

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: P1212271

Luminaire Tested: SEC2HSHWMBLK-2700K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212271
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSHWMBLK-2700K
Description: 120V SEL 2500 Motion 2H Blk at 2700K

Light Source:
Ballast/Driver: -

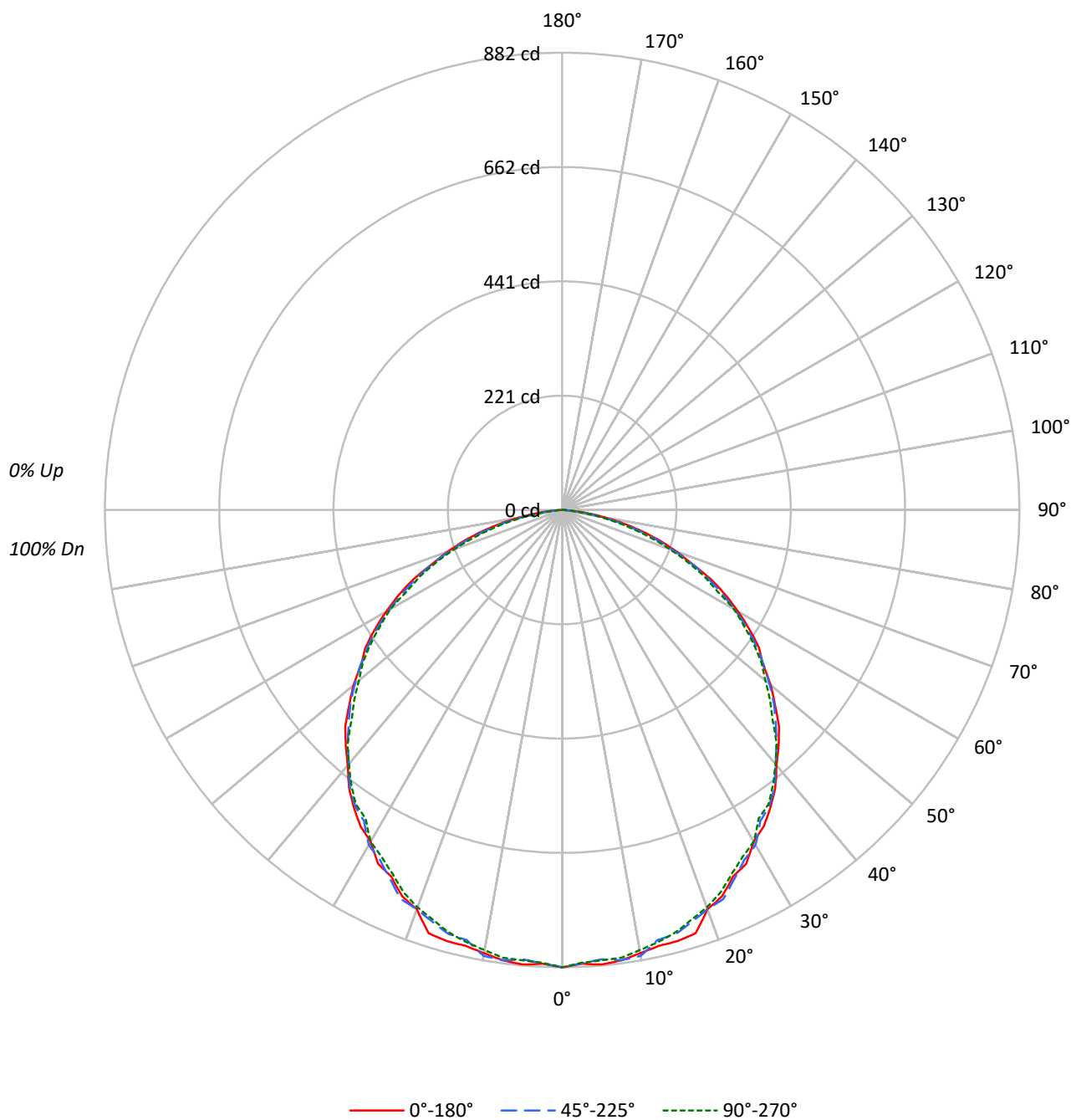
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2459.2 lumens
Efficiency: N/A
Efficacy: 112.3 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				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	50645	50645	50645
5°	50723	50141	50256
10°	50598	50896	50249
15°	51172	50328	50149
20°	50071	50071	49827
25°	49420	49743	49040
30°	48974	49445	48974
35°	49092	48812	48595
40°	48187	47954	47954
45°	48022	47283	46625
50°	46879	46602	45700
55°	46370	45760	45159
60°	44962	44158	43917
65°	43047	41960	40996
70°	39310	38454	37095
75°	35600	33360	31119
80°	27373	24365	22679
85°	15281	10605	7311

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 48022 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	3.4
10°-20°	238.5	9.7
20°-30°	360.7	14.7
30°-40°	433.5	17.6
40°-50°	448.8	18.3
50°-60°	405.2	16.5
60°-70°	303.3	12.3
70°-80°	158.6	6.5
80°-90°	27.2	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°	682.5	27.8
0°-40°	1116.0	45.4
0°-60°	1970.0	80.1
0°-90°	2459.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2459.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	880	874	870	871	872	84
15°	861	842	847	828	844	242
25°	780	786	785	771	774	362
35°	700	695	696	686	693	437
45°	592	585	582	577	574	454
55°	463	459	457	447	451	411
65°	317	311	309	300	302	310
75°	160	154	150	142	140	168
85°	23	21	16	13	11	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.2	882.2	882.2	882.2	882.2
2.5°	876.1	883.2	875.1	873.1	874.1
5°	880.2	874.1	870.1	871.1	872.1
7.5°	876.1	871.1	876.1	867.0	871.1
10°	868.0	865.0	873.1	866.0	862.0
12.5°	861.0	855.9	849.9	850.9	853.9
15°	861.0	841.8	846.8	827.7	843.8
17.5°	855.9	830.7	832.7	839.8	828.7
20°	819.6	816.6	819.6	817.6	815.6
22.5°	806.5	805.5	812.5	794.4	798.4
25°	780.2	786.3	785.3	771.1	774.2
27.5°	769.1	764.1	761.1	764.1	754.0
30°	738.8	743.9	745.9	740.9	738.8
32.5°	723.7	720.7	711.6	711.6	705.5
35°	700.5	695.4	696.5	686.4	693.4
37.5°	675.3	669.2	673.2	657.1	668.2
40°	643.0	645.0	639.9	639.9	639.9
42.5°	617.7	615.7	611.7	602.6	612.7
45°	591.5	585.4	582.4	577.4	574.3
47.5°	557.2	555.1	554.1	543.0	544.0
50°	524.9	522.8	521.8	516.8	511.7
52.5°	487.5	486.5	489.5	482.5	484.5
55°	463.3	459.3	457.2	447.1	451.2
57.5°	428.0	417.9	421.9	412.8	415.9
60°	391.6	387.6	384.6	374.5	382.5
62.5°	355.3	348.2	346.2	339.1	335.1
65°	316.9	310.9	308.9	299.8	301.8
67.5°	269.5	274.5	271.5	262.4	261.4
70°	234.2	234.2	229.1	222.1	221.0
72.5°	197.8	194.8	190.8	183.7	180.7
75°	160.5	154.4	150.4	142.3	140.3
77.5°	122.1	117.1	112.0	105.0	104.0
80°	82.8	79.7	73.7	67.6	68.6
82.5°	51.5	48.4	42.4	37.3	37.3
85°	23.2	21.2	16.1	13.1	11.1
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	25.5	27.1	25.9	27.5	27.8	25.4	27.0	25.8	27.3	27.7
	3H	27.3	28.7	27.7	29.1	29.4	27.1	28.5	27.5	28.9	29.2
	4H	27.9	29.3	28.3	29.6	30.0	27.6	29.0	28.0	29.3	29.7
	6H	28.3	29.6	28.7	29.9	30.3	27.9	29.2	28.3	29.6	29.9
	8H	28.4	29.6	28.8	30.0	30.4	28.0	29.2	28.4	29.6	30.0
	12H	28.4	29.6	28.8	30.0	30.4	28.0	29.1	28.4	29.5	29.9
4H	2H	26.1	27.5	26.5	27.9	28.2	26.0	27.4	26.4	27.8	28.2
	3H	28.1	29.3	28.5	29.7	30.1	27.9	29.1	28.3	29.5	29.9
	4H	28.8	29.9	29.3	30.3	30.7	28.6	29.6	29.0	30.0	30.5
	6H	29.3	30.2	29.8	30.7	31.1	28.9	29.9	29.4	30.3	30.7
	8H	29.4	30.3	29.9	30.7	31.2	29.0	29.9	29.5	30.3	30.8
	12H	29.5	30.2	30.0	30.7	31.2	29.0	29.8	29.5	30.3	30.7
8H	4H	29.1	29.9	29.5	30.4	30.8	28.8	29.7	29.3	30.1	30.6
	6H	29.6	30.3	30.1	30.8	31.3	29.3	30.0	29.8	30.5	30.9
	8H	29.8	30.4	30.3	30.9	31.4	29.4	30.0	29.9	30.5	31.0
	12H	29.9	30.4	30.4	30.9	31.5	29.4	30.0	29.9	30.4	31.0
12H	4H	29.1	29.8	29.6	30.3	30.8	28.8	29.6	29.3	30.1	30.6
	6H	29.7	30.3	30.2	30.7	31.3	29.3	29.9	29.8	30.4	30.9
	8H	29.8	30.4	30.3	30.9	31.4	29.4	30.0	29.9	30.5	31.0

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