

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: P1212272

Luminaire Tested: SEC2HSPLUGMBLK-2700K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212272
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSPLUGMBLK-2700K
Description: ACPlug SEL1500 Motion 2H Blk at 2700K

Light Source:
Ballast/Driver: -

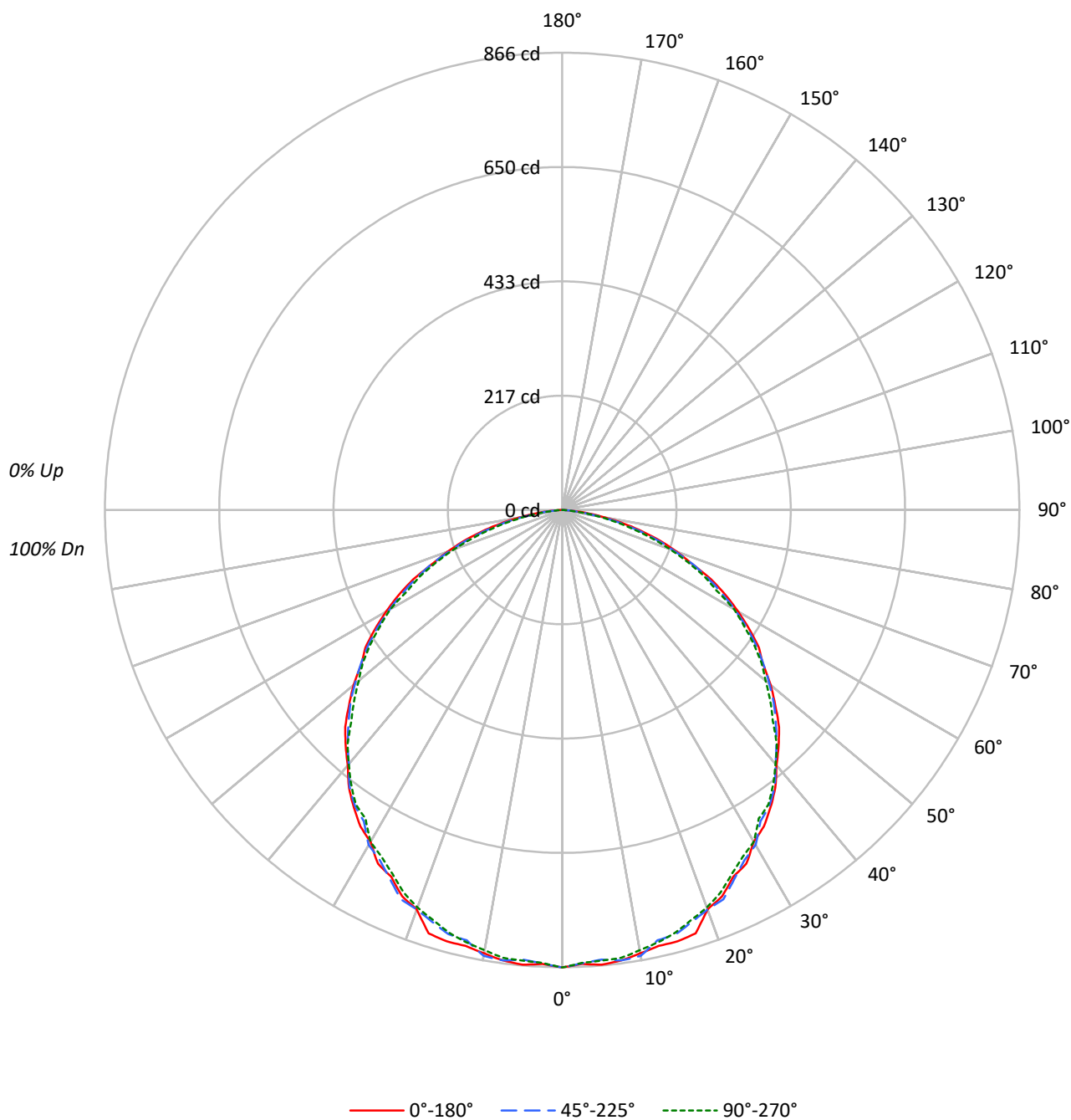
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2415.6 lumens
Efficiency: N/A
Efficacy: 110.3 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					0
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°	49744	49744	49744
5°	49818	49248	49363
10°	49701	49992	49357
15°	50262	49436	49258
20°	49179	49179	48941
25°	48545	48856	48165
30°	48106	48570	48106
35°	48216	47943	47733
40°	47325	47107	47107
45°	47169	46447	45797
50°	46039	45780	44896
55°	45550	44949	44359
60°	44169	43366	43136
65°	42286	41213	40262
70°	38605	37783	36440
75°	34957	32761	30565
80°	26878	23935	22282
85°	15018	10473	7180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 47169 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	3.4
10°-20°	234.3	9.7
20°-30°	354.3	14.7
30°-40°	425.9	17.6
40°-50°	440.9	18.3
50°-60°	398.0	16.5
60°-70°	297.9	12.3
70°-80°	155.8	6.4
80°-90°	26.8	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°	670.4	27.8
0°-40°	1096.2	45.4
0°-60°	1935.1	80.1
0°-90°	2415.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2415.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	866	866	866	866	866	
5°	864	859	855	856	857	82
15°	846	827	832	813	829	238
25°	766	772	771	757	760	355
35°	688	683	684	674	681	429
45°	581	575	572	567	564	446
55°	455	451	449	439	443	404
65°	311	305	303	294	296	305
75°	158	152	148	140	138	165
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°	866.5	866.5	866.5	866.5	866.5
2.5°	860.6	867.5	859.6	857.6	858.6
5°	864.5	858.6	854.6	855.6	856.6
7.5°	860.6	855.6	860.6	851.6	855.6
10°	852.6	849.7	857.6	850.6	846.7
12.5°	845.7	840.7	834.8	835.8	838.7
15°	845.7	826.8	831.8	813.0	828.8
17.5°	840.7	815.9	817.9	824.9	814.0
20°	805.0	802.1	805.0	803.1	801.1
22.5°	792.1	791.2	798.1	780.3	784.2
25°	766.4	772.3	771.3	757.4	760.4
27.5°	755.5	750.5	747.5	750.5	740.6
30°	725.7	730.7	732.7	727.7	725.7
32.5°	710.9	707.9	699.0	699.0	693.0
35°	688.0	683.1	684.1	674.2	681.1
37.5°	663.3	657.3	661.3	645.4	656.3
40°	631.5	633.5	628.6	628.6	628.6
42.5°	606.8	604.8	600.8	591.9	601.8
45°	581.0	575.0	572.1	567.1	564.1
47.5°	547.3	545.3	544.3	533.4	534.4
50°	515.5	513.6	512.6	507.6	502.7
52.5°	478.9	477.9	480.8	473.9	475.9
55°	455.1	451.1	449.1	439.2	443.2
57.5°	420.4	410.4	414.4	405.5	408.5
60°	384.7	380.7	377.7	367.8	375.7
62.5°	349.0	342.0	340.1	333.1	329.2
65°	311.3	305.4	303.4	294.5	296.4
67.5°	264.7	269.7	266.7	257.8	256.8
70°	230.0	230.0	225.1	218.1	217.1
72.5°	194.3	191.3	187.4	180.4	177.5
75°	157.6	151.7	147.7	139.8	137.8
77.5°	120.0	115.0	110.0	103.1	102.1
80°	81.3	78.3	72.4	66.4	67.4
82.5°	50.6	47.6	41.6	36.7	36.7
85°	22.8	20.8	15.9	12.9	10.9
87.5°	5.0	4.0	3.0	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	27.1	25.8	27.4	27.7	25.3	27.0	25.7	27.3	27.6
	3H	27.2	28.7	27.6	29.0	29.4	27.0	28.5	27.4	28.8	29.2
	4H	27.8	29.2	28.2	29.6	29.9	27.6	28.9	27.9	29.3	29.7
	6H	28.2	29.5	28.6	29.9	30.3	27.8	29.1	28.3	29.5	29.9
	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	28.8	29.9	30.3	27.9	29.1	28.3	29.4	29.9
4H	2H	26.1	27.5	26.5	27.8	28.2	26.0	27.4	26.4	27.7	28.1
	3H	28.0	29.2	28.4	29.6	30.0	27.9	29.0	28.3	29.4	29.8
	4H	28.8	29.8	29.2	30.2	30.7	28.5	29.5	28.9	30.0	30.4
	6H	29.3	30.2	29.7	30.6	31.1	28.9	29.8	29.3	30.2	30.7
	8H	29.4	30.2	29.8	30.7	31.1	28.9	29.8	29.4	30.2	30.7
	12H	29.4	30.2	29.9	30.7	31.1	29.0	29.7	29.4	30.2	30.7
8H	4H	29.0	29.9	29.5	30.3	30.8	28.8	29.6	29.2	30.1	30.5
	6H	29.6	30.3	30.1	30.8	31.2	29.2	29.9	29.7	30.4	30.9
	8H	29.7	30.4	30.2	30.9	31.3	29.3	29.9	29.8	30.4	30.9
	12H	29.8	30.4	30.3	30.9	31.4	29.3	29.9	29.8	30.4	30.9
12H	4H	29.0	29.8	29.5	30.3	30.7	28.8	29.5	29.3	30.0	30.5
	6H	29.6	30.2	30.1	30.7	31.2	29.2	29.9	29.8	30.3	30.9
	8H	29.8	30.3	30.3	30.8	31.4	29.4	29.9	29.9	30.4	31.0

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