

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P990746

Luminaire Tested: **ML3ALSFL9FS1E-TIR4D40FL-TL3RDMB-750LM-5000K**

Issue Date: 5/13/2025

Tested By:

Approved By:



Cooper Lighting Solutions laboratories have been accredited by National Voluntary Laboratory Accreditation Program (NVLAP) that it adheres to the requirements of ISO/IEC 17025:2005 and appropriate IESNA test methods. This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government. Results contained in this report are valid for luminaire sample tested, as supplied by requestor. Information related to the luminaire tested has been supplied by requestor and can affect the validity of the test results. Report shall not be reproduced except in full without approval of Cooper Lighting Solutions Lighting Laboratory. Test performed at address noted above.

Test Information

Test Method: LM-79-08
 Report Number: P990746
 Test Lab: Cooper Lighting Solutions
 Issue Date: 5/13/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: ML3ALSFL9FS1E-TIR4D40FL-TL3RDMB-750LM-5000K
 Description: 3IN ROUND ML FLEX ADJUSTABLE, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK TRIM
 Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
 Ballast/Driver: -

Summary

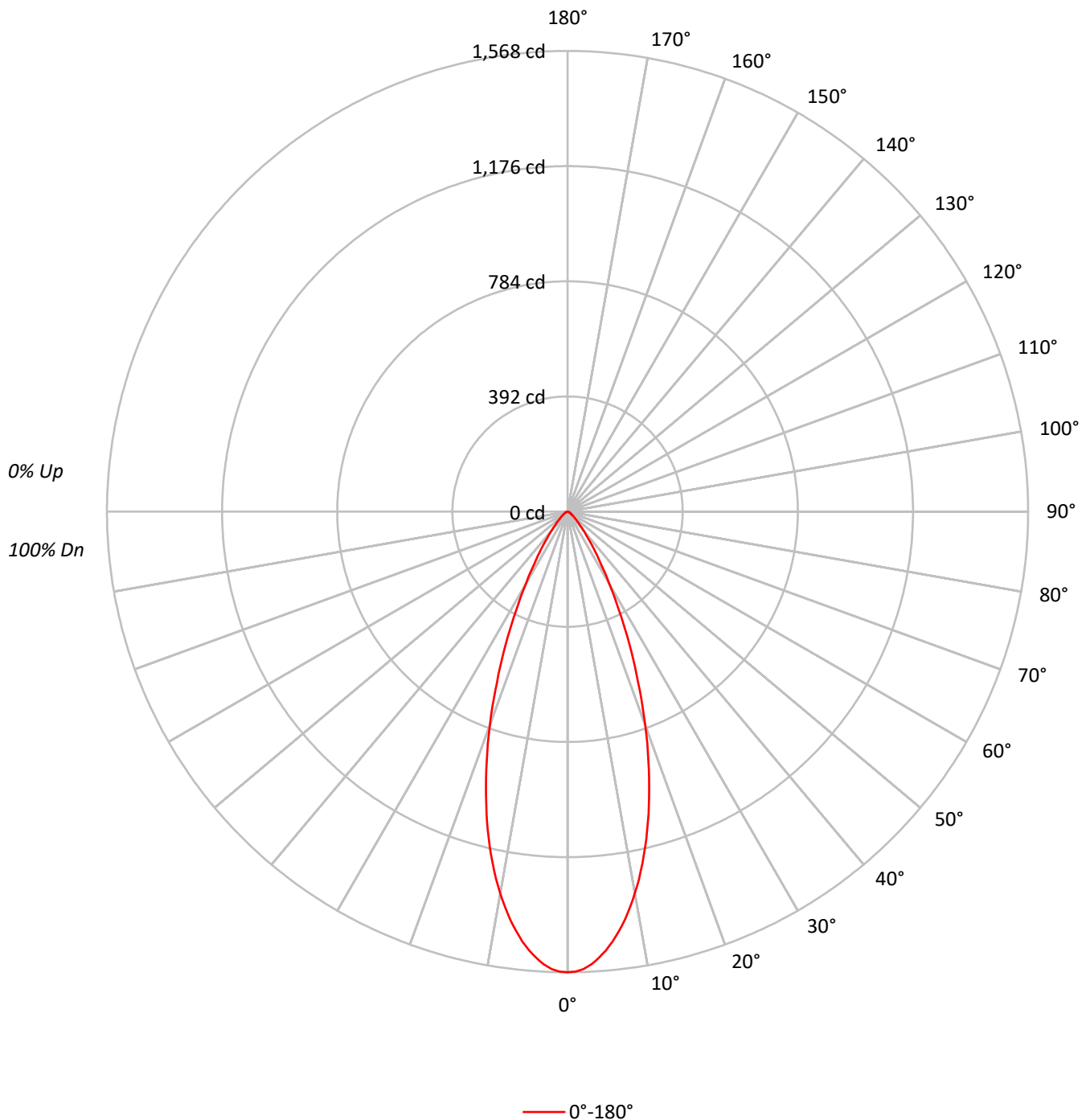
Lumens per Lamp: N/A
 Luminaire Lumens: 826.8 lumens
 Efficiency: N/A
 Efficacy: 85.2 lumens/watt
 Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.65
 Luminous Opening: Circular (Dia: 0.25' x H: 0')
 CIE Type: Direct

Input Watts (W): 9.7
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	GONIO 1 IN0055	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

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Luminous Intensity Polar Plot



TEST NUMBER: P990746

CATALOG NUMBER: ML3ALSFL9FS1E-TIR4D40FL-TL3RDDB-750LM-5000K

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	114	111	109	107	111	109	107	105	105	103	102		101	100	99		98
2	109	104	100	97	106	102	99	96	99	96	94		96	94	92		93
3	104	98	93	89	102	96	92	89	94	90	87		91	88	86		89
4	99	92	87	83	97	91	86	82	89	85	81		87	83	81		85
5	95	87	81	77	93	86	81	77	84	80	76		83	79	76		81
6	90	82	77	73	89	81	76	73	80	75	72		79	75	72		77
7	87	78	73	69	85	77	72	69	76	72	68		75	71	68		74
8	83	74	69	65	82	74	69	65	73	68	65		72	67	64		71
9	80	71	65	62	79	70	65	62	69	65	61		69	64	61		68
10	77	68	62	59	76	67	62	59	66	62	59		66	61	58		65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	343788
5°	330089
10°	293760
15°	241840
20°	180359
25°	120225
30°	72366
35°	42376
40°	24560
45°	14668
50°	9381
55°	6729
60°	5307
65°	4566
70°	3526
75°	1864
80°	0
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	16.6
10°-20°	291.6	35.3
20°-30°	228.6	27.7
30°-40°	103.1	12.5
40°-50°	38.9	4.7
50°-60°	16.4	2.0
60°-70°	8.4	1.0
70°-80°	2.5	0.3
80°-90°	0.0	0.0
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°	657.6	79.5
0°-40°	760.7	92.0
0°-60°	816.0	98.7
0°-90°	826.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	826.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1568	
5°	1500	137
15°	1065	292
25°	497	229
35°	158	103
45°	47	39
55°	18	16
65°	9	8
75°	2	2
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1567.8
1°	1565.6
2°	1557.9
3°	1543.6
4°	1522.7
5°	1499.6
6°	1471.0
7°	1438.0
8°	1402.8
9°	1362.2
10°	1319.3
11°	1274.2
12°	1224.7
13°	1174.2
14°	1120.3
15°	1065.3
16°	1007.1
17°	948.8
18°	890.5
19°	833.3
20°	772.9
22.5°	627.8
25°	496.9
27.5°	379.3
30°	285.8
32.5°	212.2
35°	158.3
37.5°	115.4
40°	85.8
42.5°	63.8
45°	47.3
47.5°	36.3
50°	27.5
52.5°	22.0
55°	17.6
57.5°	14.3
60°	12.1
62.5°	9.9
65°	8.8
67.5°	6.6
70°	5.5
72.5°	3.3
75°	2.2
77.5°	1.1
80°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)