

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: P990636

Luminaire Tested: **ML2ALSFL9FS1E-TIR1D55WFL-TL2RDMB-550LM-5000K**

Issue Date: 5/13/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P990636
 Test Lab: Cooper Lighting Solutions
 Issue Date: 5/13/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: ML2ALSFL9FS1E-TIR1D55WFL-TL2RDMB-550LM-5000K
 Description: 2IN ROUND ML FLEX ADJUSTABLE, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM
 Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 564.0 lumens
 Efficiency: N/A
 Efficacy: 74.2 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

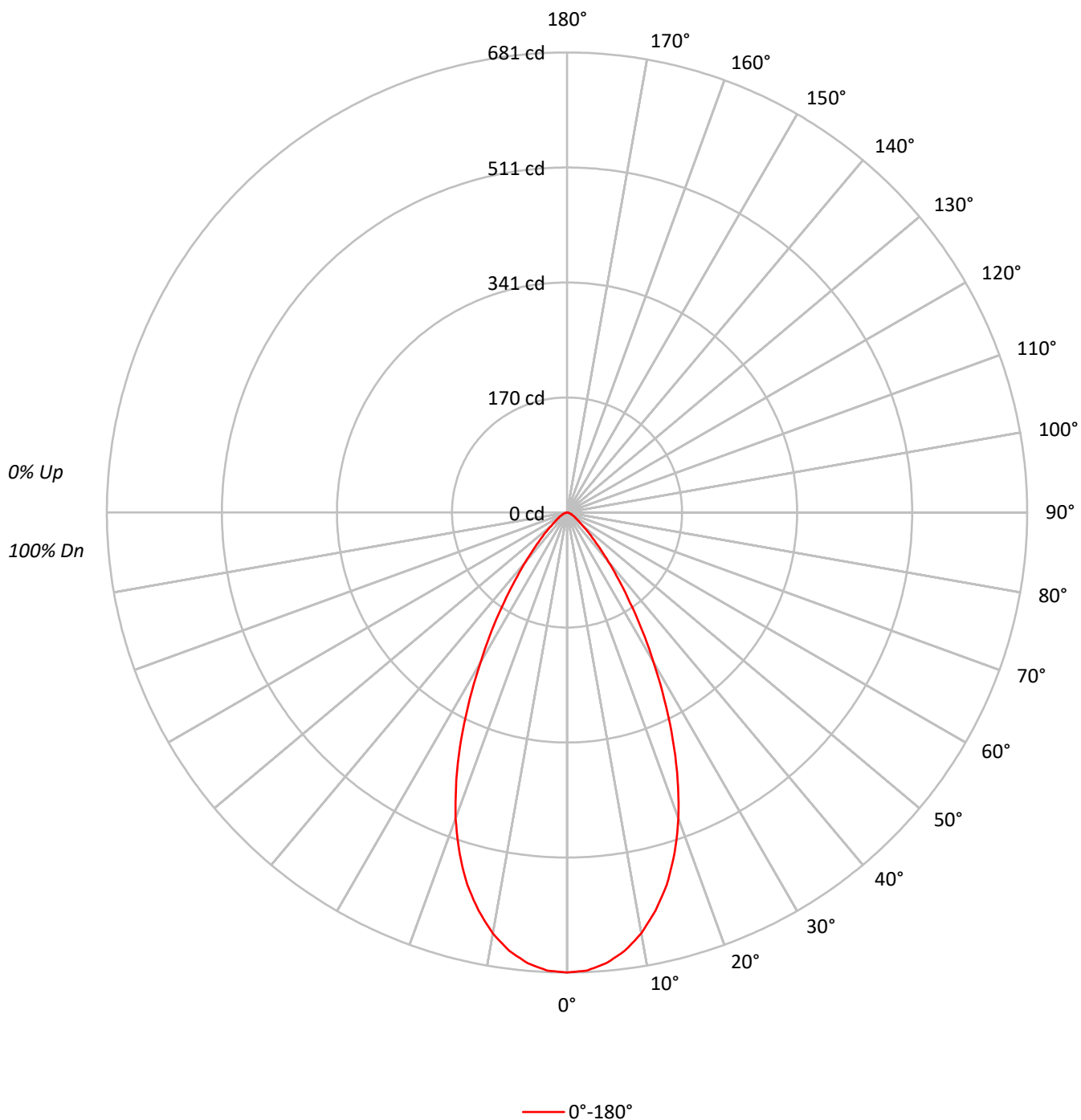
Input Watts (W): 7.6
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

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	93	97	94	91		94	92	89		92
3	102	95	90	86	100	94	89	85	91	87	84		89	85	82		86
4	96	89	83	78	95	87	82	78	85	81	77		83	79	76		81
5	91	83	77	72	90	82	76	72	80	75	71		78	74	71		77
6	87	78	71	67	85	77	71	67	75	70	66		74	69	66		72
7	82	73	67	62	81	72	66	62	71	66	62		70	65	62		69
8	78	69	63	58	77	68	62	58	67	62	58		66	61	58		65
9	75	65	59	55	74	64	59	55	63	58	54		62	58	54		62
10	71	61	55	52	70	61	55	51	60	55	51		59	55	51		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	335991
5°	331579
10°	316927
15°	291402
20°	253071
25°	201640
30°	145503
35°	97694
40°	61508
45°	37748
50°	22950
55°	15827
60°	12532
65°	9456
70°	8367
75°	4384
80°	0
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	11.1
10°-20°	158.0	28.0
20°-30°	168.0	29.8
30°-40°	103.3	18.3
40°-50°	43.5	7.7
50°-60°	17.3	3.1
60°-70°	8.6	1.5
70°-80°	2.6	0.5
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°	388.8	68.9
0°-40°	492.1	87.2
0°-60°	552.9	98.0
0°-90°	564.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	564.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	681	
5°	670	63
15°	570	158
25°	370	168
35°	162	103
45°	54	44
55°	18	17
65°	8	9
75°	2	3
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	681.0
2.5°	678.7
5°	669.5
7.5°	654.5
10°	632.6
12.5°	603.9
15°	570.5
17.5°	529.1
20°	482.0
22.5°	427.9
25°	370.4
27.5°	311.7
30°	255.4
32.5°	207.0
35°	162.2
37.5°	125.4
40°	95.5
42.5°	71.3
45°	54.1
47.5°	40.3
50°	29.9
52.5°	23.0
55°	18.4
57.5°	15.0
60°	12.7
62.5°	10.4
65°	8.1
67.5°	6.9
70°	5.8
72.5°	3.5
75°	2.3
77.5°	1.2
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)