

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: P990785

Luminaire Tested: **ML3ALSFL9FS1E-TIR4D55WFL-TL3RDMB-750LM-4000K**

Issue Date: 5/13/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P990785
 Test Lab: Cooper Lighting Solutions
 Issue Date: 5/13/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: ML3ALSFL9FS1E-TIR4D55WFL-TL3RDMB-750LM-4000K
 Description: 3IN ROUND ML FLEX ADJUSTABLE, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM
 Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 764.7 lumens
 Efficiency: N/A
 Efficacy: 78.8 lumens/watt
 Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.78
 Luminous Opening: Circular (Dia: 0.25' x H: 0')
 CIE Type: Direct

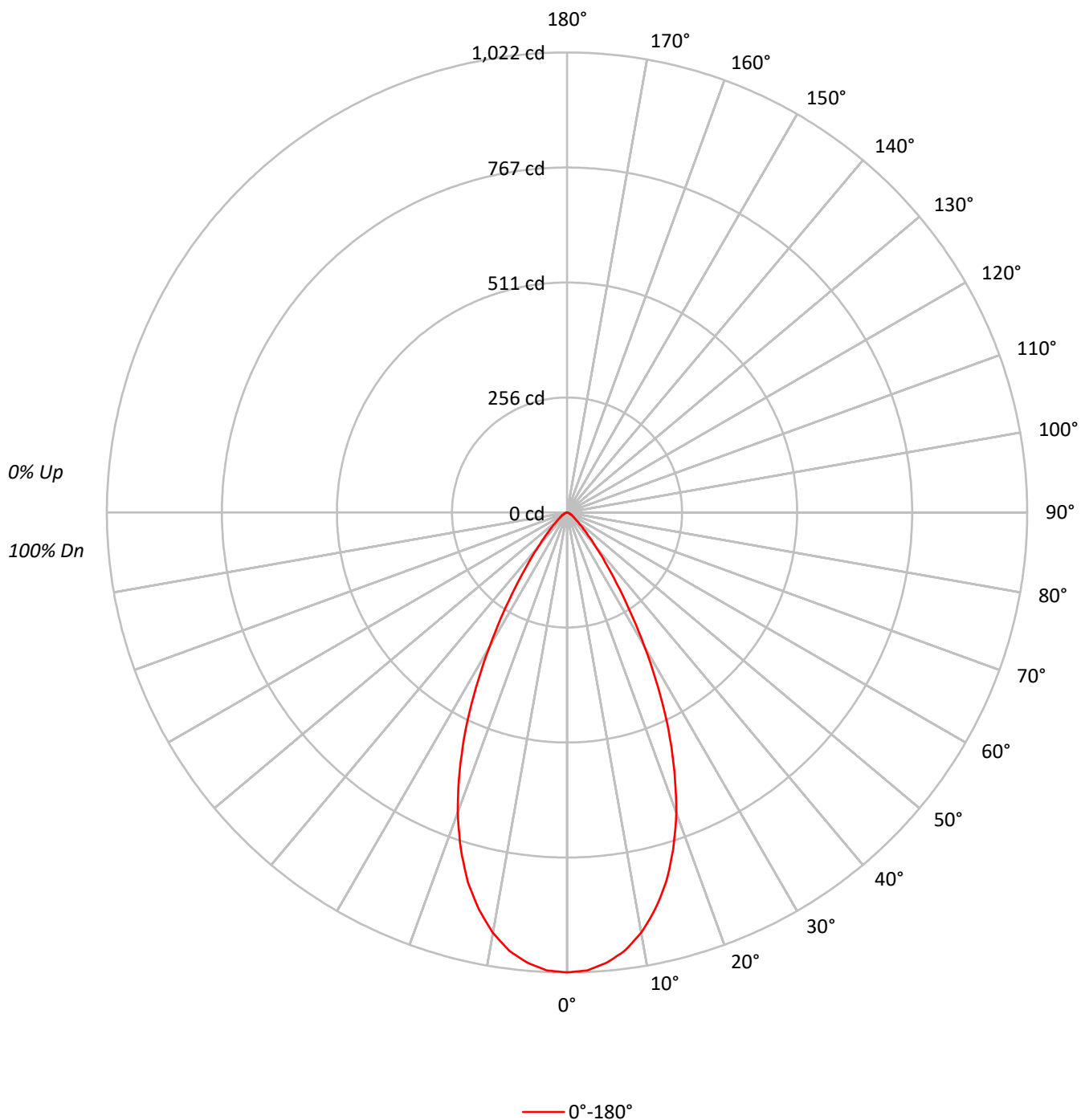
Input Watts (W): 9.7
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

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	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		92
3	103	96	91	87	101	95	90	87	92	88	85		90	87	84		88
4	98	90	85	80	96	89	84	80	87	82	79		85	81	78		83
5	93	85	79	75	91	84	78	74	82	77	74		80	76	73		79
6	88	80	74	70	87	79	73	69	77	72	69		76	72	68		75
7	84	75	69	65	83	74	69	65	73	68	65		72	68	64		71
8	80	71	65	61	79	70	65	61	69	64	61		68	64	60		67
9	77	67	61	58	76	67	61	58	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°	223995
5°	221109
10°	211107
15°	193009
20°	165611
25°	128983
30°	87026
35°	51263
40°	28339
45°	16157
50°	9791
55°	6920
60°	5131
65°	4410
70°	3398
75°	1779
80°	1389
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	12.3
10°-20°	235.1	30.7
20°-30°	240.4	31.4
30°-40°	124.5	16.3
40°-50°	42.9	5.6
50°-60°	16.8	2.2
60°-70°	8.1	1.1
70°-80°	2.5	0.3
80°-90°	0.1	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°	569.7	74.5
0°-40°	694.2	90.8
0°-60°	753.9	98.6
0°-90°	764.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	764.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1022	
5°	1004	94
15°	850	235
25°	533	240
35°	192	125
45°	52	43
55°	18	17
65°	8	8
75°	2	3
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1021.5
2.5°	1018.3
5°	1004.5
7.5°	982.1
10°	948.1
12.5°	903.4
15°	850.2
17.5°	784.2
20°	709.7
22.5°	623.5
25°	533.1
27.5°	437.3
30°	343.7
32.5°	260.7
35°	191.5
37.5°	138.3
40°	99.0
42.5°	71.3
45°	52.1
47.5°	38.3
50°	28.7
52.5°	22.3
55°	18.1
57.5°	14.9
60°	11.7
62.5°	9.6
65°	8.5
67.5°	6.4
70°	5.3
72.5°	3.2
75°	2.1
77.5°	1.1
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)