

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: P1212273

Luminaire Tested: SEC2HSHWMWH-2700K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212273
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSHWMWH-2700K
Description: 120V SEL 2500 Motion 2H WH at 2700K

Light Source:
Ballast/Driver: -

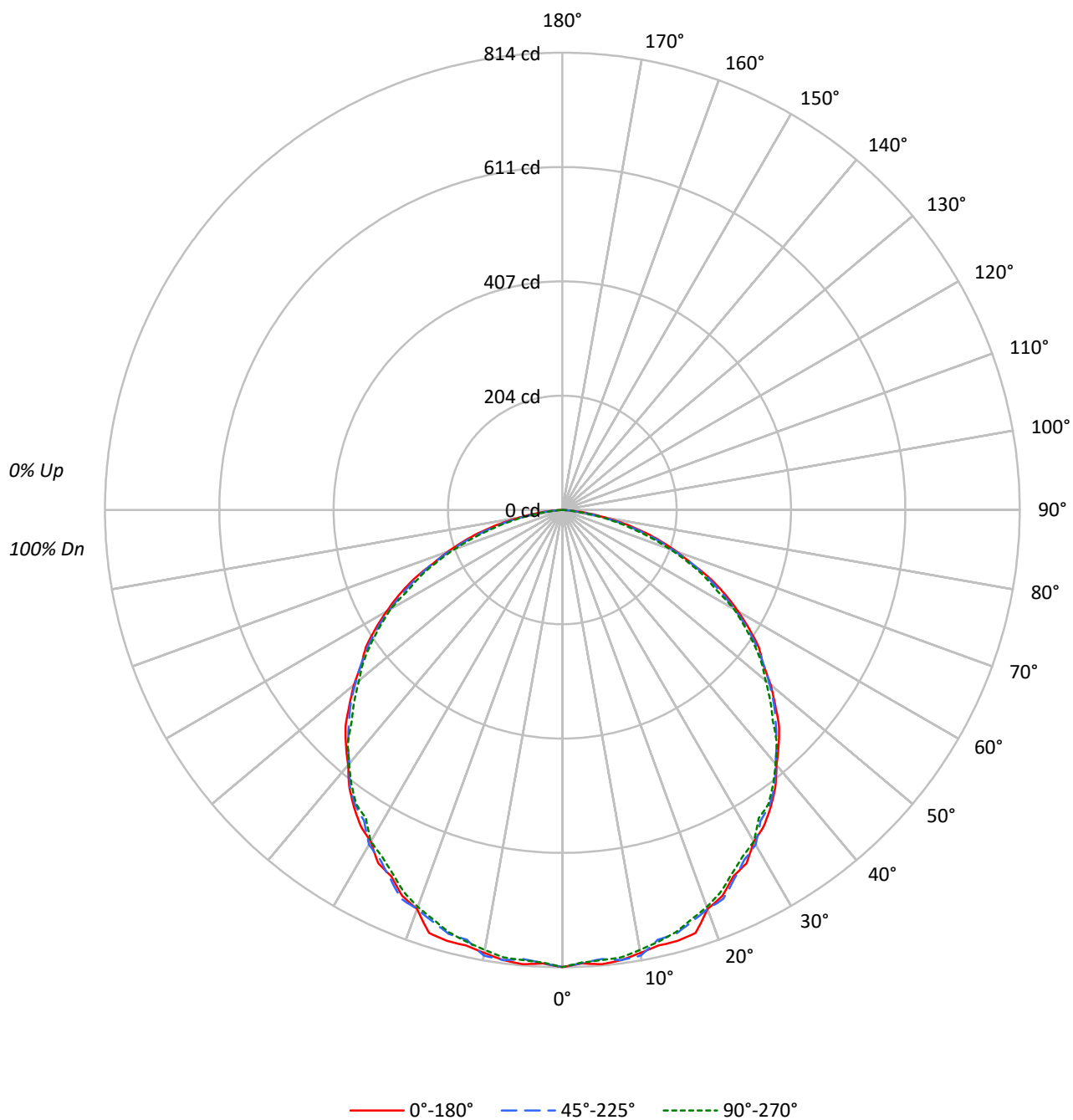
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2268.3 lumens
Efficiency: N/A
Efficacy: 103.6 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
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°	46713	46713	46713
5°	46781	46246	46355
10°	46669	46943	46349
15°	47195	46423	46256
20°	46185	46185	45953
25°	45587	45879	45233
30°	45176	45607	45176
35°	45280	45020	44824
40°	44440	44230	44230
45°	44295	43613	43005
50°	43235	42985	42154
55°	42767	42207	41656
60°	41471	40725	40507
65°	39705	38700	37817
70°	36255	35466	34224
75°	32827	30764	28702
80°	25225	22481	20927
85°	14096	9814	6719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 44295 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	3.4
10°-20°	220.0	9.7
20°-30°	332.7	14.7
30°-40°	399.9	17.6
40°-50°	414.0	18.3
50°-60°	373.7	16.5
60°-70°	279.8	12.3
70°-80°	146.3	6.4
80°-90°	25.1	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°	629.5	27.8
0°-40°	1029.4	45.4
0°-60°	1817.1	80.1
0°-90°	2268.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2268.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	814	814	814	814	814	
5°	812	806	802	803	804	77
15°	794	776	781	763	778	223
25°	720	725	724	711	714	334
35°	646	642	642	633	640	403
45°	546	540	537	532	530	419
55°	427	424	422	412	416	379
65°	292	287	285	276	278	286
75°	148	142	139	131	129	155
85°	21	20	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°	813.7	813.7	813.7	813.7	813.7
2.5°	808.1	814.6	807.2	805.3	806.2
5°	811.8	806.2	802.5	803.4	804.4
7.5°	808.1	803.4	808.1	799.7	803.4
10°	800.6	797.9	805.3	798.8	795.1
12.5°	794.1	789.5	783.9	784.8	787.6
15°	794.1	776.4	781.1	763.4	778.3
17.5°	789.5	766.2	768.1	774.6	764.3
20°	756.0	753.2	756.0	754.1	752.2
22.5°	743.9	742.9	749.4	732.7	736.4
25°	719.7	725.2	724.3	711.3	714.1
27.5°	709.4	704.8	702.0	704.8	695.4
30°	681.5	686.1	688.0	683.3	681.5
32.5°	667.5	664.7	656.3	656.3	650.8
35°	646.1	641.5	642.4	633.1	639.6
37.5°	622.8	617.2	621.0	606.1	616.3
40°	593.0	594.9	590.2	590.2	590.2
42.5°	569.8	567.9	564.2	555.8	565.1
45°	545.6	540.0	537.2	532.5	529.7
47.5°	513.9	512.0	511.1	500.9	501.8
50°	484.1	482.3	481.3	476.7	472.0
52.5°	449.7	448.7	451.5	445.0	446.9
55°	427.3	423.6	421.7	412.4	416.2
57.5°	394.7	385.4	389.2	380.8	383.6
60°	361.2	357.5	354.7	345.4	352.8
62.5°	327.7	321.2	319.3	312.8	309.1
65°	292.3	286.7	284.9	276.5	278.4
67.5°	248.6	253.2	250.4	242.1	241.1
70°	216.0	216.0	211.3	204.8	203.9
72.5°	182.5	179.7	176.0	169.4	166.6
75°	148.0	142.4	138.7	131.3	129.4
77.5°	112.6	108.0	103.3	96.8	95.9
80°	76.3	73.5	68.0	62.4	63.3
82.5°	47.5	44.7	39.1	34.4	34.4
85°	21.4	19.6	14.9	12.1	10.2
87.5°	4.7	3.7	2.8	1.9	1.9
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	26.9	25.6	27.2	27.5	25.1	26.7	25.5	27.1	27.4
	3H	27.0	28.5	27.4	28.8	29.2	26.8	28.3	27.2	28.6	29.0
	4H	27.6	29.0	28.0	29.3	29.7	27.3	28.7	27.7	29.1	29.4
	6H	28.0	29.3	28.4	29.6	30.0	27.6	28.9	28.0	29.3	29.7
	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	29.7	30.1	27.7	28.8	28.1	29.2	29.7
4H	2H	25.9	27.2	26.3	27.6	28.0	25.8	27.2	26.2	27.5	27.9
	3H	27.8	29.0	28.2	29.4	29.8	27.6	28.8	28.1	29.2	29.6
	4H	28.5	29.6	29.0	30.0	30.4	28.3	29.3	28.7	29.7	30.2
	6H	29.0	29.9	29.5	30.4	30.8	28.7	29.6	29.1	30.0	30.5
	8H	29.1	30.0	29.6	30.4	30.9	28.7	29.6	29.2	30.0	30.5
	12H	29.2	30.0	29.7	30.4	30.9	28.7	29.5	29.2	30.0	30.4
8H	4H	28.8	29.6	29.3	30.1	30.5	28.5	29.4	29.0	29.8	30.3
	6H	29.3	30.1	29.8	30.5	31.0	29.0	29.7	29.5	30.2	30.7
	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	29.7	29.6	30.2	30.7
12H	4H	28.8	29.6	29.3	30.0	30.5	28.6	29.3	29.0	29.8	30.3
	6H	29.4	30.0	29.9	30.5	31.0	29.0	29.7	29.5	30.1	30.7
	8H	29.5	30.1	30.1	30.6	31.2	29.1	29.7	29.6	30.2	30.7

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