

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: P1219847

Luminaire Tested: SECHSBATMBLK-5000k

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219847
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SECHSBATMBLK-5000k
Description: BAT SEL 800 Motion 1H Blk at 5000K

Light Source:
Ballast/Driver: -

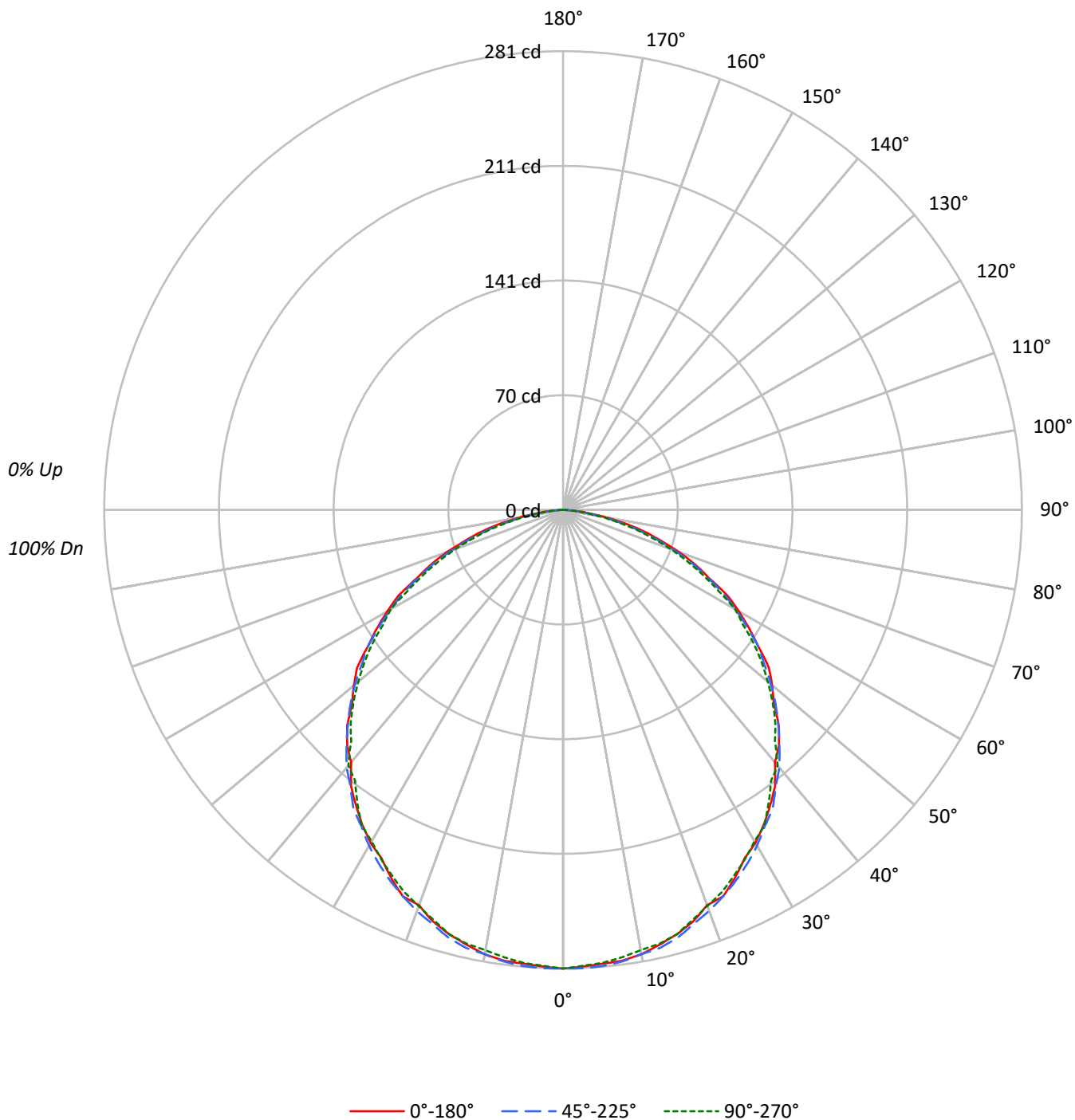
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 784.2 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 6.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: >0.21
Total Harmonic Distortion (THDi): <32
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	63		70
4	83	71	62	55	80	70	61	55	67	60	54		65	59	54		63
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	41	54	47	41		53	46	41		51
7	65	52	43	37	63	51	42	37	49	42	36		48	41	36		46
8	61	47	39	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	27		37	31	26		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28817	28817	28817
5°	28721	28875	28669
10°	28782	28782	28512
15°	28570	28793	28570
20°	28124	28528	28190
25°	28165	28346	27995
30°	27889	28125	27758
35°	27670	27995	27470
40°	27019	27581	27367
45°	27096	27024	26647
50°	26666	26506	26091
55°	26094	26094	25451
60°	25485	25054	24952
65°	23869	23602	22971
70°	22660	21730	20951
75°	20517	18853	18061
80°	15880	14050	13165
85°	9174	6704	6116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 47.5°

Luminance: 27101 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.6	3.4
10°-20°	76.0	9.7
20°-30°	114.9	14.6
30°-40°	138.4	17.6
40°-50°	143.2	18.3
50°-60°	129.1	16.5
60°-70°	96.3	12.3
70°-80°	50.6	6.5
80°-90°	9.1	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°	217.4	27.7
0°-40°	355.8	45.4
0°-60°	628.2	80.1
0°-90°	784.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	784.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	281	281	281	281	281	
5°	279	280	281	279	279	27
15°	269	269	271	269	269	76
25°	249	248	251	250	248	115
35°	221	222	224	220	220	138
45°	187	186	186	183	184	143
55°	146	146	146	143	142	131
65°	98	99	97	96	95	99
75°	52	50	48	46	46	54
85°	8	7	6	5	5	11
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	281.1	281.1	281.1	281.1	281.1
2.5°	280.1	280.1	281.1	279.1	279.6
5°	279.1	280.1	280.6	278.6	278.6
7.5°	278.6	277.5	279.1	278.6	276.5
10°	276.5	275.4	276.5	274.9	273.9
12.5°	272.9	271.3	274.9	273.9	272.3
15°	269.2	269.2	271.3	268.7	269.2
17.5°	264.6	266.6	266.1	264.1	263.5
20°	257.8	259.9	261.5	260.4	258.4
22.5°	256.3	255.3	256.3	255.8	253.7
25°	249.0	247.5	250.6	250.1	247.5
27.5°	240.8	243.3	244.4	242.3	241.3
30°	235.6	236.6	237.6	235.6	234.5
32.5°	228.8	228.8	229.9	227.3	229.4
35°	221.1	221.6	223.7	220.0	219.5
37.5°	213.3	215.4	213.8	211.2	209.2
40°	201.9	206.1	206.1	204.0	204.5
42.5°	195.7	196.2	196.2	194.7	192.1
45°	186.9	185.9	186.4	183.3	183.8
47.5°	175.0	178.6	176.6	174.5	174.0
50°	167.2	167.8	166.2	163.6	163.6
52.5°	158.9	156.9	155.3	153.8	153.3
55°	146.0	145.5	146.0	143.4	142.4
57.5°	135.1	135.1	133.6	131.0	130.5
60°	124.3	123.7	122.2	119.6	121.7
62.5°	113.4	110.8	110.3	107.2	107.2
65°	98.4	99.4	97.3	95.8	94.7
67.5°	87.5	87.5	85.4	82.8	82.3
70°	75.6	74.6	72.5	70.4	69.9
72.5°	62.6	62.1	60.1	58.0	57.5
75°	51.8	49.7	47.6	45.6	45.6
77.5°	39.3	37.8	35.2	33.7	33.1
80°	26.9	25.9	23.8	22.8	22.3
82.5°	16.6	15.5	13.5	12.4	11.9
85°	7.8	6.7	5.7	5.2	5.2
87.5°	1.6	1.6	1.6	1.0	1.6
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	23.6	25.2	24.0	25.6	25.9	23.4	25.0	23.8	25.3	25.7
	3H	25.4	26.8	25.8	27.2	27.5	25.1	26.5	25.4	26.9	27.2
	4H	26.0	27.4	26.4	27.7	28.1	25.6	27.0	26.0	27.4	27.7
	6H	26.4	27.7	26.8	28.0	28.4	25.9	27.2	26.3	27.6	28.0
	8H	26.5	27.7	26.9	28.1	28.5	26.0	27.2	26.4	27.6	28.0
	12H	26.5	27.7	26.9	28.1	28.5	26.0	27.2	26.4	27.5	28.0
4H	2H	24.2	25.6	24.6	25.9	26.3	24.0	25.4	24.4	25.8	26.1
	3H	26.2	27.3	26.6	27.7	28.1	25.9	27.1	26.3	27.5	27.9
	4H	26.9	28.0	27.3	28.4	28.8	26.6	27.6	27.0	28.0	28.5
	6H	27.4	28.3	27.9	28.8	29.2	27.0	27.9	27.4	28.3	28.8
	8H	27.5	28.4	28.0	28.8	29.3	27.0	27.9	27.5	28.3	28.8
	12H	27.6	28.3	28.0	28.8	29.3	27.1	27.8	27.5	28.3	28.8
8H	4H	27.1	28.0	27.6	28.4	28.9	26.8	27.7	27.3	28.1	28.6
	6H	27.7	28.4	28.2	28.9	29.4	27.3	28.0	27.8	28.5	29.0
	8H	27.9	28.5	28.4	29.0	29.5	27.4	28.0	27.9	28.5	29.0
	12H	28.0	28.5	28.5	29.0	29.6	27.4	28.0	28.0	28.5	29.1
12H	4H	27.2	27.9	27.6	28.4	28.9	26.9	27.6	27.3	28.1	28.6
	6H	27.7	28.4	28.3	28.8	29.4	27.3	28.0	27.9	28.4	29.0
	8H	27.9	28.5	28.4	29.0	29.5	27.5	28.0	28.0	28.5	29.1

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