

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: P1212267

Luminaire Tested: SEC3HSHWMBLK-5000K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212267
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC3HSHWMBLK-5000K
Description: 120V SEL3500 Motion 3H Blk at 5000K

Light Source:
Ballast/Driver: -

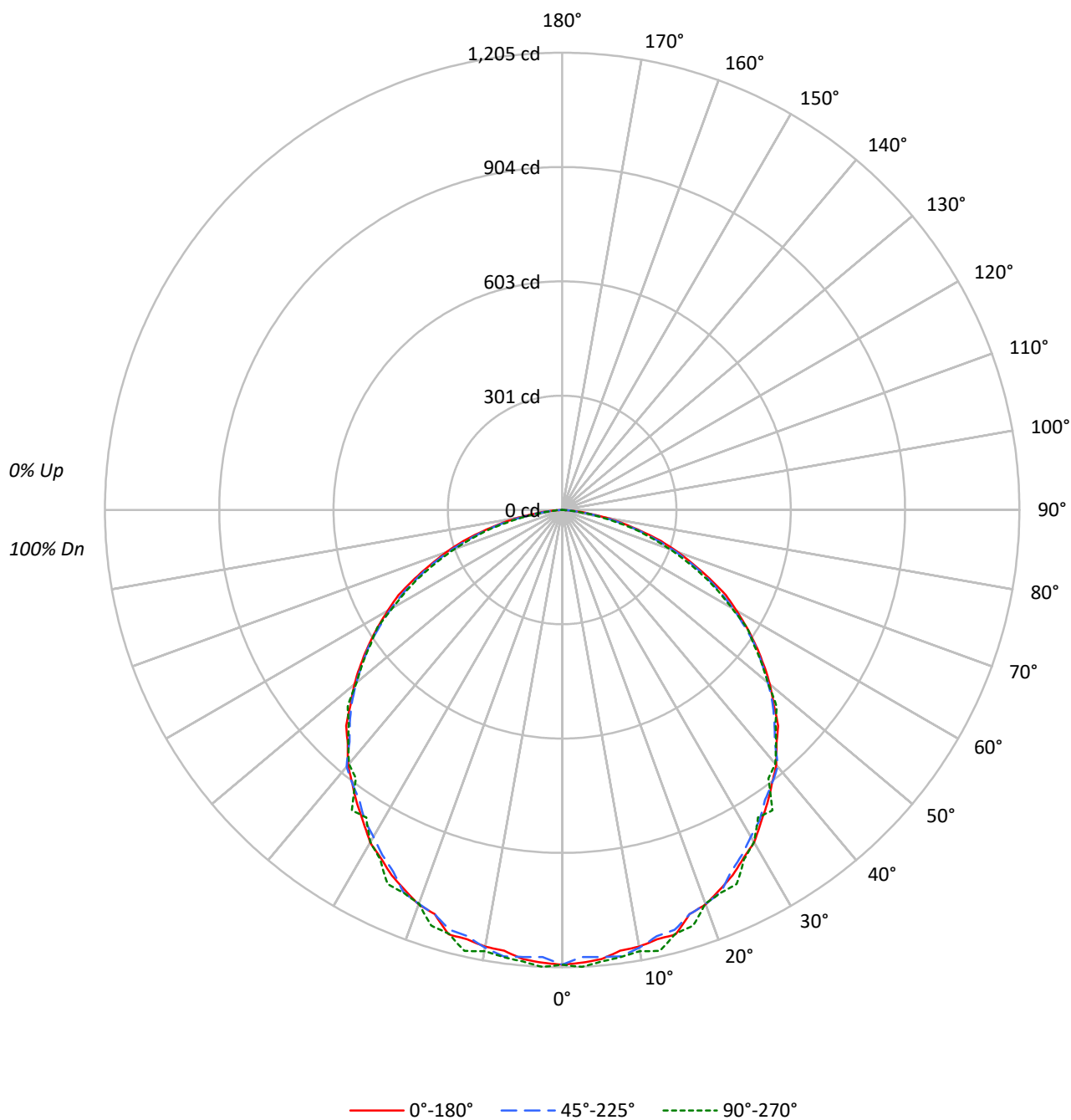
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3361.8 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 1.08' x H: 0')
CIE Type: Direct

Input Watts (W): 28.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: >0.26
Total Harmonic Distortion (THDi): <37
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	96	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	72
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46
6	70	57	48	41	68	56	47	41	54	47	41	52	46	41	51	45	40
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	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	26	37	31	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	47772	47772	47772
5°	47554	47318	47794
10°	47302	47424	47784
15°	47777	47282	47695
20°	46918	46875	46833
25°	46728	46288	47863
30°	46568	45790	46522
35°	45899	45368	47013
40°	45672	45984	45464
45°	45391	44607	44833
50°	44333	43898	43836
55°	43336	43058	42780
60°	42266	41477	41078
65°	40459	39516	38676
70°	37719	36565	35178
75°	33332	31962	30729
80°	26884	23486	22109
85°	14546	11344	9514

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 45391 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	3.4
10°-20°	323.8	9.6
20°-30°	490.2	14.6
30°-40°	589.5	17.5
40°-50°	614.8	18.3
50°-60°	555.2	16.5
60°-70°	416.6	12.4
70°-80°	219.0	6.5
80°-90°	39.5	1.2
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°	927.2	27.6
0°-40°	1516.8	45.1
0°-60°	2686.7	79.9
0°-90°	3361.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3361.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1188	1185	1182	1202	1194	113
15°	1158	1153	1146	1159	1156	323
25°	1062	1070	1052	1075	1088	489
35°	943	943	932	954	966	591
45°	805	800	791	797	795	616
55°	624	630	620	620	616	557
65°	429	432	419	425	410	425
75°	216	213	208	197	200	230
85°	32	31	25	22	21	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1198.3	1198.3	1198.3	1198.3	1198.3
2.5°	1194.3	1200.2	1179.4	1196.3	1205.2
5°	1188.3	1185.4	1182.4	1202.2	1194.3
7.5°	1171.5	1187.3	1186.3	1185.4	1188.3
10°	1168.5	1177.4	1171.5	1183.4	1180.4
12.5°	1158.6	1167.5	1150.6	1165.5	1190.3
15°	1157.6	1152.6	1145.6	1158.6	1155.6
17.5°	1116.9	1108.9	1116.9	1132.7	1148.6
20°	1105.9	1111.9	1104.9	1118.8	1103.9
22.5°	1084.1	1089.1	1091.0	1089.1	1092.0
25°	1062.3	1070.2	1052.3	1075.2	1088.1
27.5°	1034.5	1033.5	1025.5	1038.4	1038.4
30°	1011.6	1009.6	994.7	1008.6	1010.6
32.5°	974.9	967.9	968.9	967.9	961.0
35°	943.1	943.1	932.2	954.0	966.0
37.5°	908.4	910.4	908.4	910.4	892.5
40°	877.6	876.6	883.6	875.6	873.6
42.5°	835.9	839.9	829.0	839.9	833.9
45°	805.1	800.2	791.2	797.2	795.2
47.5°	755.5	751.5	751.5	757.5	766.4
50°	714.8	723.7	707.8	711.8	706.8
52.5°	669.1	669.1	663.2	670.1	662.2
55°	623.5	630.4	619.5	619.5	615.5
57.5°	576.8	581.8	569.8	573.8	577.8
60°	530.1	525.2	520.2	519.2	515.2
62.5°	486.5	482.5	470.6	469.6	463.6
65°	428.9	431.9	418.9	424.9	410.0
67.5°	374.3	373.3	366.3	363.4	355.4
70°	323.6	325.6	313.7	310.7	301.8
72.5°	273.0	270.0	258.1	253.2	248.2
75°	216.4	213.4	207.5	196.6	199.5
77.5°	164.8	160.8	156.9	144.9	142.0
80°	117.1	112.2	102.3	97.3	96.3
82.5°	70.5	67.5	60.6	54.6	51.6
85°	31.8	30.8	24.8	21.8	20.8
87.5°	7.9	6.9	6.0	6.0	5.0
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	27.0	25.8	27.3	27.7	25.3	27.0	25.7	27.3	27.6
	3H	27.2	28.6	27.5	29.0	29.3	27.0	28.5	27.4	28.8	29.1
	4H	27.8	29.2	28.2	29.5	29.9	27.5	28.9	27.9	29.3	29.6
	6H	28.2	29.4	28.6	29.8	30.2	27.8	29.1	28.2	29.5	29.9
	8H	28.2	29.5	28.7	29.9	30.3	27.9	29.1	28.3	29.5	29.9
	12H	28.3	29.4	28.7	29.8	30.3	27.9	29.0	28.3	29.4	29.9
4H	2H	26.0	27.4	26.4	27.7	28.1	25.9	27.3	26.3	27.7	28.1
	3H	28.0	29.1	28.4	29.5	29.9	27.8	29.0	28.2	29.4	29.8
	4H	28.7	29.7	29.1	30.2	30.6	28.4	29.5	28.9	29.9	30.3
	6H	29.2	30.1	29.6	30.5	31.0	28.8	29.8	29.3	30.2	30.6
	8H	29.3	30.1	29.8	30.6	31.1	28.9	29.8	29.4	30.2	30.7
	12H	29.3	30.1	29.8	30.6	31.1	28.9	29.7	29.4	30.2	30.6
8H	4H	28.9	29.8	29.4	30.2	30.7	28.7	29.6	29.2	30.0	30.5
	6H	29.5	30.2	30.0	30.7	31.2	29.2	29.9	29.7	30.4	30.8
	8H	29.7	30.3	30.2	30.8	31.3	29.3	29.9	29.8	30.4	30.9
	12H	29.7	30.3	30.3	30.8	31.4	29.3	29.9	29.8	30.4	30.9
12H	4H	28.9	29.7	29.4	30.2	30.7	28.7	29.5	29.2	30.0	30.4
	6H	29.5	30.2	30.0	30.6	31.2	29.2	29.8	29.7	30.3	30.8
	8H	29.7	30.3	30.2	30.8	31.3	29.3	29.9	29.8	30.4	30.9

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