

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: P1219829

Luminaire Tested: SEC2HSSOLMWH-2700K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219829
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSSOLMWH-2700K
Description: Solar SEL 1500 5CCT Motion 2H WH-2700K

Light Source:
Ballast/Driver: -

Summary

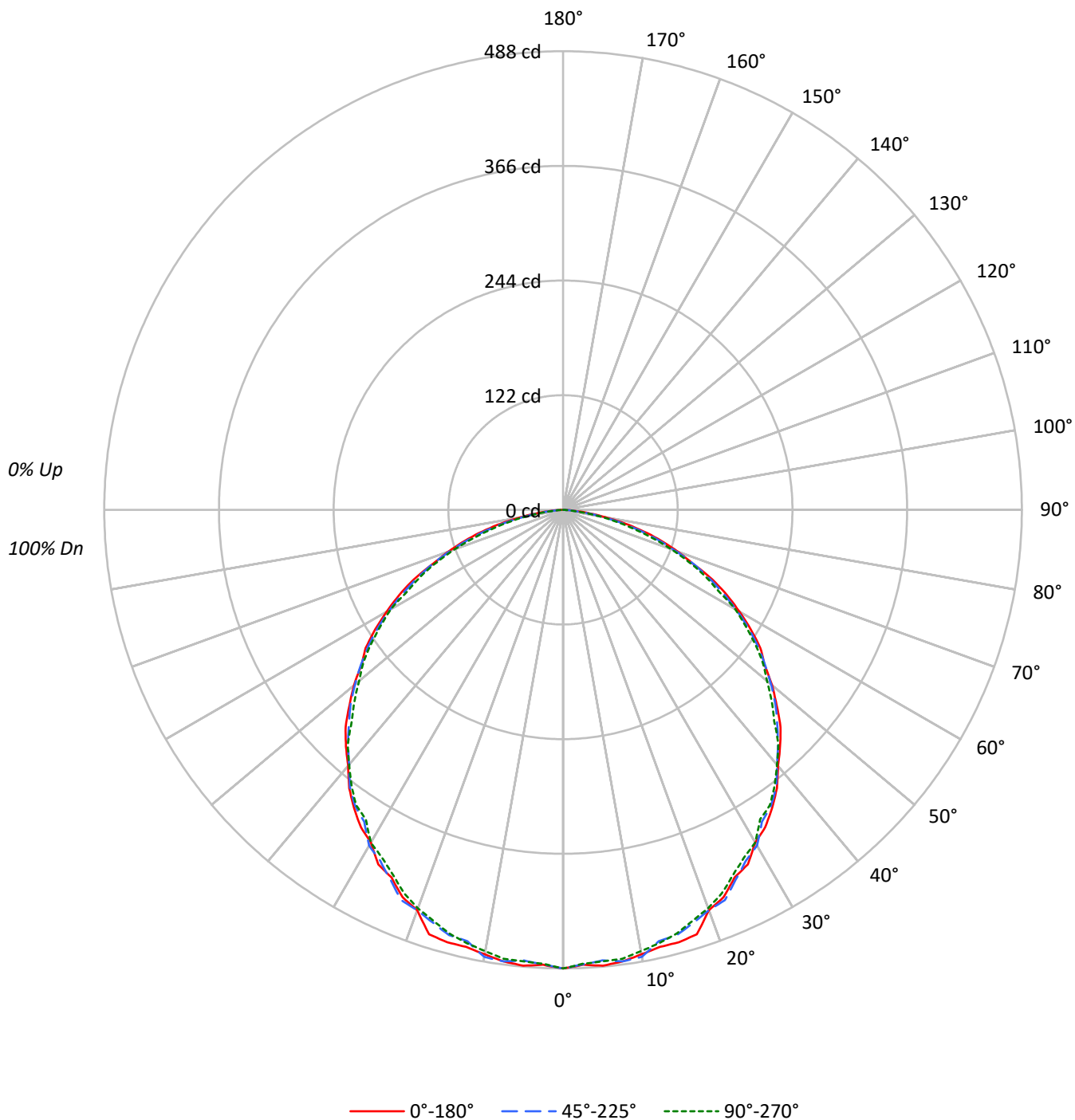
Lumens per Lamp: N/A
Luminaire Lumens: 1360.3 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.75' x H: 0')
CIE Type: Direct

Input Watts (W): 12
Input Voltage (V): 120
Input Current (A_{in}): 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
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°	28015	28015	28015
5°	28059	27736	27799
10°	27992	28156	27794
15°	28308	27838	27743
20°	27699	27699	27559
25°	27339	27516	27123
30°	27092	27351	27092
35°	27157	26995	26883
40°	26656	26529	26529
45°	26564	26158	25793
50°	25927	25784	25284
55°	25652	25312	24982
60°	24869	24421	24295
65°	23812	23201	22671
70°	21736	21266	20528
75°	19696	18454	17212
80°	15141	13488	12563
85°	8431	5862	4018

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 26564 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	3.4
10°-20°	131.9	9.7
20°-30°	199.5	14.7
30°-40°	239.8	17.6
40°-50°	248.3	18.3
50°-60°	224.1	16.5
60°-70°	167.8	12.3
70°-80°	87.7	6.5
80°-90°	15.1	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°	377.5	27.8
0°-40°	617.3	45.4
0°-60°	1089.7	80.1
0°-90°	1360.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1360.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	488	488	488	488	488	
5°	487	484	481	482	482	46
15°	476	466	468	458	467	134
25°	432	435	434	427	428	200
35°	388	385	385	380	384	242
45°	327	324	322	319	318	251
55°	256	254	253	247	250	227
65°	175	172	171	166	167	172
75°	89	85	83	79	78	93
85°	13	12	9	7	6	18
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	488.0	488.0	488.0	488.0	488.0
2.5°	484.6	488.5	484.1	483.0	483.5
5°	486.9	483.5	481.3	481.8	482.4
7.5°	484.6	481.8	484.6	479.6	481.8
10°	480.2	478.5	483.0	479.0	476.8
12.5°	476.3	473.5	470.1	470.7	472.3
15°	476.3	465.6	468.4	457.8	466.8
17.5°	473.5	459.5	460.6	464.5	458.4
20°	453.4	451.7	453.4	452.2	451.1
22.5°	446.1	445.5	449.5	439.4	441.6
25°	431.6	434.9	434.4	426.6	428.2
27.5°	425.4	422.7	421.0	422.7	417.1
30°	408.7	411.5	412.6	409.8	408.7
32.5°	400.3	398.6	393.6	393.6	390.3
35°	387.5	384.7	385.2	379.7	383.6
37.5°	373.5	370.2	372.4	363.5	369.6
40°	355.7	356.8	354.0	354.0	354.0
42.5°	341.7	340.6	338.3	333.3	338.9
45°	327.2	323.8	322.2	319.4	317.7
47.5°	308.2	307.1	306.5	300.4	300.9
50°	290.3	289.2	288.7	285.9	283.1
52.5°	269.7	269.1	270.8	266.9	268.0
55°	256.3	254.0	252.9	247.3	249.6
57.5°	236.7	231.1	233.4	228.4	230.0
60°	216.6	214.4	212.7	207.1	211.6
62.5°	196.5	192.6	191.5	187.6	185.4
65°	175.3	172.0	170.8	165.8	166.9
67.5°	149.1	151.9	150.2	145.2	144.6
70°	129.5	129.5	126.7	122.8	122.3
72.5°	109.4	107.8	105.5	101.6	99.9
75°	88.8	85.4	83.2	78.7	77.6
77.5°	67.6	64.8	62.0	58.1	57.5
80°	45.8	44.1	40.8	37.4	38.0
82.5°	28.5	26.8	23.4	20.7	20.7
85°	12.8	11.7	8.9	7.3	6.1
87.5°	2.8	2.2	1.7	1.1	1.1
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	23.5	25.1	23.8	25.4	25.7	23.3	25.0	23.7	25.3	25.6
	3H	25.2	26.7	25.6	27.0	27.4	25.0	26.5	25.4	26.8	27.2
	4H	25.8	27.2	26.2	27.6	27.9	25.6	26.9	26.0	27.3	27.7
	6H	26.2	27.5	26.6	27.9	28.3	25.9	27.1	26.3	27.5	27.9
	8H	26.3	27.5	26.7	27.9	28.3	25.9	27.1	26.3	27.5	27.9
	12H	26.3	27.5	26.8	27.9	28.3	25.9	27.1	26.3	27.5	27.9
4H	2H	24.1	25.5	24.5	25.8	26.2	24.0	25.4	24.4	25.7	26.1
	3H	26.0	27.2	26.5	27.6	28.0	25.9	27.0	26.3	27.4	27.8
	4H	26.8	27.8	27.2	28.2	28.7	26.5	27.5	26.9	28.0	28.4
	6H	27.3	28.2	27.7	28.6	29.1	26.9	27.8	27.3	28.2	28.7
	8H	27.4	28.2	27.8	28.7	29.1	26.9	27.8	27.4	28.2	28.7
	12H	27.4	28.2	27.9	28.7	29.1	27.0	27.7	27.4	28.2	28.7
8H	4H	27.0	27.9	27.5	28.3	28.8	26.8	27.6	27.2	28.1	28.5
	6H	27.6	28.3	28.1	28.8	29.2	27.2	27.9	27.7	28.4	28.9
	8H	27.7	28.4	28.2	28.9	29.4	27.3	27.9	27.8	28.4	28.9
	12H	27.8	28.4	28.3	28.9	29.4	27.3	27.9	27.8	28.4	28.9
12H	4H	27.0	27.8	27.5	28.3	28.7	26.8	27.6	27.3	28.0	28.5
	6H	27.6	28.2	28.1	28.7	29.2	27.3	27.9	27.8	28.3	28.9
	8H	27.8	28.3	28.3	28.8	29.4	27.4	27.9	27.9	28.4	29.0

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