

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: P990817

Luminaire Tested: **ML3ALSFLD2W1E-TIR4D25NFL-TL3RDSL-600LM-3000K**

Issue Date: 5/13/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P990817
 Test Lab: Cooper Lighting Solutions
 Issue Date: 5/13/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: ML3ALSFLD2W1E-TIR4D25NFL-TL3RDSL-600LM-3000K
 Description: 3IN ROUND ML FLEX ADJUSTABLE, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
 Light Source: (1) D2W LED 90CRI / 3000K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 625.8 lumens
 Efficiency: N/A
 Efficacy: 66.6 lumens/watt
 Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.56
 Luminous Opening: Circular (Dia: 0.25' x H: 0')
 CIE Type: Direct

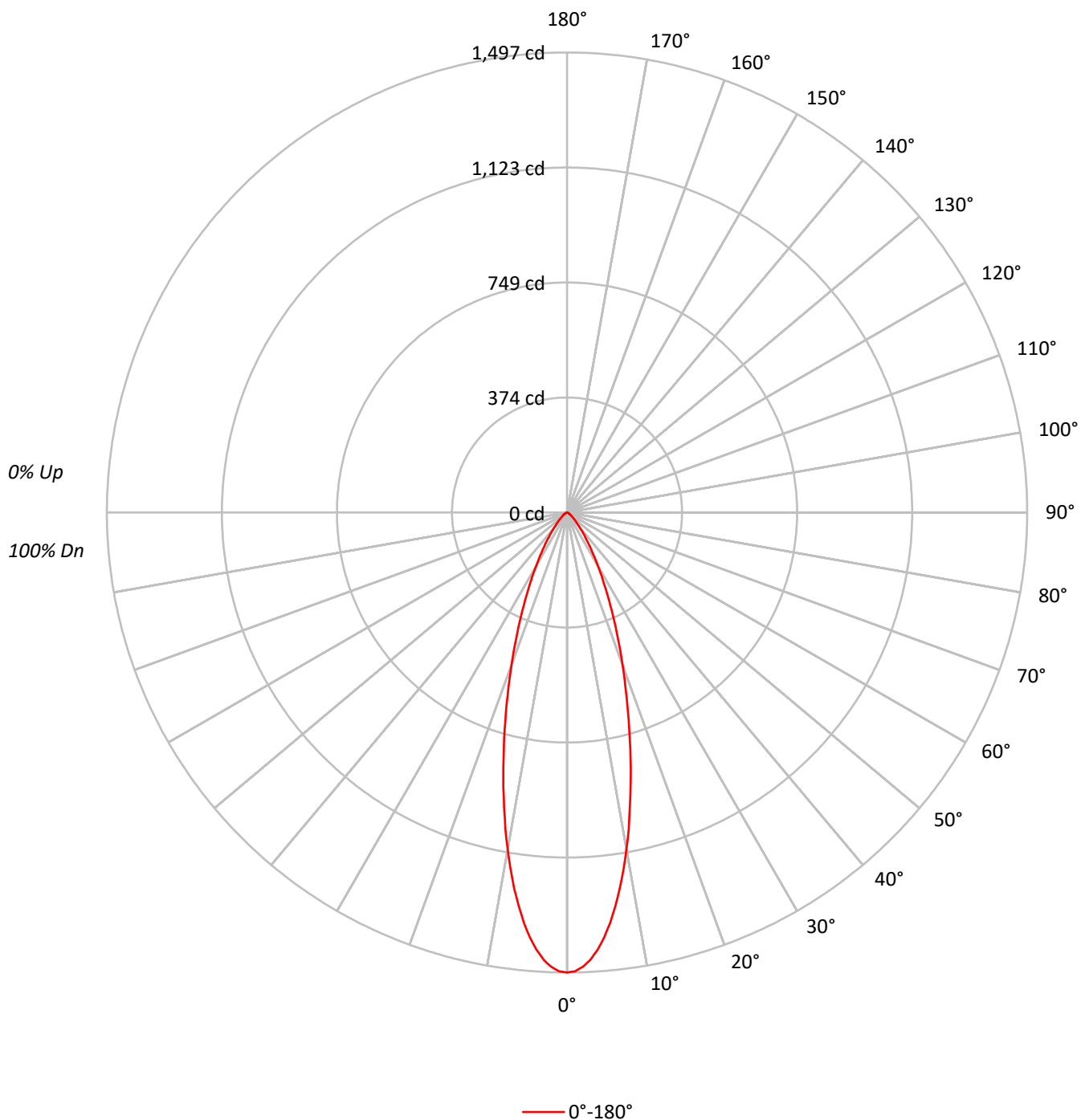
Input Watts (W): 9.4
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

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: P990817

CATALOG NUMBER: ML3ALSFLD2W1E-TIR4D25NFL-TL3RDSL-600LM-3000K

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	114	111	109	107	111	109	107	105	105	103	102		101	100	99		98
2	109	104	101	97	107	103	99	96	99	97	94		96	94	92		94
3	104	98	93	90	102	97	92	89	94	91	88		92	89	86		90
4	99	93	87	84	98	91	87	83	89	85	82		87	84	81		86
5	95	88	82	78	94	87	82	78	85	81	77		83	80	77		82
6	91	83	78	74	90	82	77	74	81	76	73		80	76	73		78
7	87	79	74	70	86	78	73	70	77	73	69		76	72	69		75
8	84	75	70	66	83	75	70	66	74	69	66		73	69	66		72
9	81	72	67	63	80	72	67	63	71	66	63		70	66	63		69
10	78	69	64	60	77	69	64	60	68	63	60		67	63	60		66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	328263
5°	305392
10°	247691
15°	180432
20°	123071
25°	80497
30°	50742
35°	31374
40°	19207
45°	12001
50°	7744
55°	5429
60°	4166
65°	2958
70°	2436
75°	1610
80°	1137
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	19.7
10°-20°	218.8	35.0
20°-30°	155.0	24.8
30°-40°	75.9	12.1
40°-50°	31.1	5.0
50°-60°	13.3	2.1
60°-70°	6.1	1.0
70°-80°	2.1	0.3
80°-90°	0.1	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°	497.3	79.5
0°-40°	573.2	91.6
0°-60°	617.6	98.7
0°-90°	625.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	625.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1497	
5°	1387	123
15°	795	219
25°	333	155
35°	117	76
45°	39	31
55°	14	13
65°	6	6
75°	2	2
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1497.0
1°	1493.2
2°	1479.1
3°	1457.3
4°	1426.1
5°	1387.4
6°	1342.0
7°	1290.0
8°	1235.2
9°	1173.8
10°	1112.4
11°	1050.0
12°	982.9
13°	919.6
14°	856.2
15°	794.8
16°	735.3
17°	679.5
18°	624.7
19°	574.6
20°	527.4
22.5°	421.5
25°	332.7
27.5°	259.9
30°	200.4
32.5°	154.0
35°	117.2
37.5°	88.8
40°	67.1
42.5°	50.1
45°	38.7
47.5°	29.3
50°	22.7
52.5°	18.0
55°	14.2
57.5°	11.3
60°	9.5
62.5°	7.6
65°	5.7
67.5°	4.7
70°	3.8
72.5°	2.8
75°	1.9
77.5°	0.9
80°	0.9

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)