

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: P1212287

Luminaire Tested: SEC2HSHWMBLK-6500K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212287
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSHWMBLK-6500K
Description: 120V SEL 2500 Motion 2H Blk at 6500K

Light Source:
Ballast/Driver: -

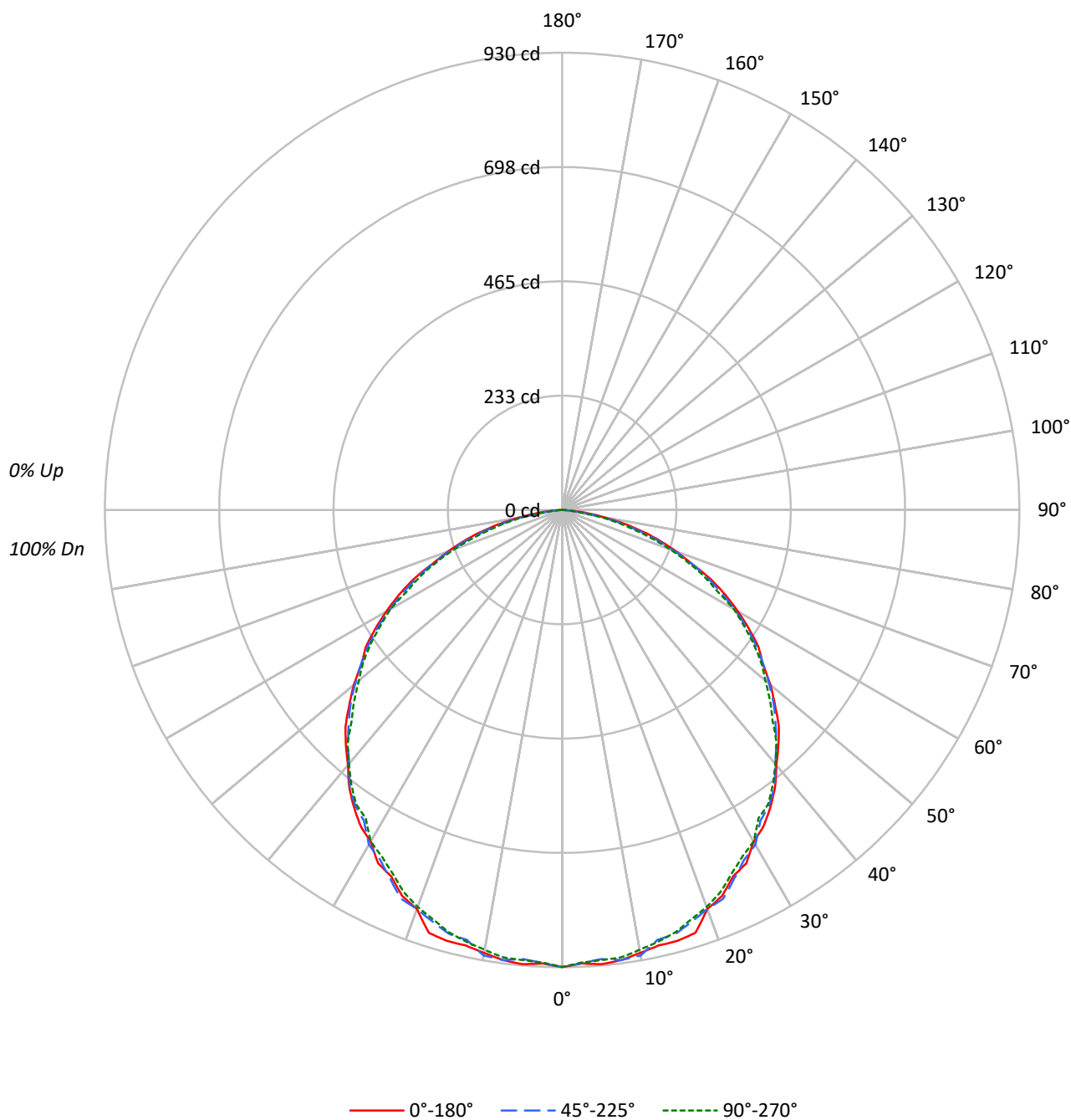
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2591.4 lumens
Efficiency: N/A
Efficacy: 118.3 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: >0.33
Total Harmonic Distortion (THDi): <44
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°	53366	53366	53366
5°	53449	52832	52959
10°	53321	53630	52948
15°	53923	53038	52848
20°	52759	52759	52502
25°	52080	52416	51675
30°	51612	52103	51612
35°	51727	51433	51209
40°	50772	50532	50532
45°	50604	49824	49134
50°	49398	49112	48156
55°	48862	48222	47581
60°	47384	46523	46282
65°	45370	44215	43196
70°	41425	40519	39092
75°	37507	35156	32783
80°	28828	25654	23902
85°	16138	11198	7707

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 50604 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	3.4
10°-20°	251.3	9.7
20°-30°	380.1	14.7
30°-40°	456.8	17.6
40°-50°	472.9	18.3
50°-60°	426.9	16.5
60°-70°	319.6	12.3
70°-80°	167.2	6.5
80°-90°	28.7	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°	719.2	27.8
0°-40°	1176.0	45.4
0°-60°	2075.9	80.1
0°-90°	2591.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2591.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	930	930	930	930	930	
5°	928	921	917	918	919	88
15°	907	887	892	872	889	255
25°	822	828	828	813	816	381
35°	738	733	734	723	731	461
45°	623	617	614	608	605	478
55°	488	484	482	471	475	433
65°	334	328	326	316	318	327
75°	169	163	158	150	148	177
85°	24	22	17	14	12	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.6	929.6	929.6	929.6	929.6
2.5°	923.2	930.7	922.1	920.0	921.1
5°	927.5	921.1	916.8	917.9	919.0
7.5°	923.2	917.9	923.2	913.6	917.9
10°	914.7	911.5	920.0	912.6	908.3
12.5°	907.3	901.9	895.6	896.6	899.8
15°	907.3	887.0	892.4	872.2	889.2
17.5°	901.9	875.3	877.5	884.9	873.2
20°	863.6	860.5	863.6	861.5	859.4
22.5°	849.8	848.8	856.2	837.1	841.3
25°	822.2	828.5	827.5	812.6	815.8
27.5°	810.5	805.1	802.0	805.1	794.5
30°	778.6	783.9	786.0	780.7	778.6
32.5°	762.6	759.4	749.8	749.8	743.5
35°	738.1	732.8	733.9	723.2	730.7
37.5°	711.5	705.2	709.4	692.4	704.1
40°	677.5	679.6	674.3	674.3	674.3
42.5°	650.9	648.8	644.5	635.0	645.6
45°	623.3	616.9	613.7	608.4	605.2
47.5°	587.1	585.0	583.9	572.2	573.3
50°	553.1	550.9	549.9	544.6	539.2
52.5°	513.7	512.7	515.8	508.4	510.5
55°	488.2	483.9	481.8	471.2	475.4
57.5°	451.0	440.3	444.6	435.0	438.2
60°	412.7	408.4	405.2	394.6	403.1
62.5°	374.4	366.9	364.8	357.4	353.1
65°	334.0	327.6	325.5	315.9	318.0
67.5°	284.0	289.3	286.1	276.5	275.5
70°	246.8	246.8	241.4	234.0	232.9
72.5°	208.5	205.3	201.0	193.6	190.4
75°	169.1	162.7	158.5	150.0	147.8
77.5°	128.7	123.4	118.1	110.6	109.6
80°	87.2	84.0	77.6	71.3	72.3
82.5°	54.2	51.1	44.7	39.4	39.4
85°	24.5	22.3	17.0	13.8	11.7
87.5°	5.3	4.3	3.2	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	25.7	27.3	26.1	27.6	28.0	25.6	27.2	25.9	27.5	27.8
	3H	27.5	28.9	27.8	29.3	29.6	27.3	28.7	27.6	29.1	29.4
	4H	28.1	29.5	28.5	29.8	30.2	27.8	29.2	28.2	29.5	29.9
	6H	28.5	29.7	28.9	30.1	30.5	28.1	29.4	28.5	29.7	30.1
	8H	28.5	29.8	29.0	30.2	30.6	28.1	29.4	28.6	29.8	30.2
	12H	28.6	29.8	29.0	30.1	30.6	28.1	29.3	28.6	29.7	30.1
4H	2H	26.3	27.7	26.7	28.1	28.4	26.2	27.6	26.6	28.0	28.3
	3H	28.3	29.4	28.7	29.8	30.2	28.1	29.3	28.5	29.7	30.1
	4H	29.0	30.1	29.4	30.5	30.9	28.7	29.8	29.2	30.2	30.6
	6H	29.5	30.4	29.9	30.8	31.3	29.1	30.0	29.6	30.5	30.9
	8H	29.6	30.5	30.1	30.9	31.4	29.2	30.0	29.6	30.5	30.9
	12H	29.7	30.4	30.1	30.9	31.4	29.2	30.0	29.7	30.4	30.9
8H	4H	29.3	30.1	29.7	30.5	31.0	29.0	29.9	29.5	30.3	30.8
	6H	29.8	30.5	30.3	31.0	31.5	29.5	30.2	30.0	30.7	31.1
	8H	30.0	30.6	30.5	31.1	31.6	29.5	30.2	30.1	30.7	31.2
	12H	30.0	30.6	30.6	31.1	31.7	29.6	30.1	30.1	30.6	31.2
12H	4H	29.3	30.0	29.7	30.5	31.0	29.0	29.8	29.5	30.3	30.7
	6H	29.8	30.5	30.4	30.9	31.5	29.5	30.1	30.0	30.6	31.1
	8H	30.0	30.6	30.5	31.1	31.6	29.6	30.2	30.1	30.7	31.2

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