

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: P1212269

Luminaire Tested: SEC3HSHWMBLK-6500K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212269
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC3HSHWMBLK-6500K
Description: 120V SEL3500 Motion 3H Blk at 6500K

Light Source:
Ballast/Driver: -

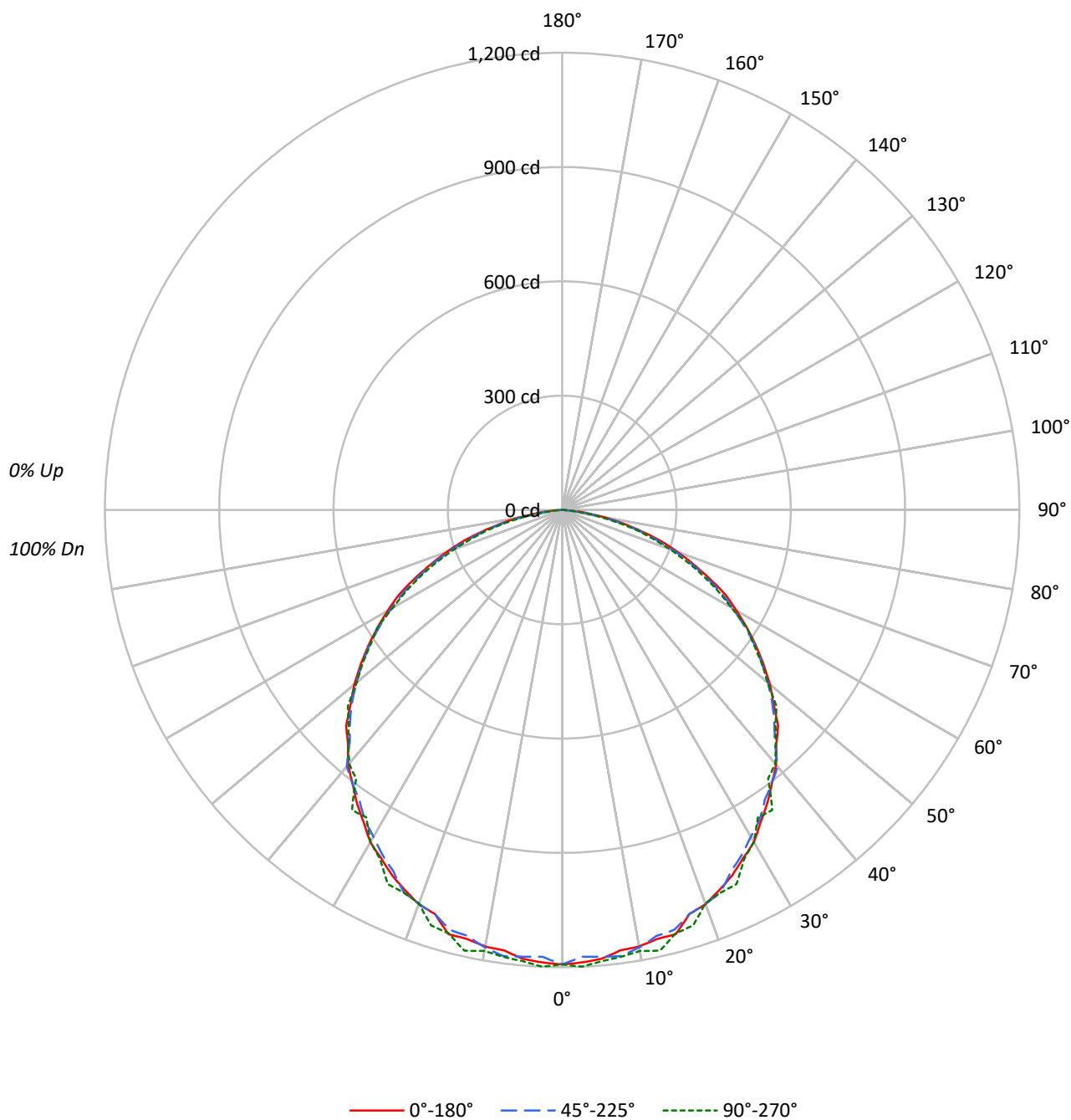
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3346.1 lumens
Efficiency: N/A
Efficacy: 117.8 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: >0.34
Total Harmonic Distortion (THDi): <45
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	96	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	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	46	46	44
6	70	57	48	41	68	56	47	41	54	47	41	52	46	41	51	45	40	40	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	36	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	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	26	37	31	26	36	30	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	47549	47549	47549
5°	47334	47098	47570
10°	47080	47201	47562
15°	47554	47063	47472
20°	46701	46659	46616
25°	46508	46073	47639
30°	46351	45578	46305
35°	45684	45159	46789
40°	45459	45766	45256
45°	45183	44399	44624
50°	44128	43694	43632
55°	43128	42857	42579
60°	42075	41286	40887
65°	40270	39336	38497
70°	37544	36390	35015
75°	33178	31808	30591
80°	26769	23371	21994
85°	14454	11298	9514

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 45183 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	3.4
10°-20°	322.3	9.6
20°-30°	487.9	14.6
30°-40°	586.8	17.5
40°-50°	611.9	18.3
50°-60°	552.6	16.5
60°-70°	414.6	12.4
70°-80°	217.9	6.5
80°-90°	39.3	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°	922.9	27.6
0°-40°	1509.7	45.1
0°-60°	2674.2	79.9
0°-90°	3346.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3346.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1193	1193	1193	1193	1193	
5°	1183	1180	1177	1197	1189	112
15°	1152	1147	1140	1153	1150	321
25°	1057	1065	1047	1070	1083	487
35°	939	939	928	950	961	588
45°	801	796	788	794	792	614
55°	620	628	617	617	613	555
65°	427	430	417	423	408	423
75°	215	212	206	196	199	229
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°	1192.7	1192.7	1192.7	1192.7	1192.7
2.5°	1188.7	1194.6	1173.9	1190.7	1199.6
5°	1182.8	1179.8	1176.9	1196.6	1188.7
7.5°	1166.0	1181.8	1180.8	1179.8	1182.8
10°	1163.0	1171.9	1166.0	1177.8	1174.9
12.5°	1153.1	1162.0	1145.2	1160.1	1184.8
15°	1152.2	1147.2	1140.3	1153.1	1150.2
17.5°	1111.6	1103.7	1111.6	1127.5	1143.3
20°	1100.8	1106.7	1099.8	1113.6	1098.8
22.5°	1079.0	1084.0	1086.0	1084.0	1086.9
25°	1057.3	1065.2	1047.4	1070.1	1083.0
27.5°	1029.6	1028.6	1020.7	1033.6	1033.6
30°	1006.9	1004.9	990.1	1003.9	1005.9
32.5°	970.3	963.4	964.4	963.4	956.5
35°	938.7	938.7	927.9	949.6	961.4
37.5°	904.1	906.1	904.1	906.1	888.3
40°	873.5	872.5	879.4	871.5	869.6
42.5°	832.0	836.0	825.1	836.0	830.0
45°	801.4	796.4	787.5	793.5	791.5
47.5°	752.0	748.0	748.0	753.9	762.8
50°	711.5	720.3	704.5	708.5	703.5
52.5°	666.0	666.0	660.1	667.0	659.1
55°	620.5	627.5	616.6	616.6	612.6
57.5°	574.1	579.0	567.2	571.1	575.1
60°	527.7	522.7	517.8	516.8	512.8
62.5°	484.2	480.2	468.4	467.4	461.5
65°	426.9	429.8	417.0	422.9	408.1
67.5°	372.5	371.5	364.6	361.7	353.7
70°	322.1	324.1	312.2	309.3	300.4
72.5°	271.7	268.8	256.9	252.0	247.0
75°	215.4	212.4	206.5	195.6	198.6
77.5°	164.0	160.1	156.1	144.3	141.3
80°	116.6	111.7	101.8	96.8	95.8
82.5°	70.2	67.2	60.3	54.3	51.4
85°	31.6	30.6	24.7	21.7	20.8
87.5°	7.9	6.9	5.9	5.9	4.9
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	25.7	27.3	27.6	25.3	26.9	25.7	27.3	27.6
	3H	27.1	28.6	27.5	28.9	29.3	27.0	28.4	27.3	28.8	29.1
	4H	27.8	29.1	28.1	29.5	29.9	27.5	28.9	27.9	29.2	29.6
	6H	28.1	29.4	28.5	29.8	30.2	27.8	29.1	28.2	29.5	29.8
	8H	28.2	29.4	28.6	29.8	30.2	27.9	29.1	28.3	29.5	29.9
	12H	28.3	29.4	28.7	29.8	30.2	27.9	29.0	28.3	29.4	29.8
4H	2H	26.0	27.4	26.4	27.7	28.1	25.9	27.3	26.3	27.7	28.0
	3H	28.0	29.1	28.4	29.5	29.9	27.8	29.0	28.2	29.3	29.7
	4H	28.7	29.7	29.1	30.1	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	29.7	29.3	30.2	30.6
	8H	29.3	30.1	29.7	30.6	31.0	28.9	29.7	29.3	30.2	30.7
	12H	29.3	30.1	29.8	30.6	31.0	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	29.6	30.3	30.2	30.8	31.3	29.3	29.9	29.8	30.4	30.9
	12H	29.7	30.3	30.2	30.8	31.3	29.3	29.9	29.8	30.4	30.9
12H	4H	28.9	29.7	29.4	30.2	30.6	28.7	29.5	29.2	30.0	30.4
	6H	29.5	30.1	30.0	30.6	31.1	29.2	29.8	29.7	30.3	30.8
	8H	29.7	30.3	30.2	30.7	31.3	29.3	29.9	29.8	30.4	30.9

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