

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: P990692

Luminaire Tested: **ML2ALSFLD2W1E-TIR1D55WFL-TL2RDMW-400LM-2700K**

Issue Date: 5/13/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
Report Number: P990692
Test Lab: Cooper Lighting Solutions
Issue Date: 5/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML2ALSFLD2W1E-TIR1D55WFL-TL2RDMW-400LM-2700K
Description: 2IN ROUND ML FLEX ADJUSTABLE, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

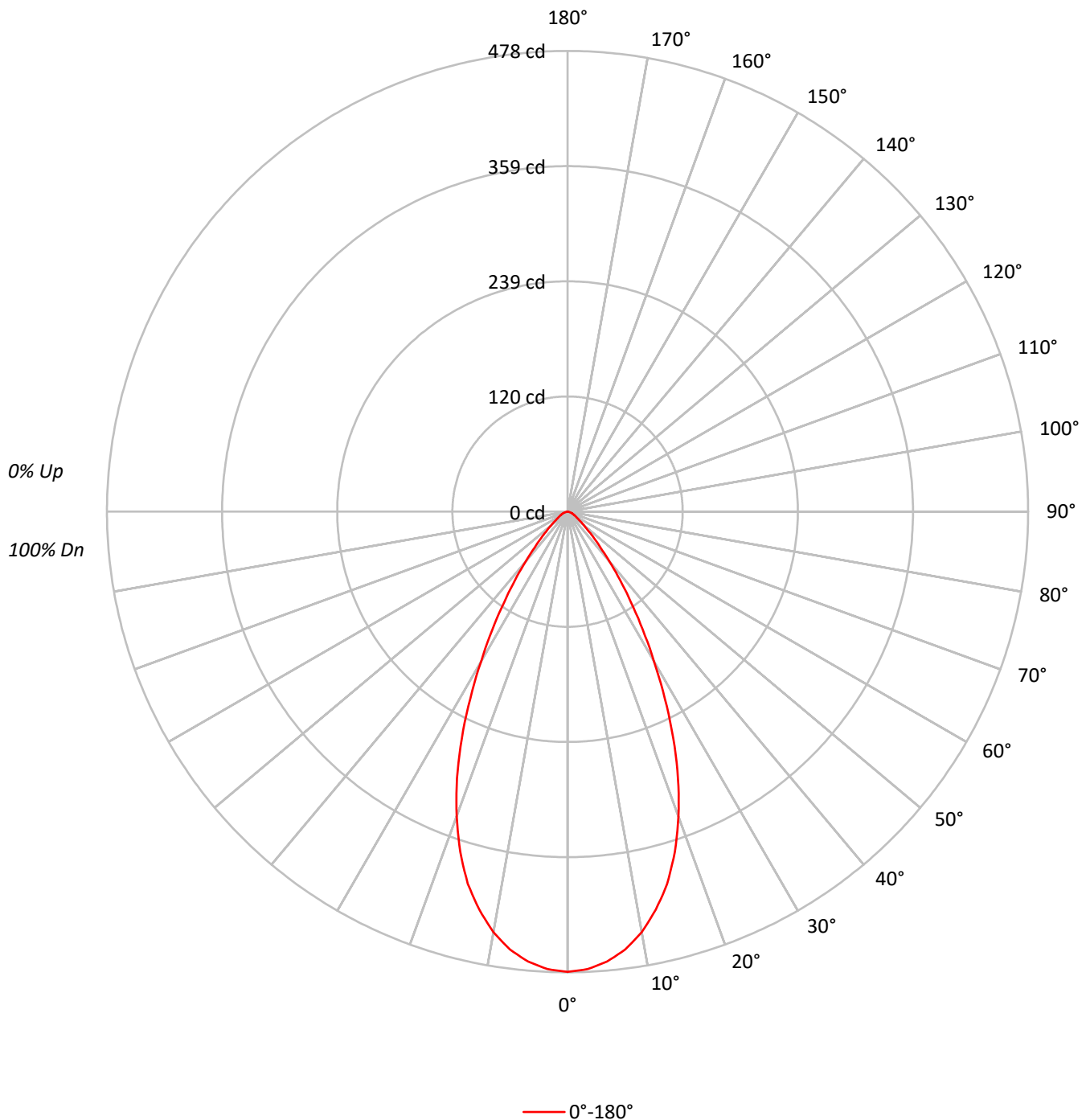
Lumens per Lamp: N/A
Luminaire Lumens: 399.3 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.81
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 6.1
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	67	85	76	71	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°	235589
5°	232130
10°	221989
15°	204211
20°	176677
25°	141322
30°	102262
35°	69024
40°	43861
45°	26863
50°	17193
55°	11698
60°	9473
65°	8406
70°	6924
75°	4575
80°	2273
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.9	11.0
10°-20°	110.6	27.7
20°-30°	117.7	29.5
30°-40°	72.8	18.2
40°-50°	31.1	7.8
50°-60°	13.0	3.3
60°-70°	6.9	1.7
70°-80°	2.8	0.7
80°-90°	0.3	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°	272.3	68.2
0°-40°	345.1	86.4
0°-60°	389.2	97.5
0°-90°	399.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	399.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	478	
5°	469	44
15°	400	111
25°	260	118
35°	115	73
45°	38	31
55°	14	13
65°	7	7
75°	2	3
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	477.5
2.5°	475.1
5°	468.7
7.5°	458.3
10°	443.1
12.5°	423.0
15°	399.8
17.5°	370.2
20°	336.5
22.5°	299.7
25°	259.6
27.5°	218.7
30°	179.5
32.5°	145.0
35°	114.6
37.5°	88.9
40°	68.1
42.5°	50.5
45°	38.5
47.5°	28.8
50°	22.4
52.5°	17.6
55°	13.6
57.5°	11.2
60°	9.6
62.5°	8.0
65°	7.2
67.5°	5.6
70°	4.8
72.5°	4.0
75°	2.4
77.5°	1.6
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)