG NUMBER: SEC2HSPLUGMWH-5000K

Luminous Intensity Polar Plot



TEST NUMBER: P1212286

CATALOG NUMBER: SEC2HSPLUGMWH-5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20					20				20
RC	80				70				50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	49078	49078	49078
5°	49156	48591	48706
10°	49036	49322	48698
15°	49591	48776	48604
20°	48525	48525	48287
25°	47893	48203	47526
30°	47463	47920	47463
35°	47578	47305	47095
40°	46695	46478	46478
45°	46536	45822	45188
50°	45432	45164	44289
55°	44939	44349	43768
60°	43572	42792	42562
65°	41729	40656	39733
70°	38085	37262	35953
75°	34491	32339	30166
80°	26514	23605	21985
85°	14820	10341	7114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 46536 cd/sqm

TEST NUMBER: P1212286

CATALOG NUMBER: SEC2HSPLUGMWH-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	3.4
10°-20°	231.2	9.7
20°-30°	349.6	14.7
30°-40°	420.2	17.6
40°-50°	435.0	18.3
50°-60°	392.7	16.5
60°-70°	294.0	12.3
70°-80°	153.7	6.5
80°-90°	26.4	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°	661.4	27.8
0°-40°	1081.6	45.4
0°-60°	1909.2	80.1
0°-90°	2383.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2383.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	855	855	855	855	855	
5°	853	847	843	844	845	81
15°	834	816	821	802	818	235
25°	756	762	761	747	750	351
35°	679	674	675	665	672	424
45°	573	567	564	560	557	440
55°	449	445	443	433	437	398
65°	307	301	299	290	292	301
75°	156	150	146	138	136	163
85°	22	20	16	13	11	32
90°	0	0	0	0	0	

TEST NUMBER: P1212286

CATALOG NUMBER: SEC2HSPLUGMWH-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	854.9	854.9	854.9	854.9	854.9
2.5°	849.1	855.9	848.1	846.1	847.1
5°	853.0	847.1	843.2	844.2	845.2
7.5°	849.1	844.2	849.1	840.3	844.2
10°	841.2	838.3	846.1	839.3	835.4
12.5°	834.4	829.5	823.6	824.6	827.6
15°	834.4	815.8	820.7	802.1	817.8
17.5°	829.5	805.1	807.0	813.9	803.1
20°	794.3	791.4	794.3	792.3	790.4
22.5°	781.6	780.6	787.4	769.8	773.8
25°	756.1	762.0	761.0	747.3	750.3
27.5°	745.4	740.5	737.6	740.5	730.7
30°	716.0	720.9	722.9	718.0	716.0
32.5°	701.4	698.4	689.6	689.6	683.8
35°	678.9	674.0	675.0	665.2	672.0
37.5°	654.4	648.5	652.5	636.8	647.6
40°	623.1	625.1	620.2	620.2	620.2
42.5°	598.7	596.7	592.8	584.0	593.8
45°	573.2	567.4	564.4	559.5	556.6
47.5°	540.0	538.0	537.0	526.3	527.2
50°	508.7	506.7	505.7	500.8	495.9
52.5°	472.5	471.5	474.4	467.6	469.5
55°	449.0	445.1	443.1	433.3	437.3
57.5°	414.8	405.0	408.9	400.1	403.0
60°	379.5	375.6	372.7	362.9	370.7
62.5°	344.3	337.5	335.5	328.7	324.8
65°	307.2	301.3	299.3	290.5	292.5
67.5°	261.2	266.1	263.1	254.3	253.4
70°	226.9	226.9	222.0	215.2	214.2
72.5°	191.7	188.8	184.9	178.0	175.1
75°	155.5	149.7	145.8	137.9	136.0
77.5°	118.4	113.5	108.6	101.7	100.8
80°	80.2	77.3	71.4	65.5	66.5
82.5°	49.9	47.0	41.1	36.2	36.2
85°	22.5	20.5	15.7	12.7	10.8
87.5°	4.9	3.9	2.9	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212286

CATALOG NUMBER: SEC2HSPLUGMWH-5000K

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	25.4	27.0	25.8	27.3	27.7	25.3	26.9	25.7	27.2	27.5
	3H	27.2	28.6	27.5	29.0	29.3	27.0	28.4	27.3	28.8	29.1
	4H	27.8	29.2	28.2	29.5	29.9	27.5	28.9	27.9	29.2	29.6
	6H	28.2	29.5	28.6	29.8	30.2	27.8	29.1	28.2	29.4	29.8
	8H	28.3	29.5	28.7	29.9	30.3	27.8	29.1	28.3	29.5	29.9
	12H	28.3	29.5	28.7	29.8	30.3	27.8	29.0	28.3	29.4	29.8
4H	2H	26.0	27.4	26.4	27.8	28.1	25.9	27.3	26.3	27.7	28.0
	3H	28.0	29.2	28.4	29.5	29.9	27.8	29.0	28.2	29.4	29.8
	4H	28.7	29.8	29.2	30.2	30.6	28.4	29.5	28.9	29.9	30.3
	6H	29.2	30.1	29.7	30.6	31.0	28.8	29.7	29.3	30.2	30.6
	8H	29.3	30.2	29.8	30.6	31.1	28.9	29.7	29.4	30.2	30.7
	12H	29.4	30.1	29.8	30.6	31.1	28.9	29.7	29.4	30.1	30.6
8H	4H	29.0	29.8	29.4	30.3	30.7	28.7	29.6	29.2	30.0	30.5
	6H	29.5	30.2	30.0	30.7	31.2	29.2	29.9	29.7	30.4	30.8
	8H	29.7	30.3	30.2	30.8	31.3	29.3	29.9	29.8	30.4	30.9
	12H	29.8	30.3	30.3	30.8	31.4	29.3	29.8	29.8	30.3	30.9
12H	4H	29.0	29.7	29.5	30.2	30.7	28.7	29.5	29.2	30.0	30.4
	6H	29.5	30.2	30.1	30.6	31.2	29.2	29.8	29.7	30.3	30.8
	8H	29.7	30.3	30.2	30.8	31.3	29.3	29.9	29.8	30.4	30.9

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



(END OF REPORT)