

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: P1212277

Luminaire Tested: SEC2HSHWMWH-3000K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212277
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSHWMWH-3000K
Description: 120V SEL 2500 Motion 2H WH at 3000K

Light Source:
Ballast/Driver: -

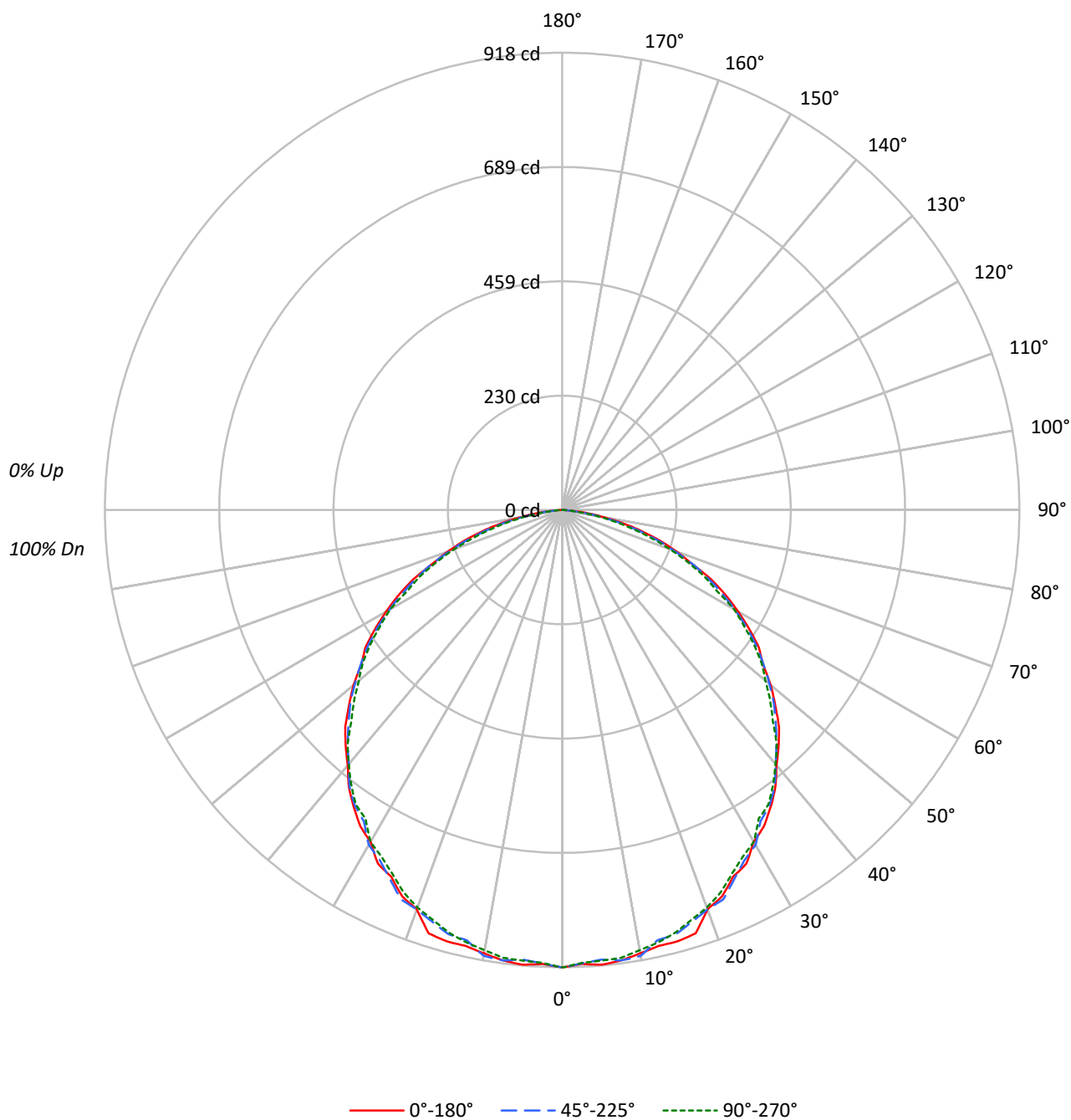
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2560.5 lumens
Efficiency: N/A
Efficacy: 116.9 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): 21.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: >0.13
Total Harmonic Distortion (THDi): <24
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°	52729	52729	52729
5°	52809	52204	52325
10°	52685	52988	52318
15°	53275	52402	52218
20°	52130	52130	51873
25°	51459	51789	51060
30°	50996	51480	50996
35°	51111	50816	50599
40°	50165	49933	49933
45°	49995	49232	48550
50°	48808	48522	47585
55°	48282	47651	47021
60°	46822	45972	45731
65°	44826	43685	42680
70°	40921	40049	38639
75°	37064	34735	32406
80°	28497	25357	23638
85°	15940	11066	7641

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 49995 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	3.4
10°-20°	248.3	9.7
20°-30°	375.6	14.7
30°-40°	451.4	17.6
40°-50°	467.3	18.3
50°-60°	421.9	16.5
60°-70°	315.8	12.3
70°-80°	165.2	6.5
80°-90°	28.4	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°	710.6	27.8
0°-40°	1162.0	45.4
0°-60°	2051.2	80.1
0°-90°	2560.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2560.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	916	910	906	907	908	87
15°	896	876	882	862	879	252
25°	812	819	818	803	806	377
35°	729	724	725	715	722	455
45°	616	610	606	601	598	472
55°	482	478	476	466	470	428
65°	330	324	322	312	314	323
75°	167	161	157	148	146	175
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°	918.5	918.5	918.5	918.5	918.5
2.5°	912.2	919.6	911.1	909.0	910.1
5°	916.4	910.1	905.9	906.9	908.0
7.5°	912.2	906.9	912.2	902.7	906.9
10°	903.8	900.6	909.0	901.7	897.5
12.5°	896.4	891.2	884.9	885.9	889.1
15°	896.4	876.5	881.7	861.8	878.6
17.5°	891.2	864.9	867.0	874.4	862.8
20°	853.3	850.2	853.3	851.2	849.1
22.5°	839.7	838.6	846.0	827.1	831.3
25°	812.4	818.7	817.6	802.9	806.1
27.5°	800.8	795.5	792.4	795.5	785.0
30°	769.3	774.5	776.6	771.4	769.3
32.5°	753.5	750.4	740.9	740.9	734.6
35°	729.3	724.1	725.1	714.6	722.0
37.5°	703.1	696.8	701.0	684.1	695.7
40°	669.4	671.5	666.3	666.3	666.3
42.5°	643.2	641.1	636.9	627.4	637.9
45°	615.8	609.5	606.4	601.1	598.0
47.5°	580.1	578.0	577.0	565.4	566.4
50°	546.5	544.4	543.3	538.1	532.8
52.5°	507.6	506.5	509.7	502.3	504.4
55°	482.4	478.2	476.1	465.6	469.8
57.5°	445.6	435.1	439.3	429.8	433.0
60°	407.8	403.6	400.4	389.9	398.3
62.5°	369.9	362.6	360.5	353.1	348.9
65°	330.0	323.7	321.6	312.1	314.2
67.5°	280.6	285.9	282.7	273.2	272.2
70°	243.8	243.8	238.6	231.2	230.2
72.5°	206.0	202.8	198.6	191.3	188.1
75°	167.1	160.8	156.6	148.2	146.1
77.5°	127.2	121.9	116.7	109.3	108.2
80°	86.2	83.0	76.7	70.4	71.5
82.5°	53.6	50.4	44.1	38.9	38.9
85°	24.2	22.1	16.8	13.7	11.6
87.5°	5.3	4.2	3.2	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	25.7	27.3	26.0	27.6	27.9	25.5	27.2	25.9	27.5	27.8
	3H	27.4	28.9	27.8	29.2	29.6	27.2	28.7	27.6	29.0	29.4
	4H	28.0	29.4	28.4	29.8	30.1	27.8	29.1	28.2	29.5	29.9
	6H	28.4	29.7	28.8	30.1	30.5	28.1	29.3	28.5	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	29.0	30.1	30.5	28.1	29.3	28.5	29.7	30.1
4H	2H	26.3	27.7	26.7	28.0	28.4	26.2	27.6	26.6	27.9	28.3
	3H	28.2	29.4	28.7	29.8	30.2	28.1	29.2	28.5	29.6	30.0
	4H	29.0	30.0	29.4	30.4	30.9	28.7	29.7	29.1	30.2	30.6
	6H	29.5	30.4	29.9	30.8	31.3	29.1	30.0	29.5	30.4	30.9
	8H	29.6	30.4	30.0	30.9	31.3	29.1	30.0	29.6	30.4	30.9
	12H	29.6	30.4	30.1	30.9	31.3	29.2	29.9	29.6	30.4	30.9
8H	4H	29.2	30.1	29.7	30.5	31.0	29.0	29.8	29.4	30.3	30.7
	6H	29.8	30.5	30.3	31.0	31.4	29.4	30.1	29.9	30.6	31.1
	8H	29.9	30.6	30.4	31.1	31.5	29.5	30.1	30.0	30.6	31.1
	12H	30.0	30.6	30.5	31.1	31.6	29.5	30.1	30.0	30.6	31.1
12H	4H	29.2	30.0	29.7	30.5	30.9	29.0	29.7	29.5	30.2	30.7
	6H	29.8	30.4	30.3	30.9	31.4	29.4	30.1	30.0	30.5	31.1
	8H	30.0	30.5	30.5	31.0	31.6	29.6	30.1	30.1	30.6	31.2

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