

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: P990567

Luminaire Tested: **ML2ALSFL9FS1E-TIR1D25NFL-TL2RDMW-550LM-2700K**

Issue Date: 5/13/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P990567
 Test Lab: Cooper Lighting Solutions
 Issue Date: 5/13/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: ML2ALSFL9FS1E-TIR1D25NFL-TL2RDMW-550LM-2700K
 Description: 2IN ROUND ML FLEX ADJUSTABLE, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
 Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
 Ballast/Driver: -

Summary

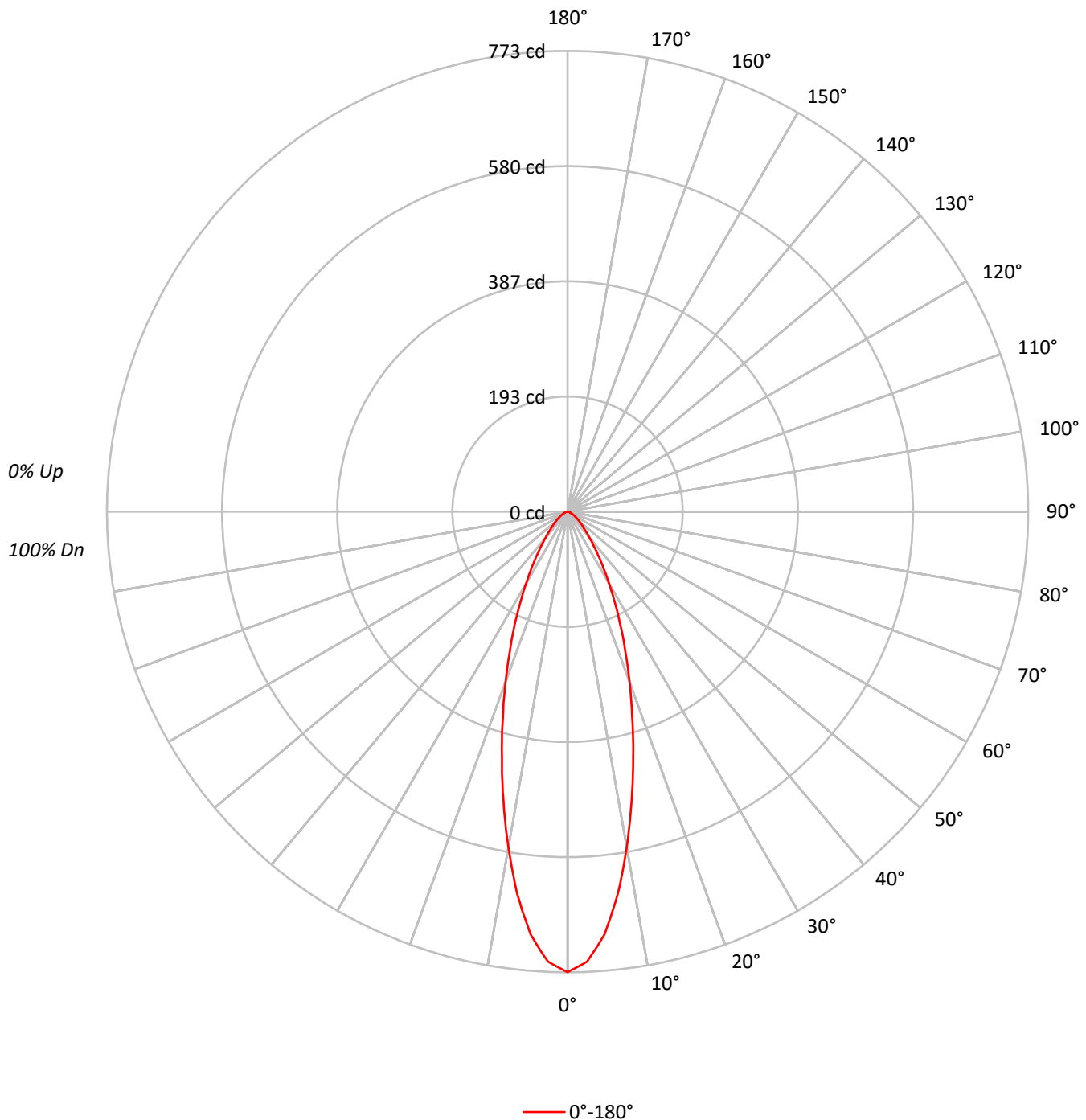
Lumens per Lamp: N/A
 Luminaire Lumens: 394.8 lumens
 Efficiency: N/A
 Efficacy: 52.0 lumens/watt
 Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.6
 Luminous Opening: Circular (Dia: 0.17' x H: 0')
 CIE Type: Direct

Input Watts (W): 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	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	66	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°	381234
5°	352529
10°	286466
15°	217543
20°	159561
25°	114266
30°	79189
35°	54207
40°	37356
45°	26514
50°	19957
55°	15483
60°	11841
65°	9339
70°	7213
75°	5719
80°	5683
85°	5661

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	16.1
10°-20°	118.1	29.9
20°-30°	96.7	24.5
30°-40°	57.5	14.6
40°-50°	30.5	7.7
50°-60°	16.5	4.2
60°-70°	7.8	2.0
70°-80°	3.6	0.9
80°-90°	0.8	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°	278.2	70.5
0°-40°	335.8	85.0
0°-60°	382.7	96.9
0°-90°	394.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	394.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	773	
5°	712	63
15°	426	118
25°	210	97
35°	90	58
45°	38	30
55°	18	16
65°	8	8
75°	3	4
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	772.7
2.5°	755.8
5°	711.8
7.5°	646.8
10°	571.8
12.5°	496.8
15°	425.9
17.5°	360.9
20°	303.9
22.5°	252.9
25°	209.9
27.5°	170.9
30°	139.0
32.5°	112.0
35°	90.0
37.5°	72.0
40°	58.0
42.5°	47.0
45°	38.0
47.5°	32.0
50°	26.0
52.5°	22.0
55°	18.0
57.5°	15.0
60°	12.0
62.5°	9.0
65°	8.0
67.5°	6.0
70°	5.0
72.5°	4.0
75°	3.0
77.5°	3.0
80°	2.0
82.5°	1.0
85°	1.0
87.5°	0.0
90°	0.0

(END OF REPORT)