

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: P1212263

Luminaire Tested: SEC3HSHWMBLK-3000K

Issue Date: 11/18/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1212263
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: SEC3HSHWMBLK-3000K
Description: 120V SEL3500 Motion 3H Blk at 3000K

Light Source:
Ballast/Driver: -

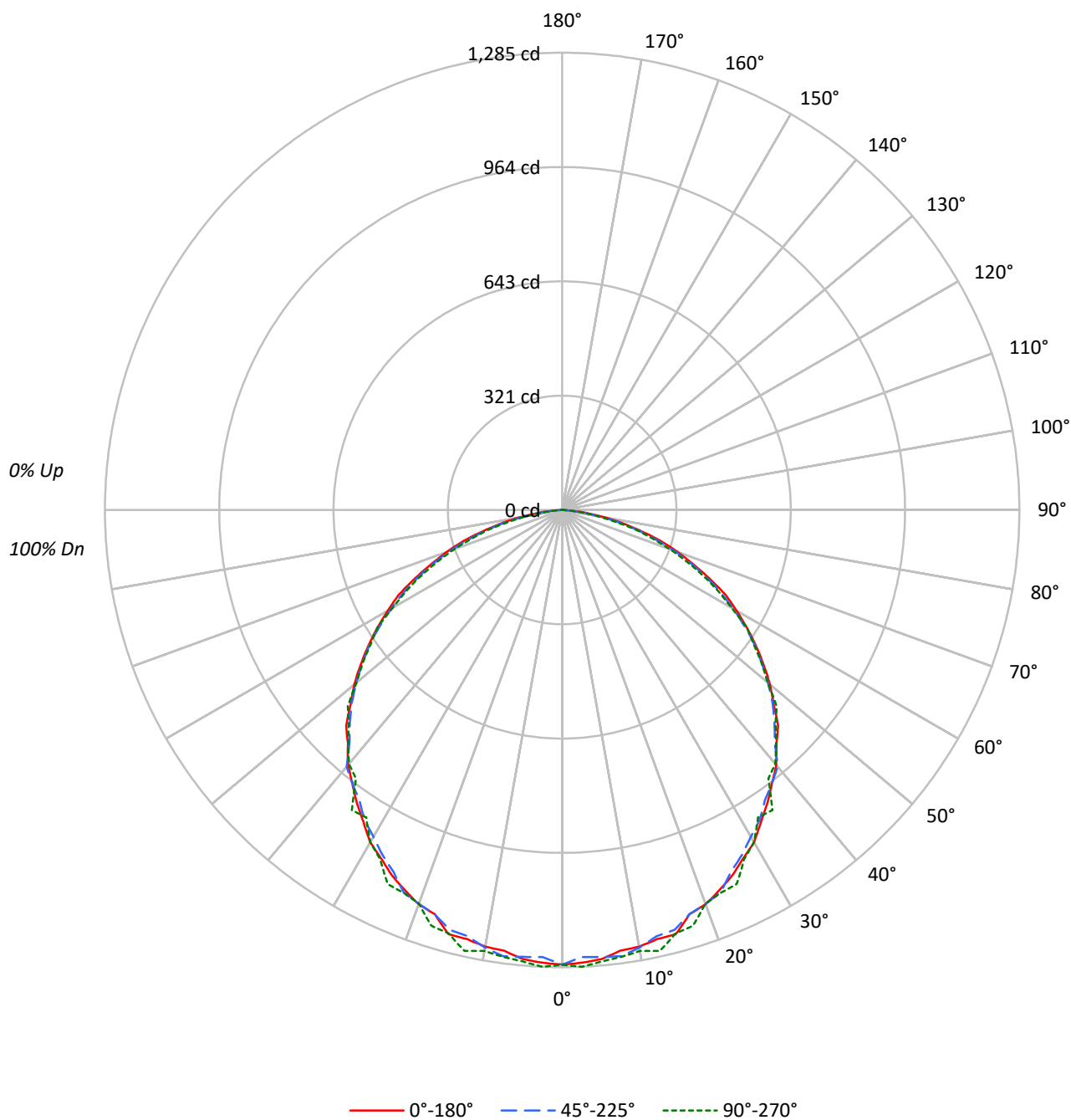
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3584.5 lumens
Efficiency: N/A
Efficacy: 126.2 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): 28.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: >0.10
Total Harmonic Distortion (THDi): <21
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1212263
CATALOG NUMBER: SEC3HSHWMBLK-3000K

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		0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111			106	106	106		100
1	109	104	100	96	106	102	98	95	98	95	92			94	91	89		84
2	99	91	84	79	97	89	83	78	86	80	76			82	78	74		70
3	90	80	72	65	88	78	71	65	75	69	64			73	67	62		59
4	83	71	62	55	80	69	61	55	67	60	54			65	58	53		50
5	76	63	54	48	74	62	54	47	60	52	47			58	51	46		44
6	70	57	48	41	68	56	47	41	54	47	41			52	46	41		38
7	65	52	43	37	63	51	42	36	49	42	36			48	41	36		34
8	61	47	38	33	59	46	38	33	45	38	32			44	37	32		30
9	57	43	35	29	55	43	35	29	41	34	29			40	34	29		27
10	53	40	32	27	52	39	32	27	38	31	26			37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	50937	50937	50937
5°	50708	50451	50960
10°	50436	50565	50950
15°	50943	50415	50852
20°	50027	49981	49938
25°	49820	49354	51034
30°	49652	48828	49606
35°	48940	48376	50128
40°	48696	49029	48477
45°	48402	47567	47804
50°	47266	46807	46745
55°	46207	45908	45616
60°	45073	44228	43805
65°	43138	42138	41242
70°	40225	38990	37509
75°	35551	34072	32778
80°	28675	25024	23578
85°	15506	12121	10155

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 48402 cd/sqm

TEST NUMBER: P1212263
CATALOG NUMBER: SEC3HSHWMBLK-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.7	3.4
10°-20°	345.3	9.6
20°-30°	522.7	14.6
30°-40°	628.6	17.5
40°-50°	655.5	18.3
50°-60°	592.0	16.5
60°-70°	444.1	12.4
70°-80°	233.5	6.5
80°-90°	42.2	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°	988.7	27.6
0°-40°	1617.3	45.1
0°-60°	2864.8	79.9
0°-90°	3584.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3584.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1278	1278	1278	1278	1278	
5°	1267	1264	1261	1282	1273	120
15°	1234	1229	1222	1235	1232	344
25°	1133	1141	1122	1146	1160	522
35°	1006	1006	994	1017	1030	630
45°	858	853	844	850	848	657
55°	665	672	660	660	656	594
65°	457	460	447	453	437	453
75°	231	228	221	210	213	246
85°	34	33	26	23	22	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1277.7	1277.7	1277.7	1277.7	1277.7
2.5°	1273.4	1279.8	1257.5	1275.5	1285.1
5°	1267.1	1263.9	1260.7	1281.9	1273.4
7.5°	1249.1	1266.0	1264.9	1263.9	1267.1
10°	1245.9	1255.4	1249.1	1261.8	1258.6
12.5°	1235.3	1244.8	1226.8	1242.7	1269.2
15°	1234.3	1229.0	1221.5	1235.3	1232.1
17.5°	1190.9	1182.4	1190.9	1207.8	1224.7
20°	1179.2	1185.6	1178.1	1193.0	1177.1
22.5°	1155.9	1161.2	1163.3	1161.2	1164.4
25°	1132.6	1141.1	1122.0	1146.4	1160.2
27.5°	1103.0	1101.9	1093.5	1107.2	1107.2
30°	1078.6	1076.5	1060.7	1075.5	1077.6
32.5°	1039.5	1032.1	1033.1	1032.1	1024.7
35°	1005.6	1005.6	994.0	1017.3	1030.0
37.5°	968.6	970.7	968.6	970.7	951.6
40°	935.7	934.7	942.1	933.6	931.5
42.5°	891.3	895.5	883.9	895.5	889.2
45°	858.5	853.2	843.7	850.0	847.9
47.5°	805.5	801.3	801.3	807.7	817.2
50°	762.1	771.7	754.7	759.0	753.7
52.5°	713.5	713.5	707.1	714.5	706.0
55°	664.8	672.2	660.5	660.5	656.3
57.5°	615.0	620.3	607.6	611.8	616.1
60°	565.3	560.0	554.7	553.6	549.4
62.5°	518.7	514.4	501.7	500.7	494.3
65°	457.3	460.5	446.7	453.1	437.2
67.5°	399.1	398.0	390.6	387.4	379.0
70°	345.1	347.2	334.5	331.3	321.8
72.5°	291.1	287.9	275.2	269.9	264.6
75°	230.8	227.6	221.2	209.6	212.8
77.5°	175.7	171.5	167.2	154.5	151.4
80°	124.9	119.6	109.0	103.7	102.7
82.5°	75.2	72.0	64.6	58.2	55.0
85°	33.9	32.8	26.5	23.3	22.2
87.5°	8.5	7.4	6.4	6.4	5.3
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	25.6	27.3	26.0	27.6	27.9	25.5	27.2	25.9	27.5	27.8
	3H	27.4	28.9	27.8	29.2	29.5	27.2	28.7	27.6	29.0	29.4
	4H	28.0	29.4	28.4	29.7	30.1	27.7	29.1	28.1	29.5	29.9
	6H	28.4	29.7	28.8	30.0	30.4	28.0	29.3	28.5	29.7	30.1
	8H	28.5	29.7	28.9	30.1	30.5	28.1	29.3	28.5	29.7	30.1
	12H	28.5	29.7	28.9	30.0	30.5	28.1	29.3	28.5	29.7	30.1
4H	2H	26.2	27.6	26.6	28.0	28.3	26.2	27.5	26.6	27.9	28.3
	3H	28.2	29.4	28.6	29.8	30.2	28.0	29.2	28.4	29.6	30.0
	4H	28.9	30.0	29.3	30.4	30.8	28.7	29.7	29.1	30.1	30.6
	6H	29.4	30.3	29.9	30.8	31.2	29.1	30.0	29.5	30.4	30.9
	8H	29.5	30.4	30.0	30.8	31.3	29.1	30.0	29.6	30.4	30.9
	12H	29.6	30.3	30.1	30.8	31.3	29.1	29.9	29.6	30.4	30.9
8H	4H	29.2	30.0	29.6	30.5	30.9	28.9	29.8	29.4	30.2	30.7
	6H	29.7	30.4	30.2	30.9	31.4	29.4	30.1	29.9	30.6	31.1
	8H	29.9	30.5	30.4	31.0	31.5	29.5	30.1	30.0	30.6	31.1
	12H	30.0	30.5	30.5	31.0	31.6	29.5	30.1	30.0	30.6	31.2
12H	4H	29.2	29.9	29.7	30.4	30.9	29.0	29.7	29.4	30.2	30.7
	6H	29.8	30.4	30.3	30.8	31.4	29.4	30.1	30.0	30.5	31.1
	8H	29.9	30.5	30.4	31.0	31.5	29.6	30.1	30.1	30.6	31.2

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