

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: P1212283

Luminaire Tested: SEC2HSHWMBLK-5000K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212283
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC2HSHWMBLK-5000K
Description: 120V SEL 2500 Motion 2H Blk at 5000K

Light Source:
Ballast/Driver: -

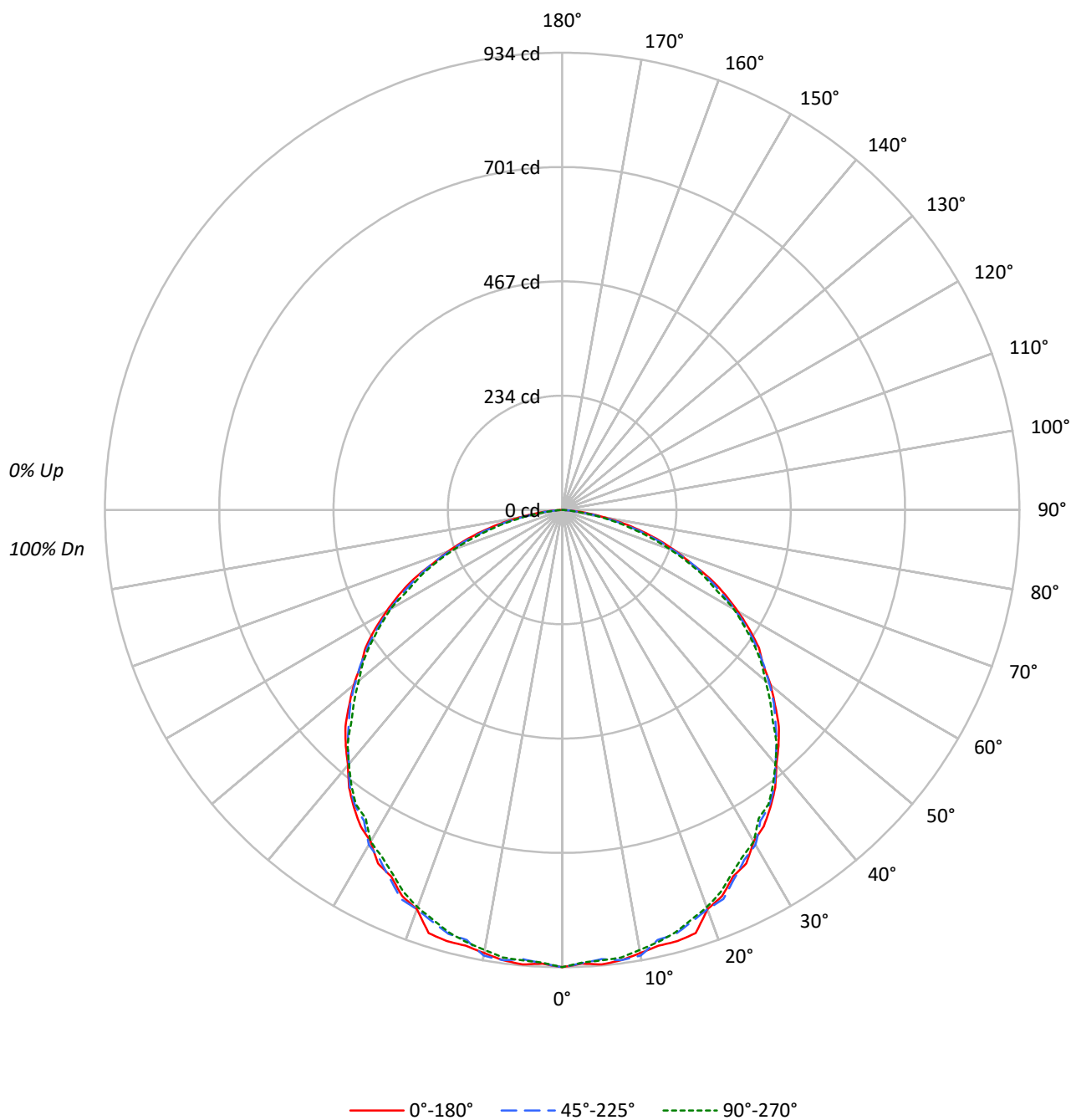
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2603.6 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.75' x H: 0')
CIE Type: Direct

Input Watts (W): 21.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: >0.25
Total Harmonic Distortion (THDi): <36
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	86	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	73	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	62	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	46	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	36	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	32	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	29	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	53613	53613	53613
5°	53697	53080	53207
10°	53571	53880	53198
15°	54173	53281	53091
20°	53009	53009	52747
25°	52321	52663	51915
30°	51851	52348	51851
35°	51973	51671	51447
40°	51012	50772	50772
45°	50839	50060	49361
50°	49630	49344	48388
55°	49093	48452	47812
60°	47602	46741	46500
65°	45574	44419	43400
70°	41610	40720	39277
75°	37685	35311	32938
80°	28960	25787	24034
85°	16203	11263	7772

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 50839 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	3.4
10°-20°	252.5	9.7
20°-30°	381.9	14.7
30°-40°	459.0	17.6
40°-50°	475.2	18.3
50°-60°	429.0	16.5
60°-70°	321.1	12.3
70°-80°	167.9	6.5
80°-90°	28.8	1.1
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°	722.5	27.8
0°-40°	1181.5	45.4
0°-60°	2085.7	80.1
0°-90°	2603.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2603.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	932	925	921	922	923	88
15°	912	891	896	876	893	256
25°	826	832	831	816	820	383
35°	742	736	737	727	734	463
45°	626	620	617	611	608	480
55°	490	486	484	473	478	435
65°	336	329	327	317	320	328
75°	170	164	159	151	148	178
85°	25	22	17	14	12	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	933.9	933.9	933.9	933.9	933.9
2.5°	927.5	935.0	926.5	924.3	925.4
5°	931.8	925.4	921.1	922.2	923.3
7.5°	927.5	922.2	927.5	917.9	922.2
10°	919.0	915.8	924.3	916.8	912.6
12.5°	911.5	906.2	899.8	900.8	904.0
15°	911.5	891.2	896.5	876.2	893.3
17.5°	906.2	879.4	881.6	889.1	877.3
20°	867.7	864.5	867.7	865.6	863.4
22.5°	853.8	852.7	860.2	841.0	845.3
25°	826.0	832.4	831.4	816.4	819.6
27.5°	814.3	808.9	805.7	808.9	798.2
30°	782.2	787.5	789.7	784.3	782.2
32.5°	766.2	763.0	753.4	753.4	746.9
35°	741.6	736.3	737.3	726.6	734.1
37.5°	714.9	708.5	712.7	695.7	707.4
40°	680.7	682.8	677.5	677.5	677.5
42.5°	654.0	651.8	647.6	637.9	648.6
45°	626.2	619.8	616.6	611.2	608.0
47.5°	589.9	587.7	586.7	574.9	576.0
50°	555.7	553.5	552.5	547.1	541.8
52.5°	516.1	515.1	518.3	510.8	512.9
55°	490.5	486.2	484.1	473.4	477.7
57.5°	453.1	442.4	446.7	437.1	440.3
60°	414.6	410.3	407.1	396.4	405.0
62.5°	376.1	368.7	366.5	359.0	354.8
65°	335.5	329.1	327.0	317.4	319.5
67.5°	285.3	290.7	287.5	277.8	276.8
70°	247.9	247.9	242.6	235.1	234.0
72.5°	209.4	206.2	202.0	194.5	191.3
75°	169.9	163.5	159.2	150.7	148.5
77.5°	129.3	124.0	118.6	111.1	110.1
80°	87.6	84.4	78.0	71.6	72.7
82.5°	54.5	51.3	44.9	39.5	39.5
85°	24.6	22.4	17.1	13.9	11.8
87.5°	5.3	4.3	3.2	2.1	2.1
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	25.7	27.3	26.1	27.7	28.0	25.6	27.2	26.0	27.5	27.9
	3H	27.5	28.9	27.8	29.3	29.6	27.3	28.7	27.7	29.1	29.4
	4H	28.1	29.5	28.5	29.8	30.2	27.8	29.2	28.2	29.5	29.9
	6H	28.5	29.8	28.9	30.1	30.5	28.1	29.4	28.5	29.8	30.1
	8H	28.6	29.8	29.0	30.2	30.6	28.2	29.4	28.6	29.8	30.2
	12H	28.6	29.8	29.0	30.1	30.6	28.2	29.3	28.6	29.7	30.1
4H	2H	26.3	27.7	26.7	28.1	28.4	26.2	27.6	26.6	28.0	28.4
	3H	28.3	29.5	28.7	29.9	30.3	28.1	29.3	28.5	29.7	30.1
	4H	29.0	30.1	29.5	30.5	30.9	28.8	29.8	29.2	30.2	30.7
	6H	29.5	30.4	30.0	30.9	31.3	29.1	30.1	29.6	30.5	30.9
	8H	29.6	30.5	30.1	30.9	31.4	29.2	30.1	29.7	30.5	31.0
	12H	29.7	30.4	30.2	30.9	31.4	29.2	30.0	29.7	30.5	30.9
8H	4H	29.3	30.1	29.7	30.6	31.0	29.0	29.9	29.5	30.3	30.8
	6H	29.8	30.5	30.3	31.0	31.5	29.5	30.2	30.0	30.7	31.1
	8H	30.0	30.6	30.5	31.1	31.6	29.6	30.2	30.1	30.7	31.2
	12H	30.1	30.6	30.6	31.1	31.7	29.6	30.2	30.1	30.6	31.2
12H	4H	29.3	30.0	29.8	30.5	31.0	29.0	29.8	29.5	30.3	30.8
	6H	29.9	30.5	30.4	30.9	31.5	29.5	30.1	30.0	30.6	31.1
	8H	30.0	30.6	30.5	31.1	31.6	29.6	30.2	30.1	30.7	31.2

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Peachtree City, GA 30269



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