

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: P990592

Luminaire Tested: **ML2ALSFL9FS1E-TIR1D40FL-TL2RDMB-550LM-2700K**

Issue Date: 5/13/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P990592
 Test Lab: Cooper Lighting Solutions
 Issue Date: 5/13/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: ML2ALSFL9FS1E-TIR1D40FL-TL2RDMB-550LM-2700K
 Description: 2IN ROUND ML FLEX ADJUSTABLE, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK TRIM
 Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
 Ballast/Driver: -

Summary

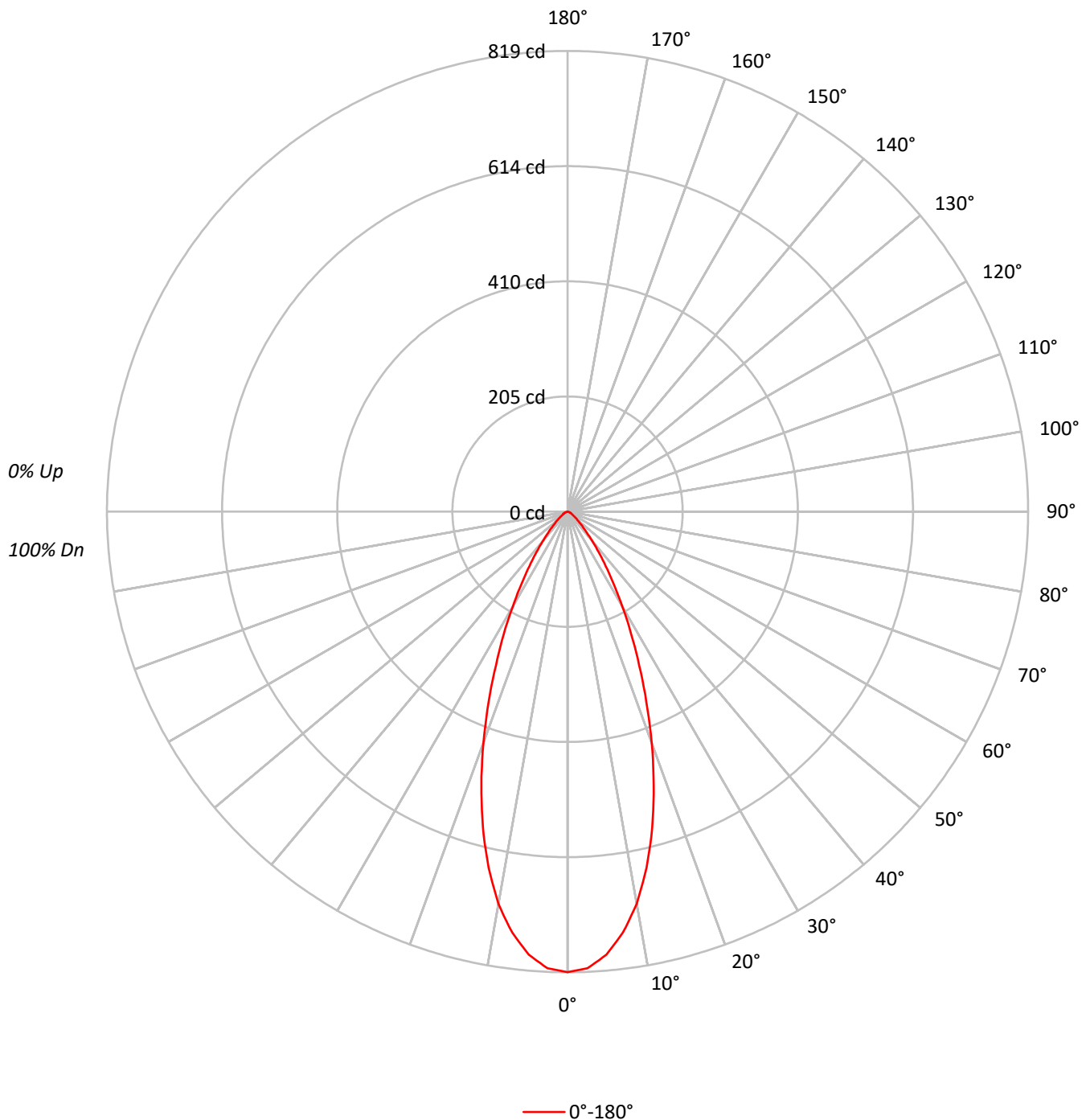
Lumens per Lamp: N/A
 Luminaire Lumens: 500.7 lumens
 Efficiency: N/A
 Efficacy: 65.9 lumens/watt
 Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.69
 Luminous Opening: Circular (Dia: 0.17' x H: 0')
 CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P990592

CATALOG NUMBER: ML2ALSFL9FS1E-TIR1D40FL-TL2RDDB-550LM-2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94		
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87		
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81		
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76		
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71		
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67		
7	85	76	70	66	83	75	70	66	74	69	65	73	68	65	71	68	65	63		
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60		
9	77	68	62	59	76	68	62	59	67	62	58	66	61	58	65	61	58	57		
10	74	65	59	56	73	64	59	56	64	59	55	63	58	55	62	58	55	54		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	403930
5°	391556
10°	354501
15°	297021
20°	229602
25°	163968
30°	111207
35°	71132
40°	43861
45°	27212
50°	17654
55°	12043
60°	8881
65°	8172
70°	5770
75°	3813
80°	0
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	14.5
10°-20°	159.9	31.9
20°-30°	138.9	27.7
30°-40°	75.7	15.1
40°-50°	31.6	6.3
50°-60°	13.1	2.6
60°-70°	6.5	1.3
70°-80°	2.1	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°	371.6	74.2
0°-40°	447.3	89.3
0°-60°	492.0	98.3
0°-90°	500.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	500.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	819	
5°	791	73
15°	582	160
25°	301	139
35°	118	76
45°	39	32
55°	14	13
65°	7	7
75°	2	2
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	818.7
2.5°	812.6
5°	790.6
7.5°	754.6
10°	707.6
12.5°	648.5
15°	581.5
17.5°	509.4
20°	437.3
22.5°	366.3
25°	301.2
27.5°	245.2
30°	195.2
32.5°	152.1
35°	118.1
37.5°	90.1
40°	68.1
42.5°	51.0
45°	39.0
47.5°	30.0
50°	23.0
52.5°	18.0
55°	14.0
57.5°	11.0
60°	9.0
62.5°	8.0
65°	7.0
67.5°	5.0
70°	4.0
72.5°	3.0
75°	2.0
77.5°	1.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)