

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: P990641

Luminaire Tested: **ML2ALSFL9FS1E-TIR1D55WFL-TL2RDMW-550LM-5000K**

Issue Date: 5/13/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
Report Number: P990641
Test Lab: Cooper Lighting Solutions
Issue Date: 5/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML2ALSFL9FS1E-TIR1D55WFL-TL2RDMW-550LM-5000K
Description: 2IN ROUND ML FLEX ADJUSTABLE, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

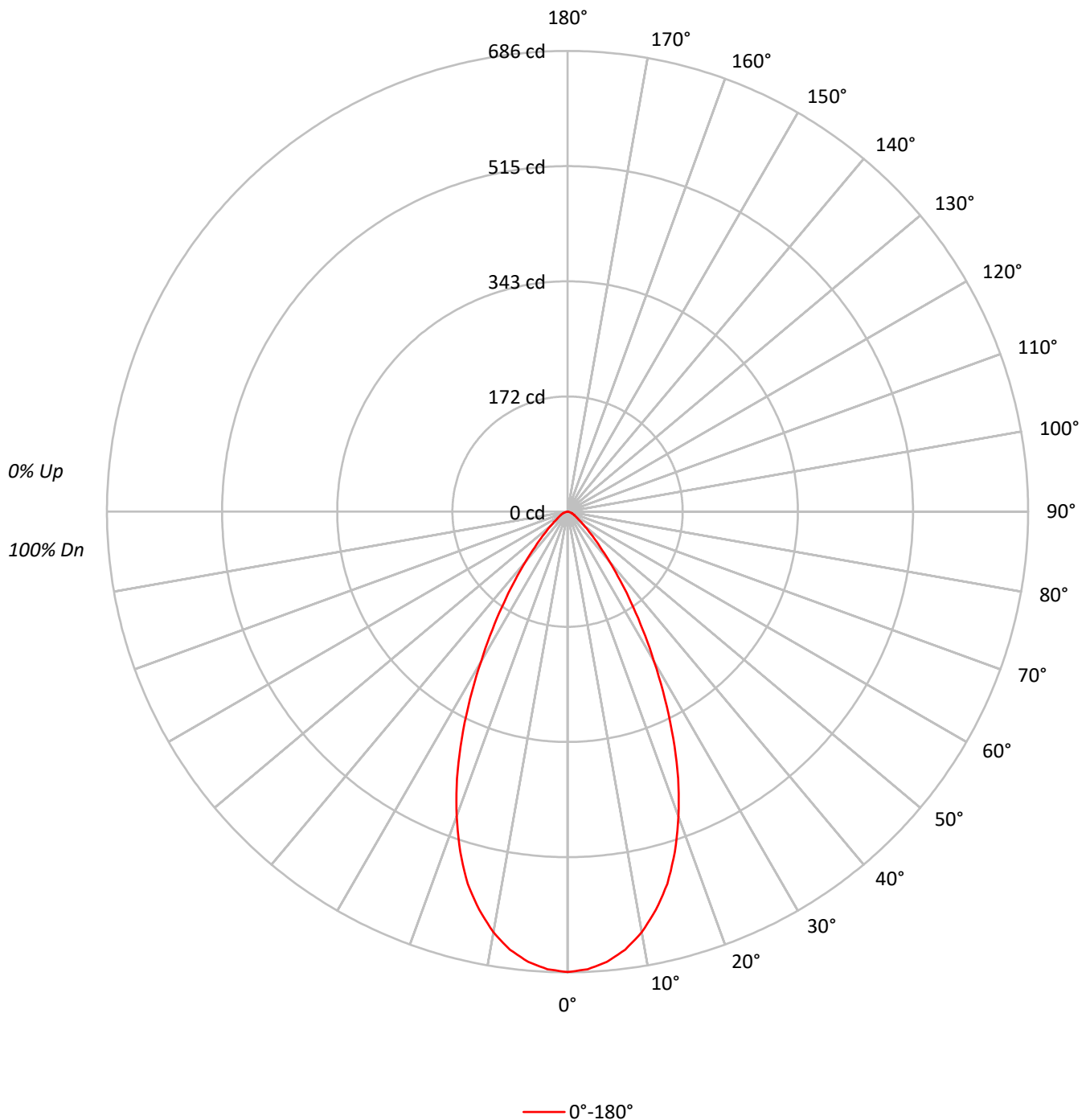
Lumens per Lamp: N/A
Luminaire Lumens: 573.4 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.81
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	338212
5°	333263
10°	318680
15°	293190
20°	253649
25°	202892
30°	146813
35°	99079
40°	62989
45°	38515
50°	24716
55°	16860
60°	13617
65°	12141
70°	9954
75°	6672
80°	3410
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	11.0
10°-20°	158.8	27.7
20°-30°	169.0	29.5
30°-40°	104.5	18.2
40°-50°	44.6	7.8
50°-60°	18.7	3.3
60°-70°	10.0	1.7
70°-80°	4.1	0.7
80°-90°	0.5	0.1
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°	390.9	68.2
0°-40°	495.5	86.4
0°-60°	558.8	97.5
0°-90°	573.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	573.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	686	
5°	673	63
15°	574	159
25°	373	169
35°	164	105
45°	55	45
55°	20	19
65°	10	10
75°	4	4
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	685.5
2.5°	682.1
5°	672.9
7.5°	657.9
10°	636.1
12.5°	607.3
15°	574.0
17.5°	531.4
20°	483.1
22.5°	430.2
25°	372.7
27.5°	314.0
30°	257.7
32.5°	208.2
35°	164.5
37.5°	127.7
40°	97.8
42.5°	72.5
45°	55.2
47.5°	41.4
50°	32.2
52.5°	25.3
55°	19.6
57.5°	16.1
60°	13.8
62.5°	11.5
65°	10.4
67.5°	8.1
70°	6.9
72.5°	5.8
75°	3.5
77.5°	2.3
80°	1.2
82.5°	1.2
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)