

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: P1219848

Luminaire Tested: SECHSBATMBLK-6500k

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219848
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SECHSBATMBLK-6500k
Description: BAT SEL 800 Motion 1H Blk at 6500K

Light Source:
Ballast/Driver: -

Summary

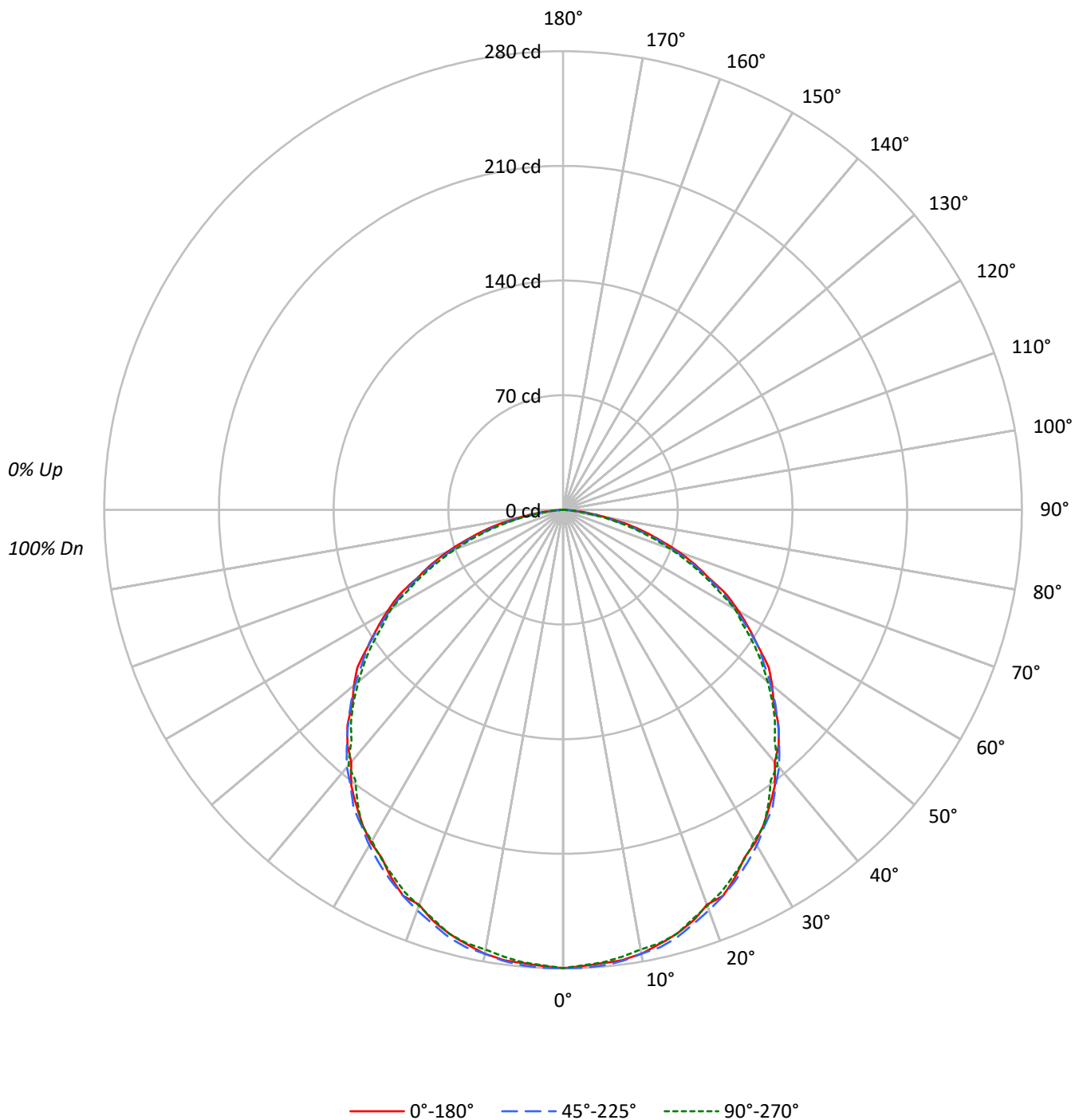
Lumens per Lamp: N/A
Luminaire Lumens: 780.5 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 6.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: >0.27
Total Harmonic Distortion (THDi): <38
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°	28683	28683	28683
5°	28587	28741	28536
10°	28647	28647	28376
15°	28443	28655	28443
20°	27993	28386	28059
25°	28040	28210	27859
30°	27758	27995	27628
35°	27532	27857	27344
40°	26898	27447	27246
45°	26966	26893	26516
50°	26554	26378	25964
55°	25969	25969	25326
60°	25362	24931	24829
65°	23747	23505	22874
70°	22540	21610	20861
75°	20398	18774	17942
80°	15821	13991	13106
85°	9057	6704	6116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 47.5°

Luminance: 26979 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.4	3.4
10°-20°	75.7	9.7
20°-30°	114.3	14.6
30°-40°	137.7	17.6
40°-50°	142.5	18.3
50°-60°	128.5	16.5
60°-70°	95.9	12.3
70°-80°	50.4	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°	216.4	27.7
0°-40°	354.2	45.4
0°-60°	625.2	80.1
0°-90°	780.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	780.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	280	280	280	280	280	
5°	278	279	279	277	277	26
15°	268	268	270	268	268	75
25°	248	246	249	249	246	114
35°	220	221	223	219	218	137
45°	186	185	186	182	183	143
55°	145	145	145	143	142	130
65°	98	99	97	95	94	98
75°	52	50	47	45	45	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°	279.8	279.8	279.8	279.8	279.8
2.5°	278.8	278.8	279.8	277.8	278.3
5°	277.8	278.8	279.3	277.3	277.3
7.5°	277.3	276.2	277.8	277.3	275.2
10°	275.2	274.2	275.2	273.6	272.6
12.5°	271.6	270.0	273.6	272.6	271.1
15°	268.0	268.0	270.0	267.5	268.0
17.5°	263.3	265.4	264.9	262.8	262.3
20°	256.6	258.7	260.2	259.2	257.2
22.5°	255.1	254.1	255.1	254.6	252.5
25°	247.9	246.3	249.4	248.9	246.3
27.5°	239.6	242.2	243.2	241.2	240.1
30°	234.5	235.5	236.5	234.5	233.4
32.5°	227.8	227.8	228.8	226.2	228.3
35°	220.0	220.6	222.6	219.0	218.5
37.5°	212.3	214.4	212.8	210.3	208.2
40°	201.0	205.1	205.1	203.0	203.6
42.5°	194.8	195.3	195.3	193.8	191.2
45°	186.0	185.0	185.5	182.4	182.9
47.5°	174.2	177.8	175.7	173.7	173.2
50°	166.5	167.0	165.4	162.8	162.8
52.5°	158.2	156.1	154.6	153.1	152.5
55°	145.3	144.8	145.3	142.7	141.7
57.5°	134.5	134.5	133.0	130.4	129.9
60°	123.7	123.2	121.6	119.0	121.1
62.5°	112.9	110.3	109.8	106.7	106.7
65°	97.9	98.9	96.9	95.3	94.3
67.5°	87.1	87.1	85.0	82.5	81.9
70°	75.2	74.2	72.1	70.1	69.6
72.5°	62.4	61.8	59.8	57.7	57.2
75°	51.5	49.5	47.4	45.3	45.3
77.5°	39.2	37.6	35.0	33.5	33.0
80°	26.8	25.8	23.7	22.7	22.2
82.5°	16.5	15.5	13.4	12.4	11.9
85°	7.7	6.7	5.7	5.2	5.2
87.5°	1.5	1.5	1.5	1.0	1.5
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	25.5	25.9	23.4	25.0	23.7	25.3	25.6
	3H	25.4	26.8	25.7	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	27.3	27.7
	6H	26.4	27.6	26.8	28.0	28.4	25.9	27.2	26.3	27.6	27.9
	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	28.0	28.5	26.0	27.1	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	27.9	27.3	28.3	28.8	26.5	27.6	27.0	28.0	28.4
	6H	27.4	28.3	27.8	28.7	29.2	26.9	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	27.0	27.8	27.5	28.3	28.7
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	27.9	28.5	28.4	29.0	29.5	27.4	28.0	27.9	28.5	29.0
12H	4H	27.1	27.9	27.6	28.4	28.8	26.8	27.6	27.3	28.1	28.5
	6H	27.7	28.4	28.2	28.8	29.4	27.3	28.0	27.8	28.4	29.0
	8H	27.9	28.5	28.4	28.9	29.5	27.4	28.0	28.0	28.5	29.1

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