

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: P990643

Luminaire Tested: **ML2ALSFL9FS1E-TIR1D55WFL-TL2RDSL-550LM-3000K**

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: P990643
 Test Lab: Cooper Lighting Solutions
 Issue Date: 5/13/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: ML2ALSFL9FS1E-TIR1D55WFL-TL2RDSL-550LM-3000K
 Description: 2IN ROUND ML FLEX ADJUSTABLE, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
 Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
 Ballast/Driver: -

Summary

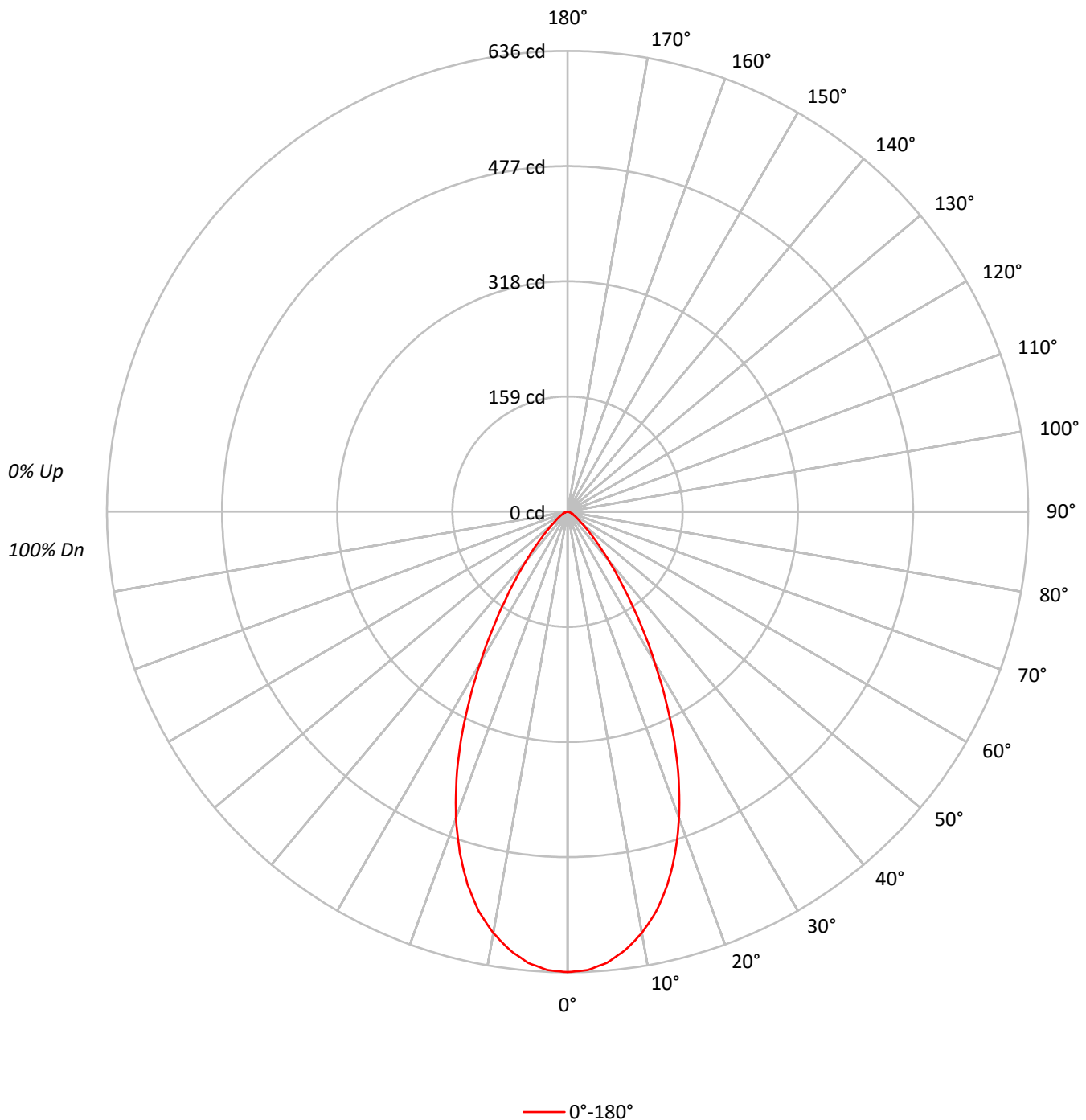
Lumens per Lamp: N/A
 Luminaire Lumens: 526.1 lumens
 Efficiency: N/A
 Efficacy: 69.2 lumens/watt
 Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.81
 Luminous Opening: Circular (Dia: 0.17' x H: 0')
 CIE Type: Direct

Input Watts (W): 7.6
 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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	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		102	102	102	100
1	113	110	108	106	111	108	106	104	104	102	101		100	99	98		97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92		94	92	90		92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84		89	85	83		86	84	81	80
4	96	89	83	79	95	88	82	78	85	81	77		83	79	76		81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	72		78	74	71		77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	66		74	69	66		73	69	66	64
7	83	73	67	63	81	72	67	62	71	66	62		70	65	62		69	65	61	60
8	78	69	63	59	77	68	62	58	67	62	58		66	61	58		65	61	58	56
9	75	65	59	55	74	64	59	55	64	58	55		63	58	54		62	57	54	53
10	71	62	56	52	70	61	55	52	60	55	51		59	55	51		59	54	51	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	313641
5°	309639
10°	295935
15°	272299
20°	236427
25°	189827
30°	137242
35°	91490
40°	57321
45°	34329
50°	20878
55°	14451
60°	10361
65°	8522
70°	6059
75°	4003
80°	0
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	11.1
10°-20°	147.7	28.1
20°-30°	157.8	30.0
30°-40°	96.7	18.4
40°-50°	40.2	7.6
50°-60°	15.6	3.0
60°-70°	7.2	1.4
70°-80°	2.2	0.4
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°	364.1	69.2
0°-40°	460.9	87.6
0°-60°	516.7	98.2
0°-90°	526.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	526.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	636	
5°	625	59
15°	533	148
25°	349	158
35°	152	97
45°	49	40
55°	17	16
65°	7	7
75°	2	2
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	635.7
2.5°	633.6
5°	625.2
7.5°	610.6
10°	590.7
12.5°	565.5
15°	533.1
17.5°	494.3
20°	450.3
22.5°	401.1
25°	348.7
27.5°	293.2
30°	240.9
32.5°	193.7
35°	151.9
37.5°	117.3
40°	89.0
42.5°	67.0
45°	49.2
47.5°	36.7
50°	27.2
52.5°	20.9
55°	16.8
57.5°	13.6
60°	10.5
62.5°	8.4
65°	7.3
67.5°	6.3
70°	4.2
72.5°	3.1
75°	2.1
77.5°	1.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)