

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: P1212289

Luminaire Tested: SEC2HSHWMWH-6500K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212289
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSHWMWH-6500K
Description: 120V SEL 2500 Motion 2H WH at 6500K

Light Source:
Ballast/Driver: -

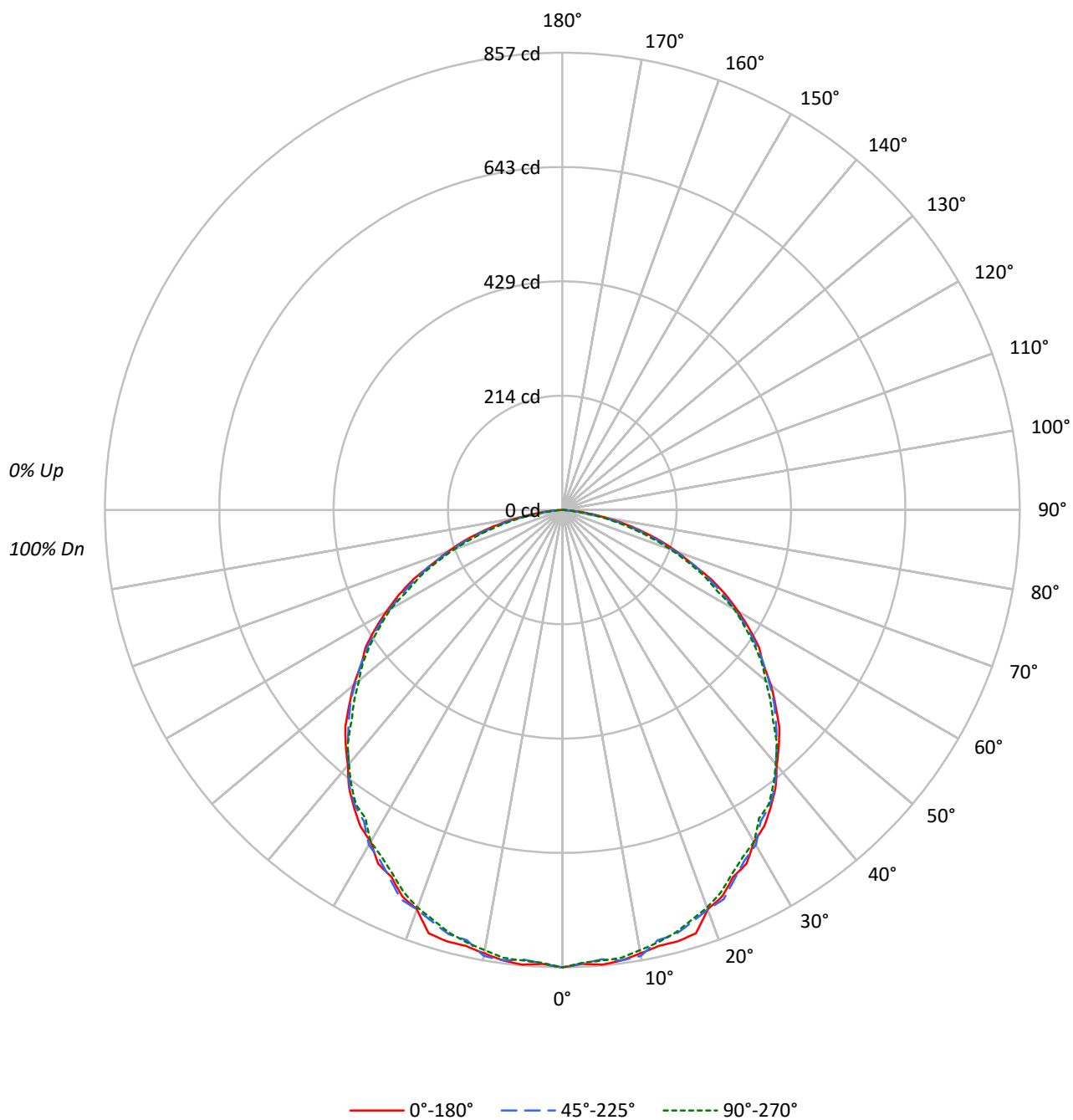
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2390.2 lumens
Efficiency: N/A
Efficacy: 109.1 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: >0.37
Total Harmonic Distortion (THDi): <48
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1212289
CATALOG NUMBER: SEC2HSHWMWH-6500K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	49221	49221	49221
5°	49294	48729	48845
10°	49182	49468	48838
15°	49733	48919	48741
20°	48666	48666	48427
25°	48032	48343	47659
30°	47602	48059	47602
35°	47712	47438	47235
40°	46830	46613	46613
45°	46674	45952	45318
50°	45557	45298	44423
55°	45069	44479	43888
60°	43699	42918	42688
65°	41838	40779	39841
70°	38202	37380	36054
75°	34602	32428	30254
80°	26580	23671	22051
85°	14886	10341	7114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 46674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	3.4
10°-20°	231.8	9.7
20°-30°	350.6	14.7
30°-40°	421.4	17.6
40°-50°	436.2	18.3
50°-60°	393.8	16.5
60°-70°	294.8	12.3
70°-80°	154.2	6.4
80°-90°	26.5	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°	663.3	27.8
0°-40°	1084.7	45.4
0°-60°	1914.7	80.1
0°-90°	2390.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2390.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	855	850	846	847	848	81
15°	837	818	823	804	820	235
25°	758	764	763	750	752	352
35°	681	676	677	667	674	425
45°	575	569	566	561	558	441
55°	450	446	444	435	438	399
65°	308	302	300	291	293	302
75°	156	150	146	138	136	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°	857.4	857.4	857.4	857.4	857.4
2.5°	851.5	858.4	850.5	848.6	849.6
5°	855.4	849.6	845.6	846.6	847.6
7.5°	851.5	846.6	851.5	842.7	846.6
10°	843.7	840.7	848.6	841.7	837.8
12.5°	836.8	831.9	826.0	827.0	829.9
15°	836.8	818.2	823.1	804.4	820.1
17.5°	831.9	807.4	809.3	816.2	805.4
20°	796.6	793.6	796.6	794.6	792.7
22.5°	783.8	782.9	789.7	772.1	776.0
25°	758.3	764.2	763.2	749.5	752.4
27.5°	747.5	742.6	739.7	742.6	732.8
30°	718.1	723.0	725.0	720.1	718.1
32.5°	703.4	700.4	691.6	691.6	685.7
35°	680.8	675.9	676.9	667.1	674.0
37.5°	656.3	650.4	654.3	638.6	649.4
40°	624.9	626.9	622.0	622.0	622.0
42.5°	600.4	598.4	594.5	585.7	595.5
45°	574.9	569.0	566.0	561.1	558.2
47.5°	541.5	539.6	538.6	527.8	528.8
50°	510.1	508.2	507.2	502.3	497.4
52.5°	473.8	472.9	475.8	468.9	470.9
55°	450.3	446.4	444.4	434.6	438.5
57.5°	416.0	406.1	410.1	401.2	404.2
60°	380.6	376.7	373.8	364.0	371.8
62.5°	345.3	338.5	336.5	329.6	325.7
65°	308.0	302.2	300.2	291.4	293.3
67.5°	261.9	266.8	263.9	255.1	254.1
70°	227.6	227.6	222.7	215.8	214.8
72.5°	192.3	189.3	185.4	178.5	175.6
75°	156.0	150.1	146.2	138.3	136.4
77.5°	118.7	113.8	108.9	102.0	101.0
80°	80.4	77.5	71.6	65.7	66.7
82.5°	50.0	47.1	41.2	36.3	36.3
85°	22.6	20.6	15.7	12.8	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

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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	27.0	25.8	27.4	27.7	25.3	26.9	25.7	27.2	27.6
	3H	27.2	28.6	27.6	29.0	29.3	27.0	28.5	27.4	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	29.5	29.8
	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	29.8
4H	2H	26.0	27.4	26.4	27.8	28.1	25.9	27.3	26.3	27.7	28.1
	3H	28.0	29.2	28.4	29.6	30.0	27.8	29.0	28.2	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	28.8	29.8	29.3	30.2	30.6
	8H	29.3	30.2	29.8	30.6	31.1	28.9	29.8	29.4	30.2	30.7
	12H	29.4	30.1	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	30.2	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	29.9	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	30.5
	6H	29.6	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

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