

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: P990674

Luminaire Tested: **ML2ALSFLD2W1E-TIR1D40FL-TL2RDMB-400LM-2700K**

Issue Date: 5/13/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P990674
 Test Lab: Cooper Lighting Solutions
 Issue Date: 5/13/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: ML2ALSFLD2W1E-TIR1D40FL-TL2RDMB-400LM-2700K
 Description: 2IN ROUND ML FLEX ADJUSTABLE, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK TRIM
 Light Source: (1) D2W LED 90CRI / 2700K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 401.2 lumens
 Efficiency: N/A
 Efficacy: 65.8 lumens/watt
 Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.69
 Luminous Opening: Circular (Dia: 0.17' x H: 0')
 CIE Type: Direct

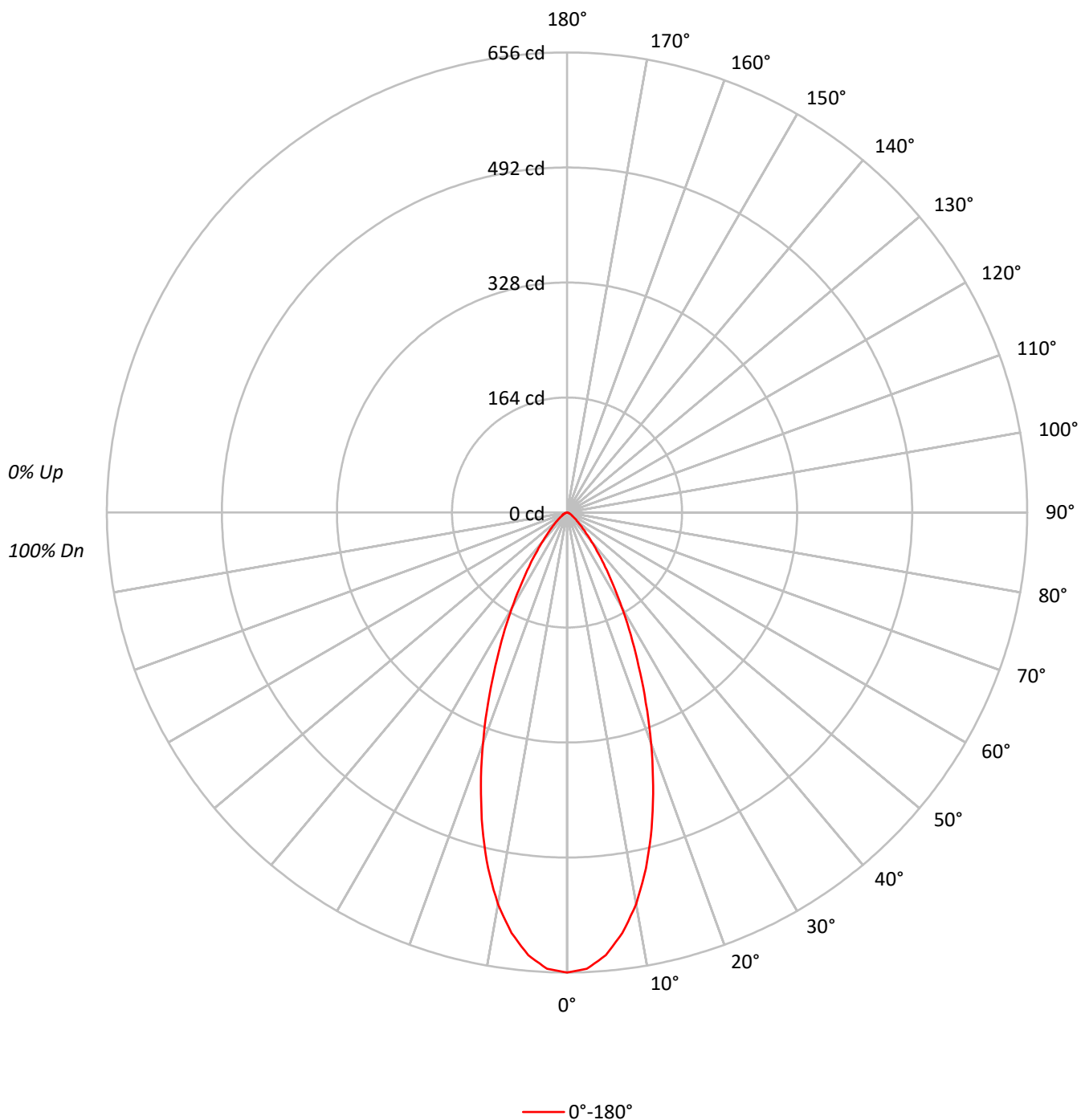
Input Watts (W): 6.1
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

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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CATALOG NUMBER: ML2ALSFLD2W1E-TIR1D40FL-TL2RDMB-400LM-2700K

Luminous Intensity Polar Plot



TEST NUMBER: P990674

CATALOG NUMBER: ML2ALSFLD2W1E-TIR1D40FL-TL2RDDB-400LM-2700K

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	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	95	98	95	93		95	93	91		93
3	103	96	92	88	101	95	91	87	92	89	86		90	87	84		88
4	98	90	85	81	96	89	84	80	87	83	79		85	81	78		83
5	93	85	79	75	91	84	79	75	82	78	74		81	77	73		79
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75
7	85	76	70	66	83	75	70	66	74	69	65		73	68	65		71
8	81	72	66	62	80	71	66	62	70	65	62		69	65	61		68
9	77	68	62	59	76	68	62	59	67	62	58		66	61	58		65
10	74	65	59	56	73	64	59	56	64	59	55		63	58	55		62

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	323657
5°	313799
10°	284062
15°	238025
20°	184028
25°	131414
30°	89102
35°	56978
40°	35101
45°	21839
50°	14123
55°	9634
60°	7105
65°	6538
70°	4616
75°	3050
80°	0
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	14.5
10°-20°	128.1	31.9
20°-30°	111.3	27.8
30°-40°	60.7	15.1
40°-50°	25.3	6.3
50°-60°	10.5	2.6
60°-70°	5.2	1.3
70°-80°	1.7	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°	297.8	74.2
0°-40°	358.5	89.3
0°-60°	394.3	98.3
0°-90°	401.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	401.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	656	
5°	634	58
15°	466	128
25°	241	111
35°	95	61
45°	31	25
55°	11	10
65°	6	5
75°	2	2
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	656.0
2.5°	651.2
5°	633.6
7.5°	604.7
10°	567.0
12.5°	519.7
15°	466.0
17.5°	408.2
20°	350.5
22.5°	293.5
25°	241.4
27.5°	196.5
30°	156.4
32.5°	121.9
35°	94.6
37.5°	72.2
40°	54.5
42.5°	40.9
45°	31.3
47.5°	24.1
50°	18.4
52.5°	14.4
55°	11.2
57.5°	8.8
60°	7.2
62.5°	6.4
65°	5.6
67.5°	4.0
70°	3.2
72.5°	2.4
75°	1.6
77.5°	0.8
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)