

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: P1212279

Luminaire Tested: SEC2HSHWMBLK-4000K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212279
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSHWMBLK-4000K
Description: 120V SEL 2500 Motion 2H Blk at 4000K

Light Source:
Ballast/Driver: -

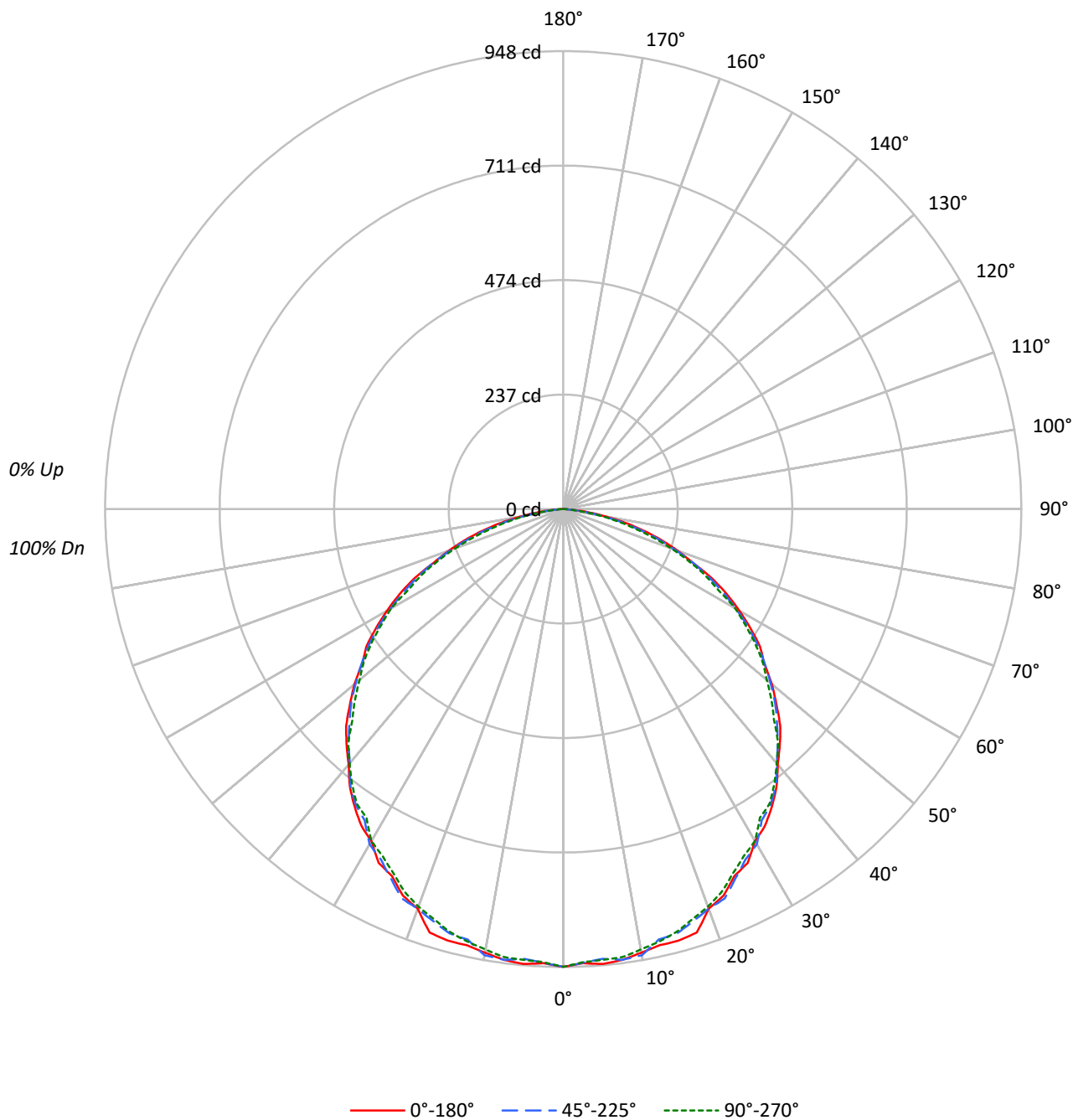
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2641.6 lumens
Efficiency: N/A
Efficacy: 120.6 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: >0.17
Total Harmonic Distortion (THDi): <28
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	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	86	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	73	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	62	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	46	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	36	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	32	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	29	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	54399	54399	54399
5°	54480	53858	53979
10°	54353	54667	53974
15°	54963	54060	53870
20°	53785	53785	53516
25°	53087	53429	52675
30°	52607	53110	52607
35°	52729	52428	52197
40°	51754	51514	51514
45°	51578	50790	50084
50°	50353	50058	49094
55°	49803	49153	48502
60°	48303	47430	47178
65°	46239	45071	44039
70°	42214	41308	39847
75°	38239	35822	33426
80°	29390	26150	24365
85°	16401	11395	7838

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 51578 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	3.4
10°-20°	256.2	9.7
20°-30°	387.5	14.7
30°-40°	465.7	17.6
40°-50°	482.1	18.3
50°-60°	435.2	16.5
60°-70°	325.8	12.3
70°-80°	170.4	6.5
80°-90°	29.3	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°	733.1	27.8
0°-40°	1198.8	45.4
0°-60°	2116.1	80.1
0°-90°	2641.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2641.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	945	939	935	936	937	90
15°	925	904	910	889	906	260
25°	838	845	844	828	832	389
35°	752	747	748	737	745	469
45°	635	629	626	620	617	487
55°	498	493	491	480	485	441
65°	340	334	332	322	324	333
75°	172	166	162	153	151	181
85°	25	23	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°	947.6	947.6	947.6	947.6	947.6
2.5°	941.1	948.7	940.0	937.8	938.9
5°	945.4	938.9	934.6	935.7	936.7
7.5°	941.1	935.7	941.1	931.3	935.7
10°	932.4	929.2	937.8	930.2	925.9
12.5°	924.8	919.4	912.9	914.0	917.2
15°	924.8	904.2	909.6	889.0	906.4
17.5°	919.4	892.3	894.5	902.1	890.1
20°	880.4	877.1	880.4	878.2	876.0
22.5°	866.3	865.2	872.8	853.3	857.6
25°	838.1	844.6	843.5	828.3	831.6
27.5°	826.2	820.7	817.5	820.7	809.9
30°	793.6	799.1	801.2	795.8	793.6
32.5°	777.4	774.1	764.4	764.4	757.9
35°	752.4	747.0	748.1	737.3	744.8
37.5°	725.3	718.8	723.2	705.8	717.7
40°	690.6	692.8	687.4	687.4	687.4
42.5°	663.5	661.4	657.0	647.3	658.1
45°	635.3	628.8	625.6	620.2	616.9
47.5°	598.5	596.3	595.2	583.3	584.4
50°	563.8	561.6	560.5	555.1	549.7
52.5°	523.7	522.6	525.8	518.2	520.4
55°	497.6	493.3	491.1	480.3	484.6
57.5°	459.7	448.9	453.2	443.4	446.7
60°	420.7	416.3	413.1	402.2	410.9
62.5°	381.6	374.0	371.9	364.3	360.0
65°	340.4	333.9	331.8	322.0	324.2
67.5°	289.5	294.9	291.6	281.9	280.8
70°	251.5	251.5	246.1	238.5	237.4
72.5°	212.5	209.3	204.9	197.3	194.1
75°	172.4	165.9	161.5	152.9	150.7
77.5°	131.2	125.8	120.3	112.8	111.7
80°	88.9	85.7	79.1	72.6	73.7
82.5°	55.3	52.0	45.5	40.1	40.1
85°	24.9	22.8	17.3	14.1	11.9
87.5°	5.4	4.3	3.3	2.2	2.2
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	25.8	27.4	26.1	27.7	28.0	25.6	27.3	26.0	27.6	27.9
	3H	27.5	29.0	27.9	29.3	29.7	27.3	28.8	27.7	29.1	29.5
	4H	28.1	29.5	28.5	29.9	30.3	27.9	29.2	28.3	29.6	30.0
	6H	28.5	29.8	28.9	30.2	30.6	28.2	29.4	28.6	29.8	30.2
	8H	28.6	29.8	29.0	30.2	30.6	28.2	29.4	28.6	29.8	30.2
	12H	28.6	29.8	29.1	30.2	30.6	28.2	29.4	28.6	29.8	30.2
4H	2H	26.4	27.8	26.8	28.1	28.5	26.3	27.7	26.7	28.0	28.4
	3H	28.4	29.5	28.8	29.9	30.3	28.2	29.3	28.6	29.7	30.1
	4H	29.1	30.1	29.5	30.5	31.0	28.8	29.9	29.2	30.3	30.7
	6H	29.6	30.5	30.0	30.9	31.4	29.2	30.1	29.6	30.5	31.0
	8H	29.7	30.5	30.1	31.0	31.4	29.3	30.1	29.7	30.5	31.0
	12H	29.7	30.5	30.2	31.0	31.4	29.3	30.0	29.7	30.5	31.0
8H	4H	29.3	30.2	29.8	30.6	31.1	29.1	29.9	29.5	30.4	30.8
	6H	29.9	30.6	30.4	31.1	31.5	29.5	30.2	30.0	30.7	31.2
	8H	30.0	30.7	30.5	31.2	31.7	29.6	30.2	30.1	30.8	31.2
	12H	30.1	30.7	30.6	31.2	31.7	29.6	30.2	30.2	30.7	31.3
12H	4H	29.3	30.1	29.8	30.6	31.0	29.1	29.9	29.6	30.3	30.8
	6H	29.9	30.5	30.4	31.0	31.5	29.6	30.2	30.1	30.7	31.2
	8H	30.1	30.6	30.6	31.1	31.7	29.7	30.2	30.2	30.7	31.3

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