

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: P990664

Luminaire Tested: **ML2ALSFLD2W1E-TIR1D25NFL-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: P990664
 Test Lab: Cooper Lighting Solutions
 Issue Date: 5/13/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: ML2ALSFLD2W1E-TIR1D25NFL-TL2RDMW-400LM-2700K
 Description: 2IN ROUND ML FLEX ADJUSTABLE, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
 Light Source: (1) D2W LED 90CRI / 2700K CCT
 Ballast/Driver: -

Summary

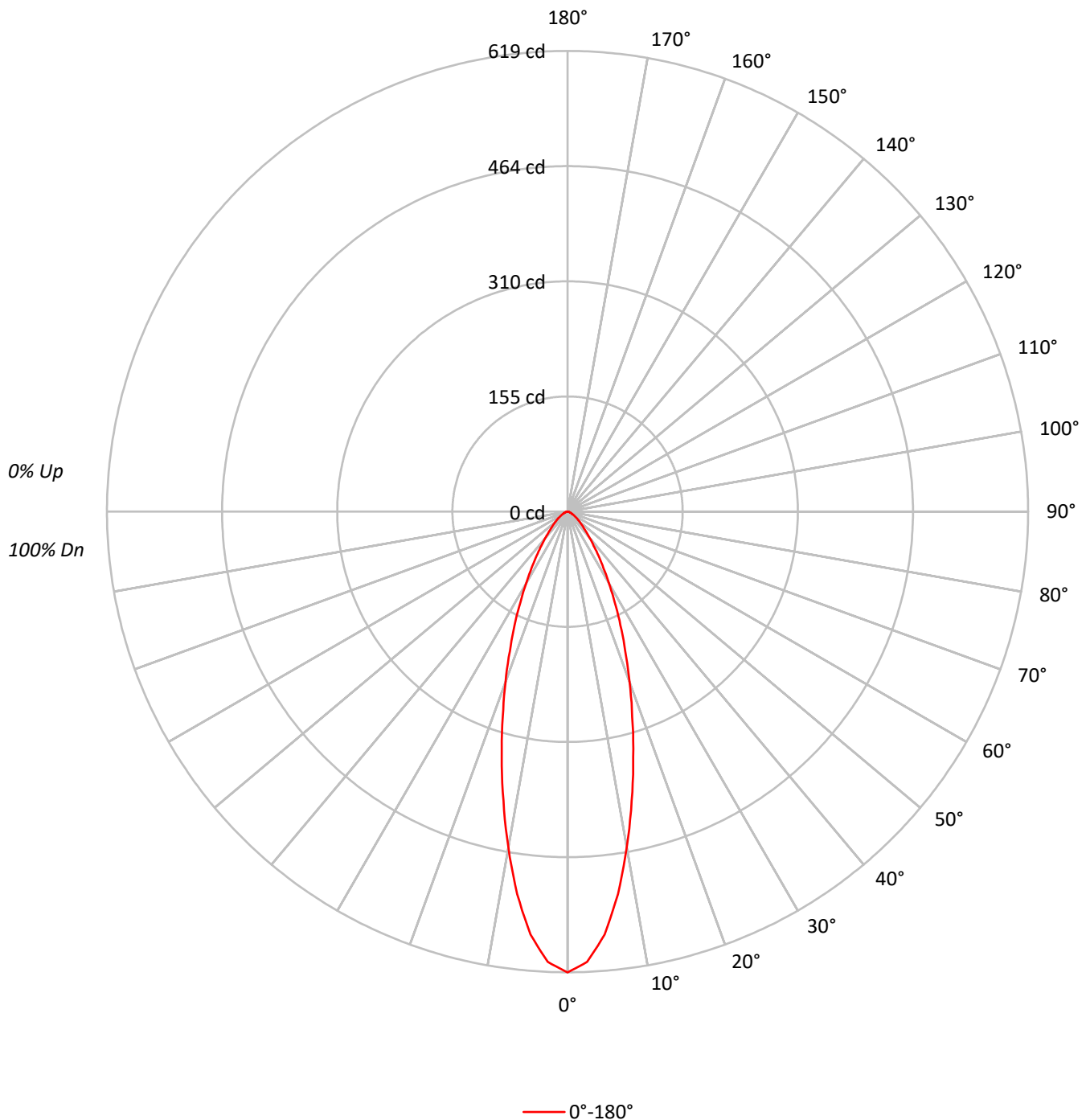
Lumens per Lamp: N/A
 Luminaire Lumens: 316.3 lumens
 Efficiency: N/A
 Efficacy: 51.9 lumens/watt
 Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.6
 Luminous Opening: Circular (Dia: 0.17' x H: 0')
 CIE Type: Direct

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	101		100	99	98		97
2	107	102	98	95	105	101	97	94	97	94	92		94	92	90		92
3	102	95	90	86	100	94	89	85	91	87	84		89	86	83		87
4	97	89	84	79	95	88	83	79	86	81	78		84	80	77		82
5	92	84	78	73	90	83	77	73	81	76	72		79	75	72		78
6	88	79	73	69	86	78	72	68	76	72	68		75	71	67		74
7	84	74	68	64	82	74	68	64	72	67	64		71	67	63		70
8	80	71	65	61	79	70	64	60	69	64	60		68	63	60		67
9	76	67	61	57	75	67	61	57	66	61	57		65	60	57		64
10	73	64	58	54	72	63	58	54	63	58	54		62	57	54		61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	305501
5°	282499
10°	229554
15°	174331
20°	127848
25°	91565
30°	63465
35°	43426
40°	29949
45°	21211
50°	15965
55°	12387
60°	9473
65°	7472
70°	5770
75°	4575
80°	4546
85°	4529

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	16.1
10°-20°	94.6	29.9
20°-30°	77.5	24.5
30°-40°	46.1	14.6
40°-50°	24.4	7.7
50°-60°	13.2	4.2
60°-70°	6.2	2.0
70°-80°	2.8	0.9
80°-90°	0.7	0.2
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°	223.0	70.5
0°-40°	269.1	85.1
0°-60°	306.6	96.9
0°-90°	316.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	316.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	619	
5°	570	51
15°	341	95
25°	168	78
35°	72	46
45°	30	24
55°	14	13
65°	6	6
75°	2	3
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	619.2
2.5°	605.6
5°	570.4
7.5°	518.3
10°	458.2
12.5°	398.1
15°	341.3
17.5°	289.2
20°	243.5
22.5°	202.7
25°	168.2
27.5°	137.0
30°	111.4
32.5°	89.7
35°	72.1
37.5°	57.7
40°	46.5
42.5°	37.7
45°	30.4
47.5°	25.6
50°	20.8
52.5°	17.6
55°	14.4
57.5°	12.0
60°	9.6
62.5°	7.2
65°	6.4
67.5°	4.8
70°	4.0
72.5°	3.2
75°	2.4
77.5°	2.4
80°	1.6
82.5°	0.8
85°	0.8
87.5°	0.0
90°	0.0

(END OF REPORT)