

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: P1219867

Luminaire Tested: SEC3HSBATMBLK-5000k

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219867
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC3HSBATMBLK-5000k
Description: BAT SEL 1500 Motion 3H Blk at 5000K

Light Source:
Ballast/Driver: -

Summary

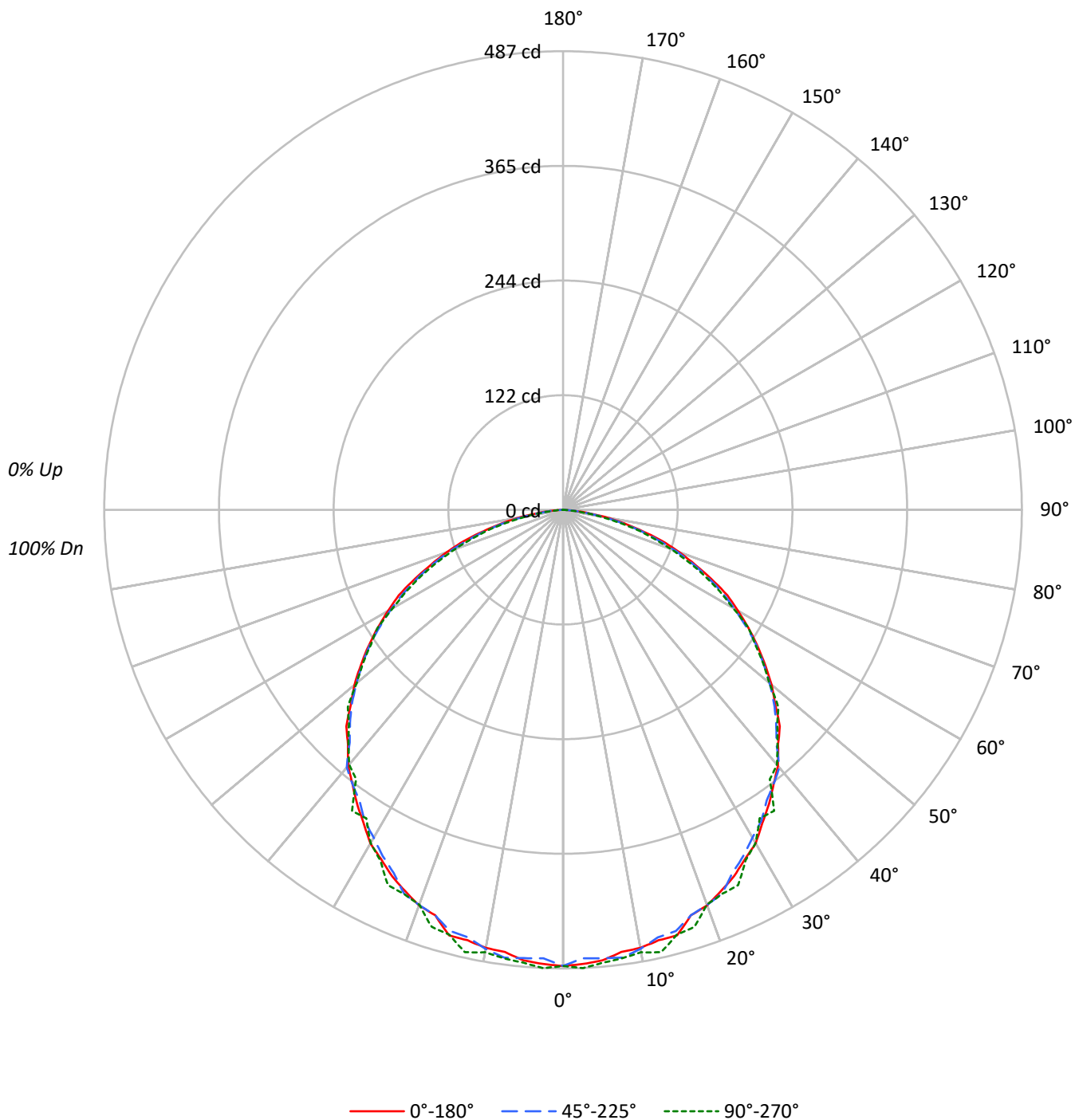
Lumens per Lamp: N/A
Luminaire Lumens: 1358.7 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 1.08' x H: 0')
CIE Type: Direct

Input Watts (W): 12
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: >0.23
Total Harmonic Distortion (THDi): <34
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°	19307	19307	19307
5°	19221	19125	19317
10°	19119	19168	19314
15°	19307	19109	19274
20°	18964	18947	18930
25°	18884	18708	19346
30°	18823	18506	18805
35°	18552	18338	19000
40°	18459	18584	18376
45°	18346	18030	18120
50°	17918	17744	17719
55°	17515	17404	17293
60°	17087	16760	16600
65°	16348	15970	15631
70°	15246	14780	14220
75°	13478	12923	12415
80°	10859	9482	8931
85°	5855	4574	3842

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18346 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	3.4
10°-20°	130.9	9.6
20°-30°	198.1	14.6
30°-40°	238.3	17.5
40°-50°	248.5	18.3
50°-60°	224.4	16.5
60°-70°	168.4	12.4
70°-80°	88.5	6.5
80°-90°	16.0	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°	374.8	27.6
0°-40°	613.0	45.1
0°-60°	1085.9	79.9
0°-90°	1358.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1358.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	484	484	484	484	484	
5°	480	479	478	486	483	45
15°	468	466	463	468	467	130
25°	429	432	425	434	440	198
35°	381	381	377	386	390	239
45°	325	323	320	322	321	249
55°	252	255	250	250	249	225
65°	173	174	169	172	166	172
75°	88	86	84	79	81	93
85°	13	12	10	9	8	19
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	484.3	484.3	484.3	484.3	484.3
2.5°	482.7	485.1	476.7	483.5	487.1
5°	480.3	479.1	477.9	485.9	482.7
7.5°	473.5	479.9	479.5	479.1	480.3
10°	472.3	475.9	473.5	478.3	477.1
12.5°	468.2	471.9	465.0	471.1	481.1
15°	467.8	465.8	463.0	468.2	467.0
17.5°	451.4	448.2	451.4	457.8	464.2
20°	447.0	449.4	446.6	452.2	446.2
22.5°	438.1	440.2	441.0	440.2	441.4
25°	429.3	432.5	425.3	434.5	439.8
27.5°	418.1	417.7	414.5	419.7	419.7
30°	408.9	408.1	402.0	407.7	408.5
32.5°	394.0	391.2	391.6	391.2	388.4
35°	381.2	381.2	376.8	385.6	390.4
37.5°	367.1	367.9	367.1	367.9	360.7
40°	354.7	354.3	357.1	353.9	353.1
42.5°	337.8	339.4	335.0	339.4	337.0
45°	325.4	323.4	319.8	322.2	321.4
47.5°	305.3	303.7	303.7	306.1	309.8
50°	288.9	292.5	286.1	287.7	285.7
52.5°	270.4	270.4	268.0	270.8	267.6
55°	252.0	254.8	250.4	250.4	248.8
57.5°	233.1	235.1	230.3	231.9	233.5
60°	214.3	212.3	210.2	209.8	208.2
62.5°	196.6	195.0	190.2	189.8	187.4
65°	173.3	174.5	169.3	171.7	165.7
67.5°	151.3	150.9	148.1	146.9	143.6
70°	130.8	131.6	126.8	125.6	122.0
72.5°	110.3	109.1	104.3	102.3	100.3
75°	87.5	86.3	83.9	79.4	80.6
77.5°	66.6	65.0	63.4	58.6	57.4
80°	47.3	45.3	41.3	39.3	38.9
82.5°	28.5	27.3	24.5	22.1	20.9
85°	12.8	12.4	10.0	8.8	8.4
87.5°	3.2	2.8	2.4	2.4	2.0
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	22.3	23.9	22.6	24.2	24.5	22.2	23.8	22.5	24.1	24.4
	3H	24.0	25.5	24.4	25.8	26.2	23.8	25.3	24.2	25.6	26.0
	4H	24.6	26.0	25.0	26.4	26.7	24.4	25.8	24.8	26.1	26.5
	6H	25.0	26.3	25.4	26.7	27.0	24.7	26.0	25.1	26.3	26.7
	8H	25.1	26.3	25.5	26.7	27.1	24.7	25.9	25.1	26.3	26.7
	12H	25.1	26.3	25.5	26.7	27.1	24.7	25.9	25.2	26.3	26.7
4H	2H	22.9	24.2	23.3	24.6	25.0	22.8	24.2	23.2	24.5	24.9
	3H	24.8	26.0	25.2	26.4	26.8	24.7	25.8	25.1	26.2	26.6
	4H	25.5	26.6	26.0	27.0	27.4	25.3	26.3	25.7	26.8	27.2
	6H	26.0	26.9	26.5	27.4	27.8	25.7	26.6	26.1	27.0	27.5
	8H	26.1	27.0	26.6	27.4	27.9	25.8	26.6	26.2	27.1	27.5
	12H	26.2	27.0	26.7	27.4	27.9	25.8	26.5	26.3	27.0	27.5
8H	4H	25.8	26.6	26.3	27.1	27.6	25.6	26.4	26.0	26.9	27.3
	6H	26.4	27.1	26.8	27.6	28.0	26.0	26.7	26.5	27.2	27.7
	8H	26.5	27.1	27.0	27.7	28.1	26.1	26.8	26.6	27.3	27.8
	12H	26.6	27.2	27.1	27.6	28.2	26.2	26.7	26.7	27.2	27.8
12H	4H	25.8	26.6	26.3	27.0	27.5	25.6	26.4	26.1	26.8	27.3
	6H	26.4	27.0	26.9	27.5	28.0	26.1	26.7	26.6	27.2	27.7
	8H	26.6	27.1	27.1	27.6	28.2	26.2	26.7	26.7	27.2	27.8

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