

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: P1212284

Luminaire Tested: SEC2HSPLUGMBLK-5000K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212284
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSPLUGMBLK-5000K
Description: ACPlug SEL1500 Motion 2H Blk at 5000K

Light Source:
Ballast/Driver: -

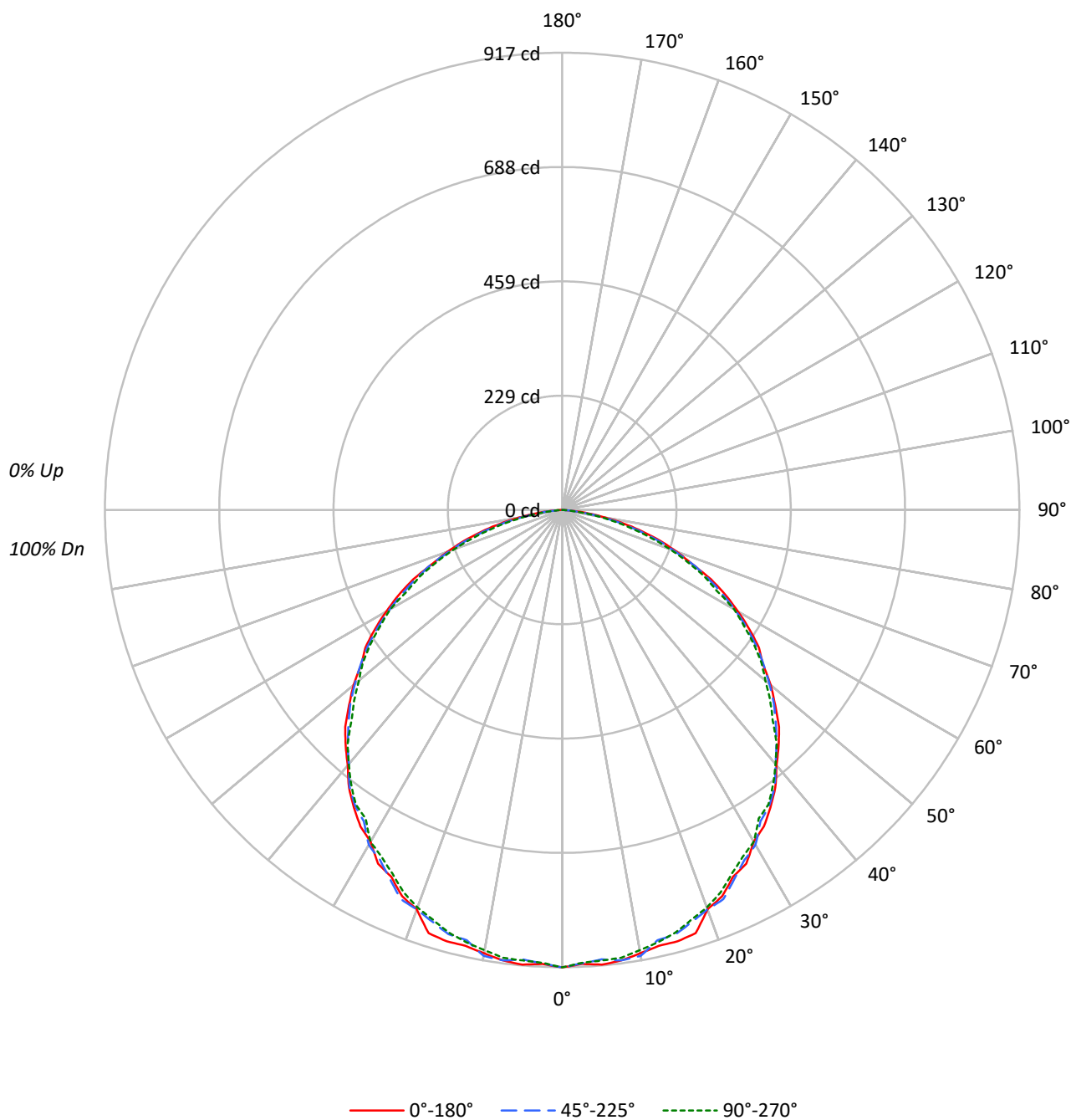
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2557.3 lumens
Efficiency: N/A
Efficacy: 116.8 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: >0.27
Total Harmonic Distortion (THDi): <38
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°	52666	52666	52666
5°	52746	52141	52262
10°	52621	52924	52254
15°	53210	52336	52152
20°	52069	52069	51812
25°	51390	51725	50990
30°	50929	51420	50929
35°	51047	50753	50536
40°	50105	49865	49865
45°	49938	49167	48485
50°	48746	48460	47522
55°	48222	47591	46961
60°	46753	45915	45673
65°	44772	43631	42626
70°	40871	39998	38588
75°	37019	34690	32361
80°	28464	25324	23605
85°	15874	11066	7575

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 49938 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	3.4
10°-20°	248.0	9.7
20°-30°	375.1	14.7
30°-40°	450.8	17.6
40°-50°	466.7	18.3
50°-60°	421.3	16.5
60°-70°	315.4	12.3
70°-80°	165.0	6.5
80°-90°	28.3	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°	709.7	27.8
0°-40°	1160.5	45.4
0°-60°	2048.6	80.1
0°-90°	2557.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2557.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	915	909	905	906	907	87
15°	895	875	881	861	878	252
25°	811	818	817	802	805	376
35°	728	723	724	714	721	454
45°	615	609	606	600	597	472
55°	482	478	476	465	469	427
65°	330	323	321	312	314	323
75°	167	161	156	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°	917.4	917.4	917.4	917.4	917.4
2.5°	911.1	918.4	910.0	907.9	909.0
5°	915.3	909.0	904.8	905.8	906.9
7.5°	911.1	905.8	911.1	901.6	905.8
10°	902.7	899.5	907.9	900.6	896.4
12.5°	895.3	890.1	883.8	884.8	888.0
15°	895.3	875.4	880.6	860.7	877.5
17.5°	890.1	863.8	865.9	873.3	861.7
20°	852.3	849.1	852.3	850.2	848.1
22.5°	838.6	837.6	844.9	826.0	830.2
25°	811.3	817.6	816.6	801.9	805.0
27.5°	799.8	794.5	791.4	794.5	784.1
30°	768.3	773.6	775.7	770.4	768.3
32.5°	752.6	749.4	740.0	740.0	733.7
35°	728.4	723.2	724.2	713.7	721.1
37.5°	702.2	695.9	700.1	683.3	694.8
40°	668.6	670.7	665.4	665.4	665.4
42.5°	642.4	640.3	636.1	626.6	637.1
45°	615.1	608.8	605.6	600.4	597.2
47.5°	579.4	577.3	576.2	564.7	565.7
50°	545.8	543.7	542.6	537.4	532.1
52.5°	507.0	505.9	509.1	501.7	503.8
55°	481.8	477.6	475.5	465.0	469.2
57.5°	445.0	434.5	438.7	429.3	432.4
60°	407.2	403.0	399.9	389.4	397.8
62.5°	369.5	362.1	360.0	352.7	348.5
65°	329.6	323.3	321.2	311.7	313.8
67.5°	280.2	285.5	282.3	272.9	271.8
70°	243.5	243.5	238.3	230.9	229.9
72.5°	205.7	202.6	198.4	191.0	187.9
75°	166.9	160.6	156.4	148.0	145.9
77.5°	127.0	121.8	116.5	109.2	108.1
80°	86.1	82.9	76.6	70.3	71.4
82.5°	53.5	50.4	44.1	38.8	38.8
85°	24.1	22.0	16.8	13.6	11.5
87.5°	5.2	4.2	3.1	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	25.6	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	27.7	29.1	28.1	29.5	29.9
	6H	28.4	29.7	28.8	30.1	30.5	28.0	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	29.6	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	28.6	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	29.4	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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