

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: P1212274

Luminaire Tested: SEC2HSPLUGMWH-2700K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212274
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSPLUGMWH-2700K
Description: ACPlug SEL1500 Motion 2H WH at 2700K

Light Source:
Ballast/Driver: -

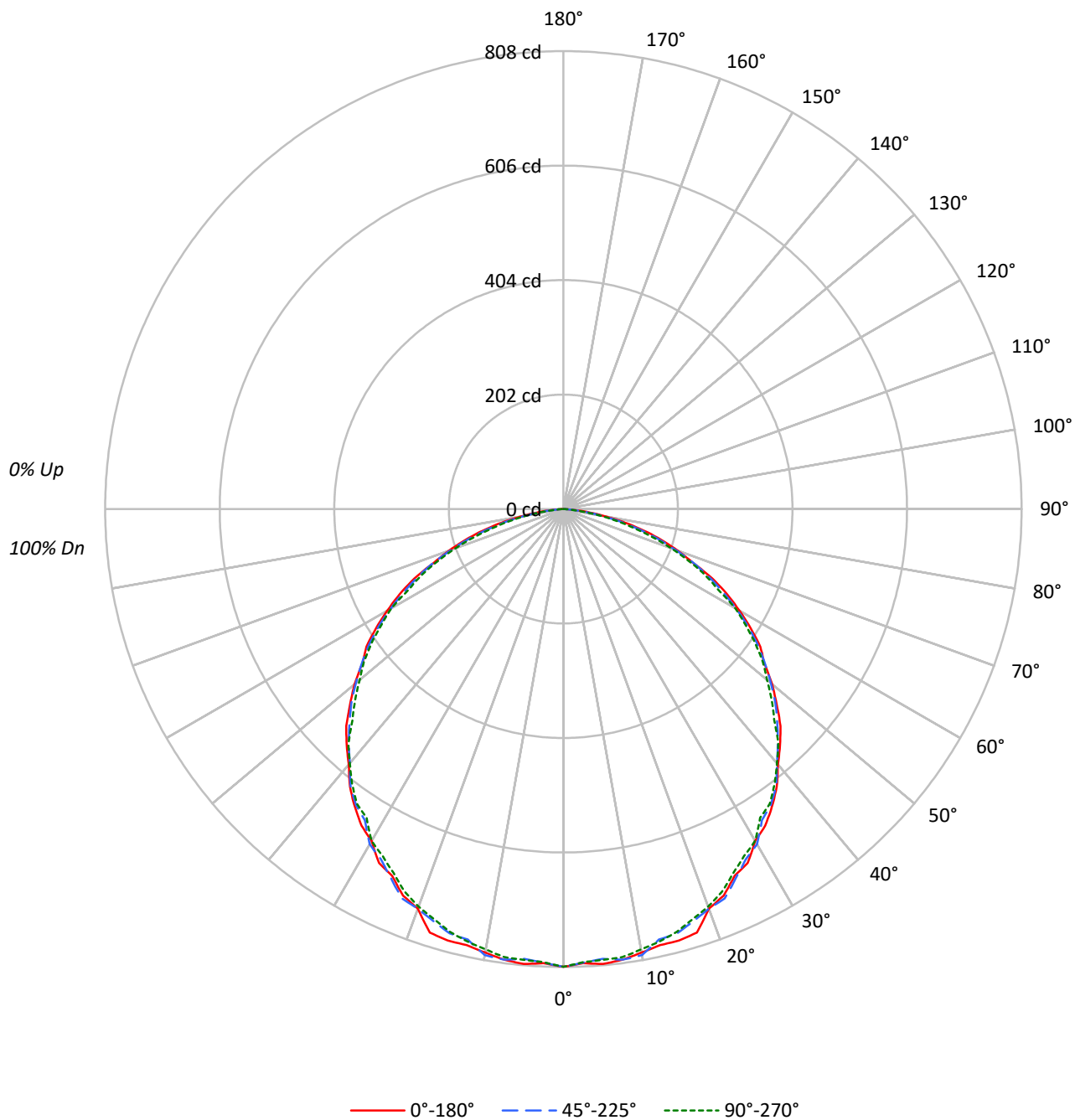
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2251.2 lumens
Efficiency: N/A
Efficacy: 102.8 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: >0.9
Total Harmonic Distortion (THDi): <20
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°	46362	46362	46362
5°	46430	45900	46004
10°	46320	46588	45999
15°	46839	46072	45906
20°	45837	45837	45611
25°	45239	45530	44891
30°	44831	45262	44831
35°	44936	44677	44488
40°	44110	43900	43900
45°	43954	43281	42680
50°	42914	42664	41842
55°	42447	41896	41336
60°	41161	40415	40208
65°	39407	38401	37532
70°	35987	35198	33956
75°	32583	30543	28480
80°	25059	22282	20761
85°	14030	9748	6719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 43954 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	3.4
10°-20°	218.3	9.7
20°-30°	330.2	14.7
30°-40°	396.9	17.6
40°-50°	410.9	18.3
50°-60°	370.9	16.5
60°-70°	277.7	12.3
70°-80°	145.2	6.5
80°-90°	25.0	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°	624.8	27.8
0°-40°	1021.6	45.4
0°-60°	1803.4	80.1
0°-90°	2251.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2251.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	806	800	796	797	798	77
15°	788	771	775	758	772	222
25°	714	720	719	706	709	331
35°	641	637	638	628	635	400
45°	541	536	533	528	526	415
55°	424	420	419	409	413	376
65°	290	285	283	274	276	284
75°	147	141	138	130	128	154
85°	21	19	15	12	10	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	807.6	807.6	807.6	807.6	807.6
2.5°	802.0	808.5	801.1	799.2	800.2
5°	805.7	800.2	796.5	797.4	798.3
7.5°	802.0	797.4	802.0	793.7	797.4
10°	794.6	791.8	799.2	792.8	789.1
12.5°	788.1	783.5	778.0	778.9	781.7
15°	788.1	770.6	775.2	757.7	772.4
17.5°	783.5	760.4	762.3	768.7	758.6
20°	750.3	747.5	750.3	748.4	746.6
22.5°	738.3	737.3	743.8	727.2	730.9
25°	714.2	719.8	718.8	705.9	708.7
27.5°	704.1	699.4	696.7	699.4	690.2
30°	676.3	681.0	682.8	678.2	676.3
32.5°	662.5	659.7	651.4	651.4	645.9
35°	641.2	636.6	637.5	628.3	634.8
37.5°	618.1	612.6	616.3	601.5	611.7
40°	588.6	590.4	585.8	585.8	585.8
42.5°	565.5	563.6	559.9	551.6	560.9
45°	541.4	535.9	533.1	528.5	525.7
47.5°	510.0	508.2	507.3	497.1	498.0
50°	480.5	478.6	477.7	473.1	468.5
52.5°	446.3	445.4	448.1	441.7	443.5
55°	424.1	420.4	418.6	409.3	413.0
57.5°	391.8	382.5	386.2	377.9	380.7
60°	358.5	354.8	352.0	342.8	350.2
62.5°	325.2	318.8	316.9	310.5	306.8
65°	290.1	284.6	282.7	274.4	276.3
67.5°	246.7	251.3	248.5	240.2	239.3
70°	214.4	214.4	209.7	203.3	202.3
72.5°	181.1	178.3	174.6	168.2	165.4
75°	146.9	141.4	137.7	130.3	128.4
77.5°	111.8	107.2	102.6	96.1	95.2
80°	75.8	73.0	67.4	61.9	62.8
82.5°	47.1	44.4	38.8	34.2	34.2
85°	21.3	19.4	14.8	12.0	10.2
87.5°	4.6	3.7	2.8	1.8	1.8
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	25.2	26.8	25.6	27.1	27.5	25.1	26.7	25.5	27.0	27.3
	3H	27.0	28.4	27.3	28.8	29.1	26.8	28.2	27.1	28.6	28.9
	4H	27.6	29.0	28.0	29.3	29.7	27.3	28.7	27.7	29.0	29.4
	6H	28.0	29.3	28.4	29.6	30.0	27.6	28.9	28.0	29.3	29.6
	8H	28.1	29.3	28.5	29.7	30.1	27.7	28.9	28.1	29.3	29.7
	12H	28.1	29.3	28.5	29.6	30.1	27.6	28.8	28.1	29.2	29.6
4H	2H	25.8	27.2	26.2	27.6	27.9	25.7	27.1	26.1	27.5	27.8
	3H	27.8	29.0	28.2	29.3	29.7	27.6	28.8	28.0	29.2	29.6
	4H	28.5	29.6	29.0	30.0	30.4	28.3	29.3	28.7	29.7	30.1
	6H	29.0	29.9	29.5	30.4	30.8	28.6	29.5	29.1	30.0	30.4
	8H	29.1	30.0	29.6	30.4	30.9	28.7	29.5	29.2	30.0	30.5
	12H	29.2	29.9	29.7	30.4	30.9	28.7	29.5	29.2	29.9	30.4
8H	4H	28.8	29.6	29.2	30.1	30.5	28.5	29.4	29.0	29.8	30.3
	6H	29.3	30.0	29.8	30.5	31.0	29.0	29.7	29.5	30.2	30.6
	8H	29.5	30.1	30.0	30.6	31.1	29.1	29.7	29.6	30.2	30.7
	12H	29.6	30.1	30.1	30.6	31.2	29.1	29.6	29.6	30.1	30.7
12H	4H	28.8	29.5	29.3	30.0	30.5	28.5	29.3	29.0	29.8	30.2
	6H	29.3	30.0	29.9	30.4	31.0	29.0	29.6	29.5	30.1	30.6
	8H	29.5	30.1	30.0	30.6	31.1	29.1	29.7	29.6	30.2	30.7

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