

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: P1219837

Luminaire Tested: SEC3HSSOLMBLK-5000K

Issue Date: 1/8/2026

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219837
Test Lab: INNOVATION CENTER
Issue Date: 1/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC3HSSOLMBLK-5000K
Description: Solar SEL 2000 5CCT Motion 3H BLK-5000K

Light Source:
Ballast/Driver: -

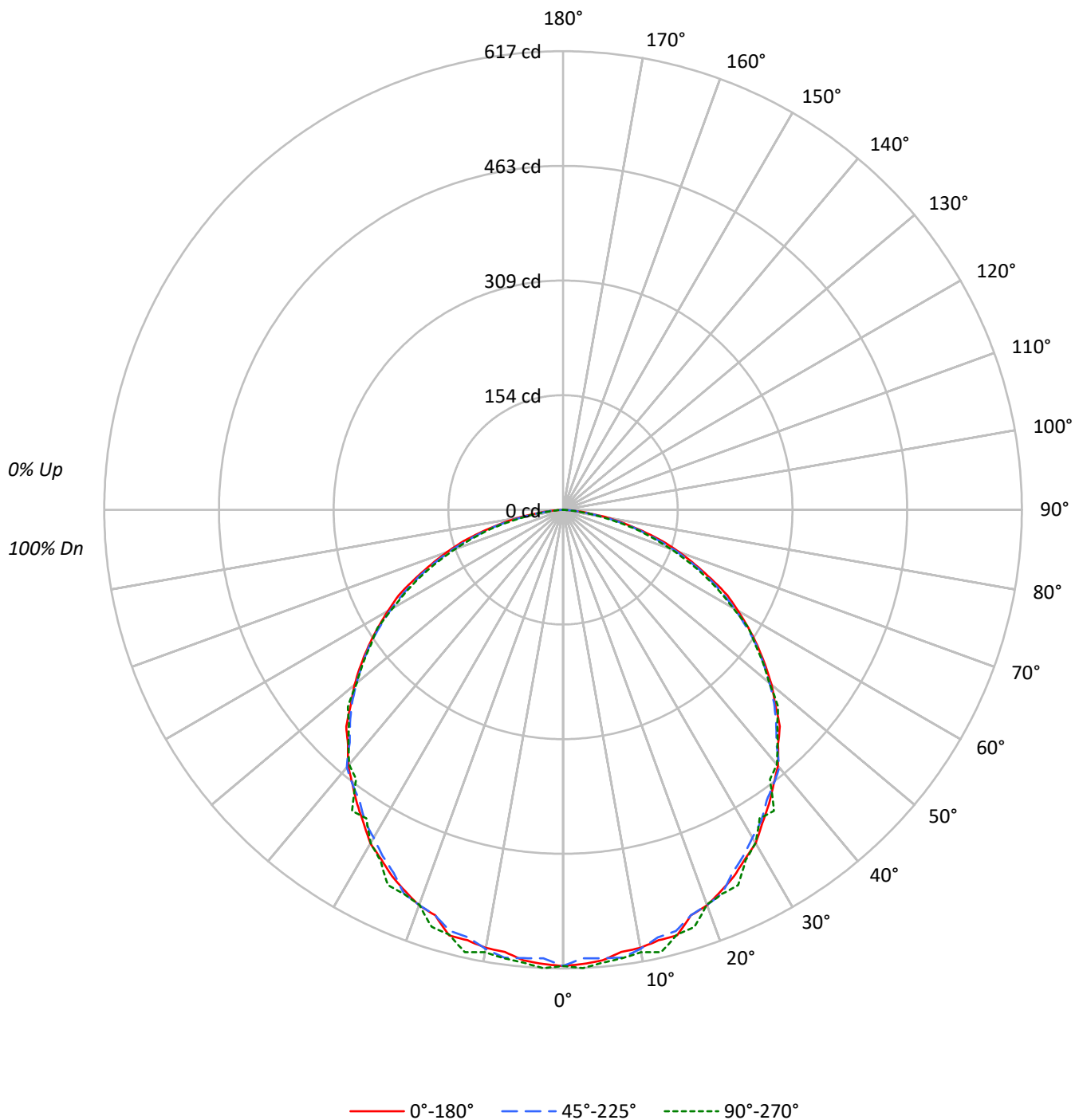
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1721.4 lumens
Efficiency: N/A
Efficacy: 114.8 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): 15
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°	24462	24462	24462
5°	24351	24227	24471
10°	24220	24281	24467
15°	24462	24211	24421
20°	24025	24004	23983
25°	23925	23701	24506
30°	23845	23450	23822
35°	23502	23229	24071
40°	23388	23544	23278
45°	23245	22839	22958
50°	22700	22476	22445
55°	22186	22047	21908
60°	21647	21241	21033
65°	20715	20234	19800
70°	19314	18720	18009
75°	17067	16358	15742
80°	13775	12030	11318
85°	7456	5809	4894

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 23245 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	3.4
10°-20°	165.8	9.6
20°-30°	251.0	14.6
30°-40°	301.9	17.5
40°-50°	314.8	18.3
50°-60°	284.3	16.5
60°-70°	213.3	12.4
70°-80°	112.1	6.5
80°-90°	20.3	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°	474.8	27.6
0°-40°	776.7	45.1
0°-60°	1375.7	79.9
0°-90°	1721.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1721.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	614	614	614	614	614	
5°	608	607	605	616	612	58
15°	593	590	587	593	592	165
25°	544	548	539	550	557	251
35°	483	483	477	488	495	302
45°	412	410	405	408	407	316
55°	319	323	317	317	315	285
65°	220	221	214	218	210	217
75°	111	109	106	101	102	118
85°	16	16	13	11	11	24
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	613.6	613.6	613.6	613.6	613.6
2.5°	611.5	614.6	603.9	612.6	617.1
5°	608.5	607.0	605.4	615.6	611.5
7.5°	599.8	608.0	607.5	607.0	608.5
10°	598.3	602.9	599.8	605.9	604.4
12.5°	593.2	597.8	589.2	596.8	609.5
15°	592.7	590.2	586.6	593.2	591.7
17.5°	571.9	567.8	571.9	580.0	588.2
20°	566.3	569.3	565.8	572.9	565.3
22.5°	555.1	557.7	558.7	557.7	559.2
25°	543.9	548.0	538.8	550.5	557.1
27.5°	529.7	529.2	525.1	531.7	531.7
30°	518.0	517.0	509.4	516.5	517.5
32.5°	499.2	495.6	496.1	495.6	492.1
35°	482.9	482.9	477.3	488.5	494.6
37.5°	465.1	466.2	465.1	466.2	457.0
40°	449.4	448.9	452.4	448.4	447.3
42.5°	428.0	430.1	424.5	430.1	427.0
45°	412.3	409.7	405.1	408.2	407.2
47.5°	386.8	384.8	384.8	387.9	392.4
50°	366.0	370.6	362.4	364.5	361.9
52.5°	342.6	342.6	339.6	343.1	339.1
55°	319.2	322.8	317.2	317.2	315.2
57.5°	295.3	297.9	291.8	293.8	295.9
60°	271.5	268.9	266.4	265.9	263.8
62.5°	249.1	247.1	241.0	240.4	237.4
65°	219.6	221.1	214.5	217.6	209.9
67.5°	191.6	191.1	187.6	186.1	182.0
70°	165.7	166.7	160.6	159.1	154.5
72.5°	139.8	138.3	132.2	129.6	127.1
75°	110.8	109.3	106.2	100.7	102.2
77.5°	84.4	82.4	80.3	74.2	72.7
80°	60.0	57.4	52.4	49.8	49.3
82.5°	36.1	34.6	31.0	28.0	26.4
85°	16.3	15.8	12.7	11.2	10.7
87.5°	4.1	3.6	3.1	3.1	2.5
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	23.1	24.7	23.4	25.0	25.3	23.0	24.6	23.4	24.9	25.3
	3H	24.8	26.3	25.2	26.6	27.0	24.7	26.1	25.0	26.5	26.8
	4H	25.4	26.8	25.8	27.2	27.6	25.2	26.6	25.6	26.9	27.3
	6H	25.8	27.1	26.2	27.5	27.9	25.5	26.8	25.9	27.1	27.5
	8H	25.9	27.1	26.3	27.5	27.9	25.5	26.8	26.0	27.2	27.6
	12H	25.9	27.1	26.4	27.5	27.9	25.5	26.7	26.0	27.1	27.5
4H	2H	23.7	25.1	24.1	25.4	25.8	23.6	25.0	24.0	25.3	25.7
	3H	25.6	26.8	26.1	27.2	27.6	25.5	26.6	25.9	27.0	27.4
	4H	26.4	27.4	26.8	27.8	28.3	26.1	27.2	26.6	27.6	28.0
	6H	26.9	27.8	27.3	28.2	28.7	26.5	27.4	27.0	27.9	28.3
	8H	27.0	27.8	27.4	28.3	28.7	26.6	27.4	27.0	27.9	28.3
	12H	27.0	27.8	27.5	28.3	28.7	26.6	27.4	27.1	27.8	28.3
8H	4H	26.6	27.5	27.1	27.9	28.4	26.4	27.2	26.9	27.7	28.2
	6H	27.2	27.9	27.7	28.4	28.8	26.9	27.6	27.3	28.0	28.5
	8H	27.3	28.0	27.8	28.5	29.0	27.0	27.6	27.5	28.1	28.6
	12H	27.4	28.0	27.9	28.5	29.0	27.0	27.6	27.5	28.0	28.6
12H	4H	26.6	27.4	27.1	27.9	28.3	26.4	27.2	26.9	27.7	28.1
	6H	27.2	27.8	27.7	28.3	28.8	26.9	27.5	27.4	28.0	28.5
	8H	27.4	27.9	27.9	28.4	29.0	27.0	27.6	27.5	28.1	28.6

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