

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: P990792

Luminaire Tested: **ML3ALSFL9FS1E-TIR4D55WFL-TL3RDSL-750LM-2700K**

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: P990792
Test Lab: Cooper Lighting Solutions
Issue Date: 5/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML3ALSFL9FS1E-TIR4D55WFL-TL3RDSL-750LM-2700K
Description: 3IN ROUND ML FLEX ADJUSTABLE, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

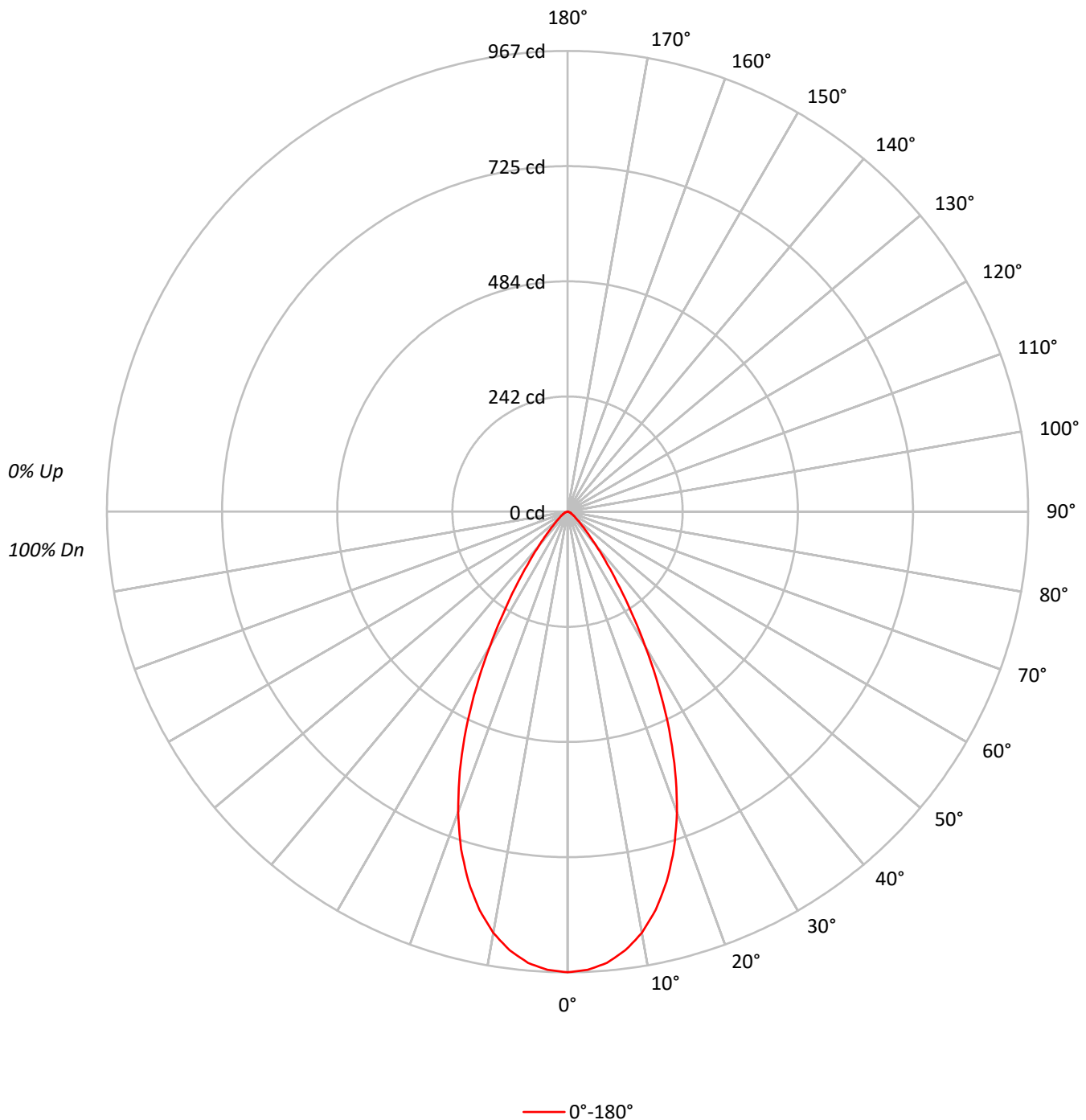
Lumens per Lamp: N/A
Luminaire Lumens: 723.4 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.78
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P990792
CATALOG NUMBER: ML3ALSFL9FS1E-TIR4D55WFL-TL3RDSL-750LM-2700K

Luminous Intensity Polar Plot



TEST NUMBER: P990792

CATALOG NUMBER: ML3ALSFL9FS1E-TIR4D55WFL-TL3RDSL-750LM-2700K

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	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94		
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87		
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81		
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76		
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71		
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	66		
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	63		
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59		
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56		
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	212001
5°	209288
10°	199907
15°	182453
20°	156720
25°	122039
30°	82367
35°	48506
40°	26650
45°	15195
50°	9211
55°	6499
60°	4824
65°	4151
70°	3206
75°	1694
80°	0
85°	0

TEST NUMBER: P990792
 CATALOG NUMBER: ML3ALSFL9FS1E-TIR4D55WFL-TL3RDSL-750LM-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	12.3
10°-20°	222.6	30.8
20°-30°	227.6	31.5
30°-40°	117.6	16.3
40°-50°	40.4	5.6
50°-60°	15.8	2.2
60°-70°	7.9	1.1
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°	539.2	74.5
0°-40°	656.8	90.8
0°-60°	713.0	98.6
0°-90°	723.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	723.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	967	
5°	951	89
15°	804	223
25°	504	228
35°	181	118
45°	49	40
55°	17	16
65°	8	8
75°	2	2
85°	0	0
90°	0	

TEST NUMBER: P990792
CATALOG NUMBER: ML3ALSFL9FS1E-TIR4D55WFL-TL3RDSL-750LM-2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	966.8
2.5°	962.8
5°	950.8
7.5°	928.8
10°	897.8
12.5°	855.7
15°	803.7
17.5°	742.6
20°	671.6
22.5°	590.5
25°	504.4
27.5°	414.4
30°	325.3
32.5°	246.2
35°	181.2
37.5°	130.1
40°	93.1
42.5°	67.1
45°	49.0
47.5°	36.0
50°	27.0
52.5°	21.0
55°	17.0
57.5°	14.0
60°	11.0
62.5°	9.0
65°	8.0
67.5°	7.0
70°	5.0
72.5°	4.0
75°	2.0
77.5°	1.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)