

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: P1212265

Luminaire Tested: SEC3HSHWMBLK-4000K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212265
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC3HSHWMBLK-4000K
Description: 120V SEL3500 Motion 3H Blk at 4000K

Light Source:
Ballast/Driver: -

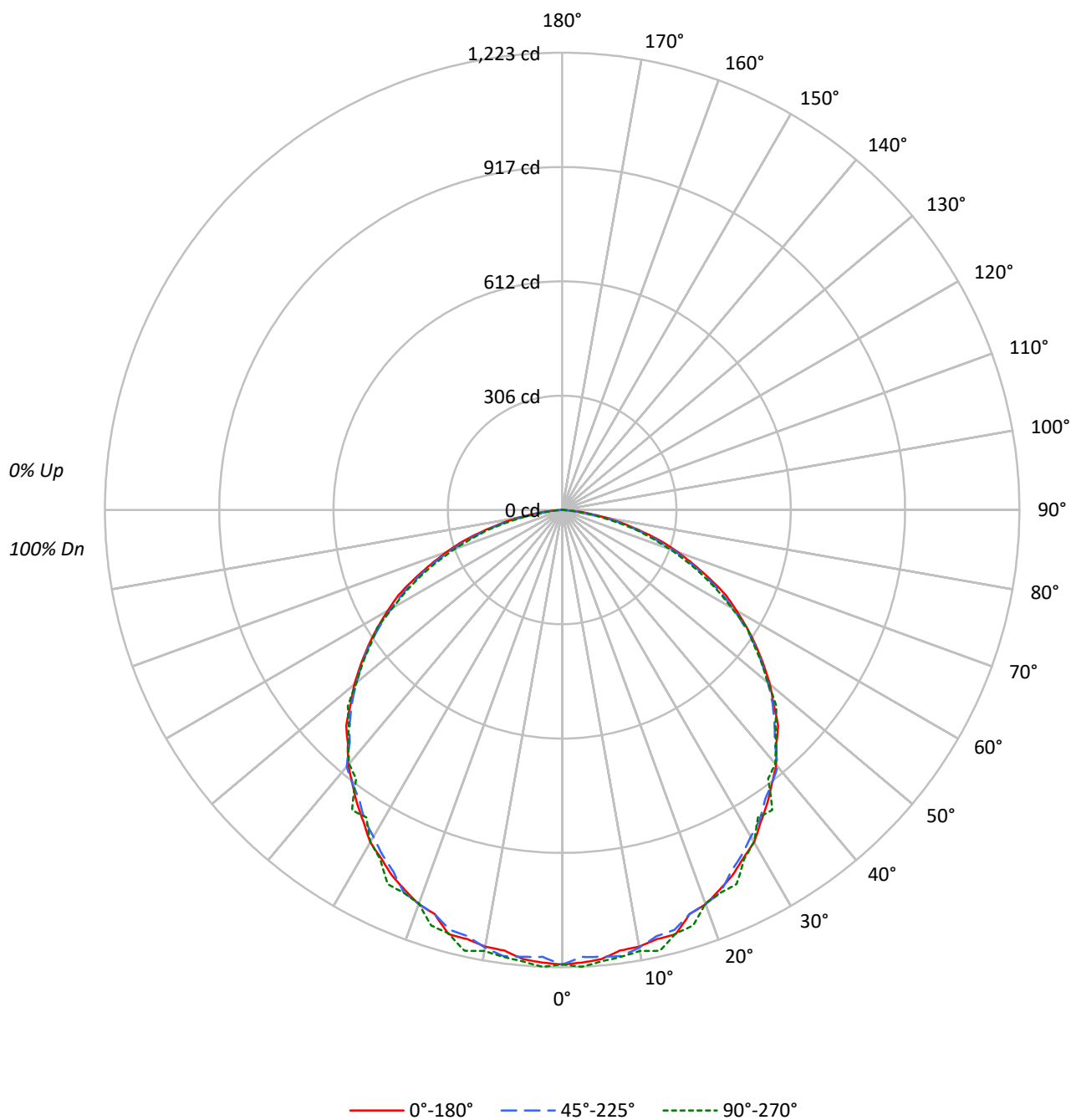
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3410.9 lumens
Efficiency: N/A
Efficacy: 120.1 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: >0.18
Total Harmonic Distortion (THDi): <29
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	52	47		58	51	46		56
6	70	57	48	41	68	56	47	41	54	47	41		52	46	41		51
7	65	52	43	37	63	51	42	36	49	42	36		48	41	36		46
8	61	47	38	33	59	46	38	33	45	38	32		44	37	32		43
9	57	43	35	29	55	43	35	29	41	34	29		40	34	29		39
10	53	40	32	27	52	39	32	27	38	31	26		37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	48470	48470	48470
5°	48250	48010	48491
10°	47995	48116	48480
15°	48475	47975	48392
20°	47605	47563	47520
25°	47410	46966	48562
30°	47249	46462	47203
35°	46570	46030	47699
40°	46338	46655	46130
45°	46056	45261	45487
50°	44978	44544	44481
55°	43969	43684	43406
60°	42888	42083	41684
65°	41044	40100	39242
70°	38279	37101	35691
75°	33825	32424	31191
80°	27297	23808	22430
85°	14729	11527	9697

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 46056 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	3.4
10°-20°	328.5	9.6
20°-30°	497.4	14.6
30°-40°	598.1	17.5
40°-50°	623.7	18.3
50°-60°	563.3	16.5
60°-70°	422.6	12.4
70°-80°	222.2	6.5
80°-90°	40.1	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°	940.8	27.6
0°-40°	1538.9	45.1
0°-60°	2726.0	79.9
0°-90°	3410.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3410.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1206	1203	1200	1220	1212	114
15°	1174	1169	1162	1176	1172	328
25°	1078	1086	1068	1091	1104	496
35°	957	957	946	968	980	599
45°	817	812	803	809	807	625
55°	633	640	628	628	624	565
65°	435	438	425	431	416	431
75°	220	217	210	199	202	234
85°	32	31	25	22	21	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1215.8	1215.8	1215.8	1215.8	1215.8
2.5°	1211.7	1217.8	1196.6	1213.8	1222.8
5°	1205.7	1202.7	1199.7	1219.8	1211.7
7.5°	1188.6	1204.7	1203.7	1202.7	1205.7
10°	1185.6	1194.6	1188.6	1200.7	1197.6
12.5°	1175.5	1184.5	1167.4	1182.5	1207.7
15°	1174.5	1169.4	1162.4	1175.5	1172.5
17.5°	1133.2	1125.1	1133.2	1149.3	1165.4
20°	1122.1	1128.1	1121.1	1135.2	1120.1
22.5°	1099.9	1105.0	1107.0	1105.0	1108.0
25°	1077.8	1085.8	1067.7	1090.9	1104.0
27.5°	1049.6	1048.6	1040.5	1053.6	1053.6
30°	1026.4	1024.4	1009.3	1023.4	1025.4
32.5°	989.1	982.1	983.1	982.1	975.0
35°	956.9	956.9	945.8	968.0	980.1
37.5°	921.6	923.7	921.6	923.7	905.5
40°	890.4	889.4	896.5	888.4	886.4
42.5°	848.1	852.1	841.1	852.1	846.1
45°	816.9	811.9	802.8	808.8	806.8
47.5°	766.5	762.5	762.5	768.5	777.6
50°	725.2	734.3	718.2	722.2	717.2
52.5°	678.9	678.9	672.9	679.9	671.8
55°	632.6	639.6	628.5	628.5	624.5
57.5°	585.2	590.3	578.2	582.2	586.2
60°	537.9	532.8	527.8	526.8	522.8
62.5°	493.6	489.5	477.4	476.4	470.4
65°	435.1	438.2	425.1	431.1	416.0
67.5°	379.7	378.7	371.7	368.7	360.6
70°	328.4	330.4	318.3	315.3	306.2
72.5°	277.0	274.0	261.9	256.9	251.8
75°	219.6	216.6	210.5	199.4	202.5
77.5°	167.2	163.2	159.1	147.1	144.0
80°	118.9	113.8	103.7	98.7	97.7
82.5°	71.5	68.5	61.4	55.4	52.4
85°	32.2	31.2	25.2	22.2	21.2
87.5°	8.1	7.1	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	25.5	27.1	25.8	27.4	27.7	25.4	27.0	25.7	27.3	27.6
	3H	27.2	28.7	27.6	29.0	29.4	27.0	28.5	27.4	28.8	29.2
	4H	27.8	29.2	28.2	29.6	29.9	27.6	29.0	28.0	29.3	29.7
	6H	28.2	29.5	28.6	29.9	30.2	27.9	29.2	28.3	29.5	29.9
	8H	28.3	29.5	28.7	29.9	30.3	27.9	29.1	28.3	29.5	29.9
	12H	28.3	29.5	28.7	29.9	30.3	27.9	29.1	28.4	29.5	29.9
4H	2H	26.1	27.4	26.4	27.8	28.2	26.0	27.4	26.4	27.7	28.1
	3H	28.0	29.2	28.4	29.6	30.0	27.9	29.0	28.3	29.4	29.8
	4H	28.7	29.8	29.2	30.2	30.6	28.5	29.5	28.9	30.0	30.4
	6H	29.2	30.1	29.7	30.6	31.0	28.9	29.8	29.3	30.2	30.7
	8H	29.3	30.2	29.8	30.6	31.1	29.0	29.8	29.4	30.3	30.7
	12H	29.4	30.2	29.9	30.6	31.1	29.0	29.7	29.5	30.2	30.7
8H	4H	29.0	29.8	29.5	30.3	30.8	28.8	29.6	29.2	30.1	30.5
	6H	29.6	30.3	30.0	30.7	31.2	29.2	29.9	29.7	30.4	30.9
	8H	29.7	30.3	30.2	30.9	31.3	29.3	30.0	29.8	30.5	31.0
	12H	29.8	30.4	30.3	30.8	31.4	29.4	29.9	29.9	30.4	31.0
12H	4H	29.0	29.8	29.5	30.2	30.7	28.8	29.6	29.3	30.0	30.5
	6H	29.6	30.2	30.1	30.7	31.2	29.3	29.9	29.8	30.4	30.9
	8H	29.8	30.3	30.3	30.8	31.4	29.4	29.9	29.9	30.4	31.0

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