

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: P1212285

Luminaire Tested: SEC2HSHWMWH-5000K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212285
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSHWMWH-5000K
Description: 120V SEL 2500 Motion 2H WH at 5000K

Light Source:
Ballast/Driver: -

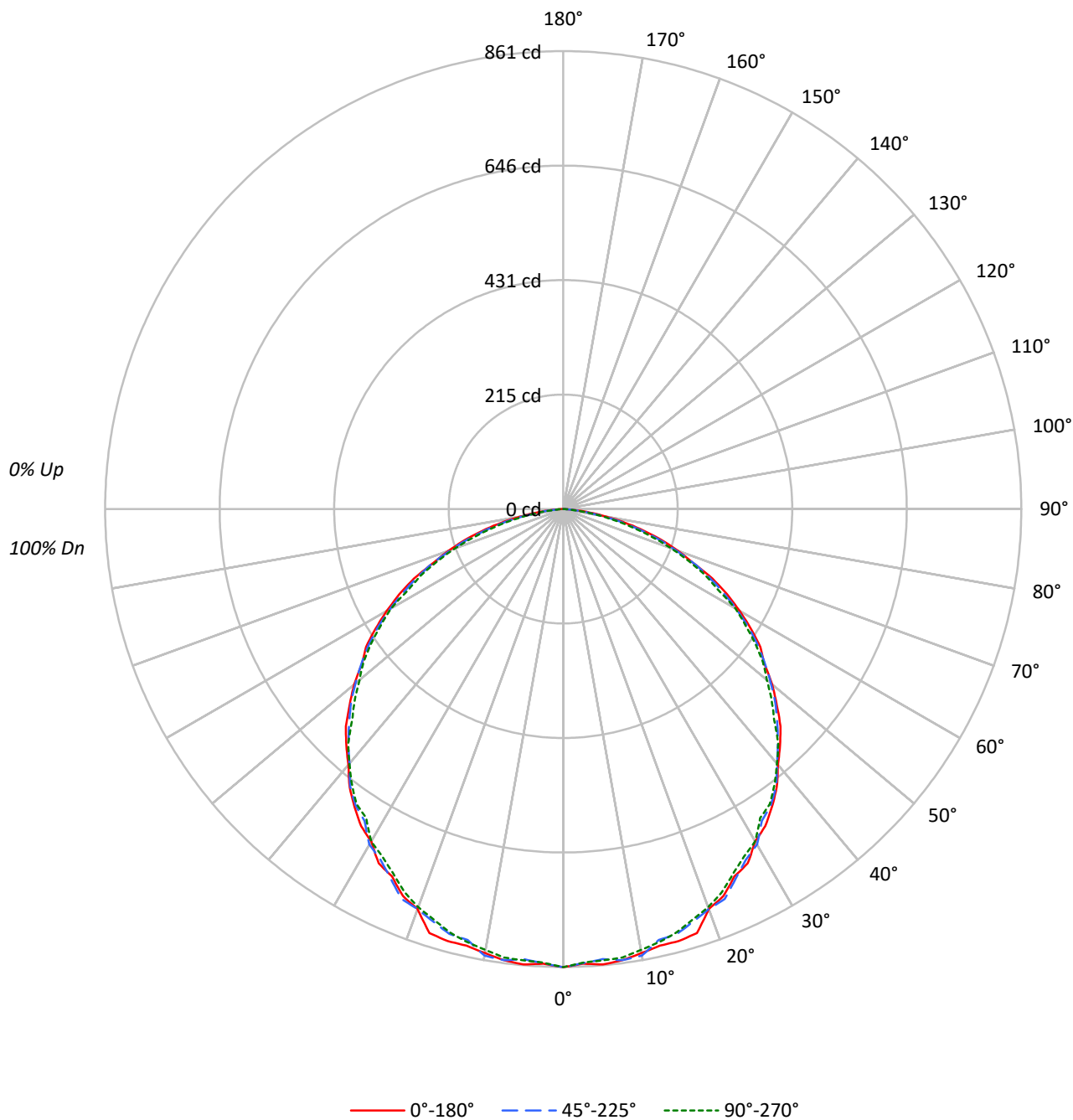
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2401.4 lumens
Efficiency: N/A
Efficacy: 109.7 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: >0.29
Total Harmonic Distortion (THDi): <40
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°	49451	49451	49451
5°	49530	48960	49075
10°	49409	49701	49065
15°	49965	49145	48973
20°	48892	48892	48654
25°	48260	48571	47887
30°	47827	48285	47827
35°	47936	47663	47452
40°	47047	46830	46830
45°	46893	46171	45529
50°	45772	45513	44628
55°	45279	44689	44098
60°	43905	43113	42883
65°	42042	40969	40031
70°	38387	37548	36238
75°	34757	32583	30387
80°	26712	23803	22150
85°	14952	10407	7114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 46893 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	3.4
10°-20°	232.9	9.7
20°-30°	352.2	14.7
30°-40°	423.4	17.6
40°-50°	438.3	18.3
50°-60°	395.6	16.5
60°-70°	296.2	12.3
70°-80°	154.9	6.5
80°-90°	26.6	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°	666.4	27.8
0°-40°	1089.8	45.4
0°-60°	1923.7	80.1
0°-90°	2401.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2401.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	860	854	850	851	852	82
15°	841	822	827	808	824	236
25°	762	768	767	753	756	353
35°	684	679	680	670	677	427
45°	578	572	569	564	561	443
55°	452	448	446	437	441	401
65°	310	304	302	293	295	303
75°	157	151	147	139	137	164
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°	861.4	861.4	861.4	861.4	861.4
2.5°	855.5	862.4	854.5	852.6	853.5
5°	859.5	853.5	849.6	850.6	851.6
7.5°	855.5	850.6	855.5	846.6	850.6
10°	847.6	844.7	852.6	845.7	841.7
12.5°	840.7	835.8	829.9	830.9	833.8
15°	840.7	822.0	826.9	808.2	824.0
17.5°	835.8	811.2	813.1	820.0	809.2
20°	800.3	797.4	800.3	798.4	796.4
22.5°	787.5	786.5	793.4	775.7	779.6
25°	761.9	767.8	766.8	753.0	756.0
27.5°	751.0	746.1	743.2	746.1	736.3
30°	721.5	726.4	728.4	723.4	721.5
32.5°	706.7	703.7	694.9	694.9	688.9
35°	684.0	679.1	680.1	670.2	677.1
37.5°	659.4	653.5	657.4	641.6	652.5
40°	627.8	629.8	624.9	624.9	624.9
42.5°	603.2	601.2	597.3	588.4	598.3
45°	577.6	571.7	568.7	563.8	560.8
47.5°	544.1	542.1	541.1	530.3	531.2
50°	512.5	510.6	509.6	504.6	499.7
52.5°	476.1	475.1	478.0	471.1	473.1
55°	452.4	448.5	446.5	436.6	440.6
57.5°	417.9	408.0	412.0	403.1	406.1
60°	382.4	378.5	375.5	365.7	373.5
62.5°	346.9	340.0	338.1	331.2	327.2
65°	309.5	303.6	301.6	292.7	294.7
67.5°	263.2	268.1	265.1	256.3	255.3
70°	228.7	228.7	223.7	216.8	215.9
72.5°	193.2	190.2	186.3	179.4	176.4
75°	156.7	150.8	146.9	139.0	137.0
77.5°	119.3	114.3	109.4	102.5	101.5
80°	80.8	77.9	72.0	66.0	67.0
82.5°	50.3	47.3	41.4	36.5	36.5
85°	22.7	20.7	15.8	12.8	10.8
87.5°	4.9	3.9	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	25.4	27.1	25.8	27.4	27.7	25.3	26.9	25.7	27.3	27.6
	3H	27.2	28.7	27.6	29.0	29.3	27.0	28.5	27.4	28.8	29.2
	4H	27.8	29.2	28.2	29.5	29.9	27.5	28.9	27.9	29.3	29.6
	6H	28.2	29.5	28.6	29.8	30.2	27.8	29.1	28.2	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	28.7	29.9	30.3	27.9	29.0	28.3	29.4	29.9
4H	2H	26.1	27.4	26.5	27.8	28.2	26.0	27.3	26.4	27.7	28.1
	3H	28.0	29.2	28.4	29.6	30.0	27.8	29.0	28.3	29.4	29.8
	4H	28.7	29.8	29.2	30.2	30.6	28.5	29.5	28.9	29.9	30.4
	6H	29.2	30.1	29.7	30.6	31.0	28.9	29.8	29.3	30.2	30.7
	8H	29.3	30.2	29.8	30.6	31.1	28.9	29.8	29.4	30.2	30.7
	12H	29.4	30.2	29.9	30.6	31.1	28.9	29.7	29.4	30.2	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	30.3	30.0	30.7	31.2	29.2	29.9	29.7	30.4	30.9
	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	29.9	29.8	30.4	30.9
12H	4H	29.0	29.8	29.5	30.2	30.7	28.8	29.5	29.2	30.0	30.5
	6H	29.6	30.2	30.1	30.7	31.2	29.2	29.9	29.7	30.3	30.9
	8H	29.7	30.3	30.3	30.8	31.4	29.3	29.9	29.8	30.4	30.9

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