

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P697118

Luminaire Tested: **MRI-FEU4C-05-L940 F4X-M-X-H**

Issue Date: 08/03/2023



Test Information

Test Method: LM-79-08
Report Number: P697118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)
Test Lab: INNOVATION CENTER-P3
Issue Date: 08/03/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-FEU4C-05-L940 F4X-M-X-H
Description: 4 INCH FAIL-SAFE MRI LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBMH TRIM
Light Source: -
Ballast/Driver: -

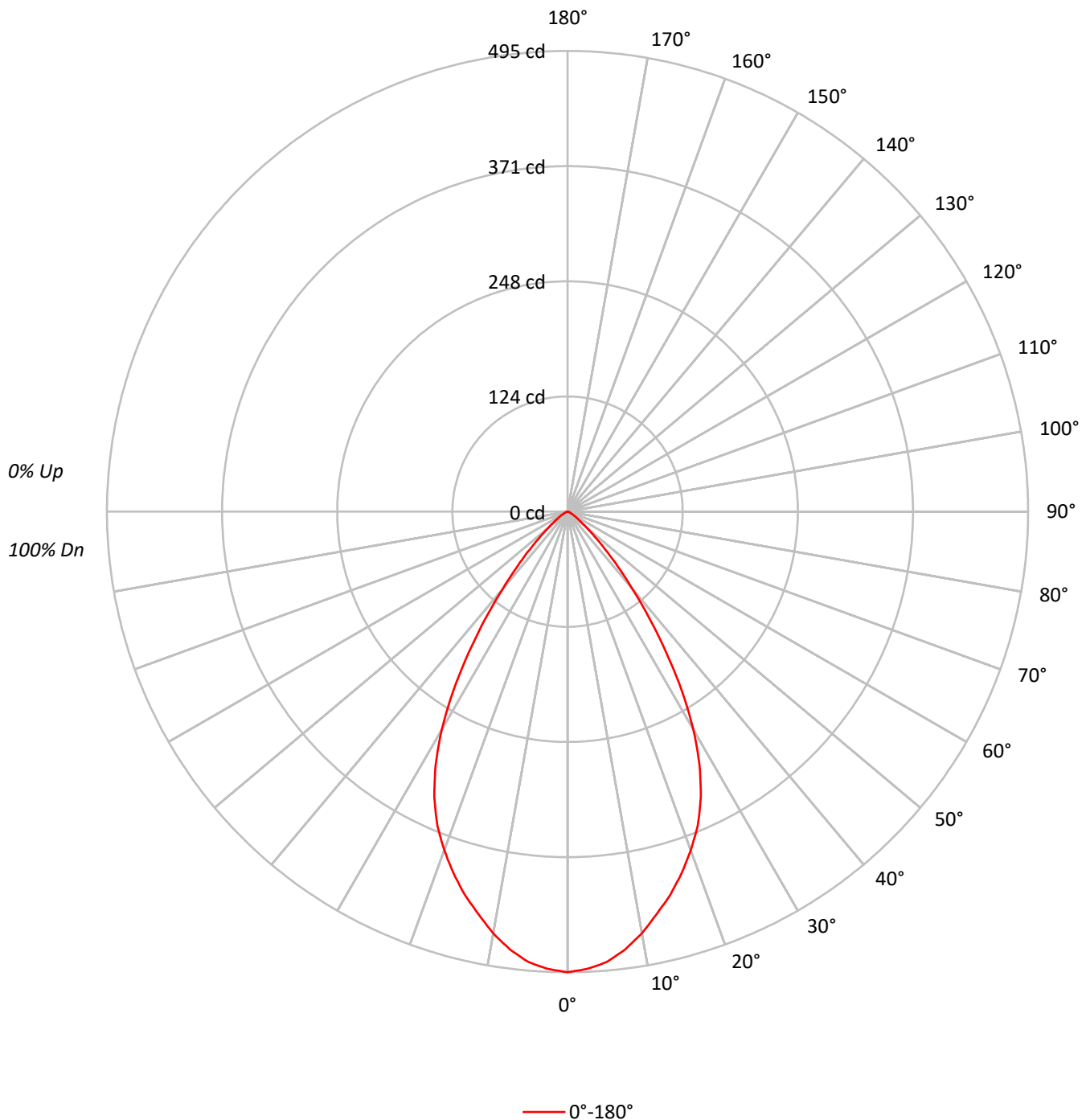
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 499.1 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P697118
CATALOG NUMBER: MRI-FEU4C-05-L940 F4X-M-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P697118

CATALOG NUMBER: MRI-FEU4C-05-L940 F4X-M-X-H

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	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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93		
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79		
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73		
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67		
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62		
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58		
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54		
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50		
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60788
5°	59898
10°	57397
15°	54220
20°	50609
25°	45939
30°	38359
35°	27791
40°	17401
45°	9938
50°	5180
55°	2913
60°	1843
65°	1105
70°	826
75°	380
80°	566
85°	0



TEST NUMBER: P697118
 CATALOG NUMBER: MRI-FEU4C-05-L940 F4X-M-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	9.1
10°-20°	119.4	23.9
20°-30°	153.5	30.8
30°-40°	115.5	23.1
40°-50°	46.4	9.3
50°-60°	13.2	2.6
60°-70°	4.2	0.8
70°-80°	1.2	0.2
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°	318.5	63.8
0°-40°	434.0	87.0
0°-60°	493.5	98.9
0°-90°	499.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	499.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	495	
5°	486	46
15°	426	119
25°	339	154
35°	185	115
45°	57	46
55°	14	13
65°	4	4
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P697118
CATALOG NUMBER: MRI-FEU4C-05-L940 F4X-M-X-H

CANDELA DISTRIBUTION (FULL):

	0°
0°	494.8
2.5°	491.8
5°	485.7
7.5°	474.4
10°	460.1
12.5°	442.8
15°	426.3
17.5°	407.4
20°	387.1
22.5°	365.3
25°	338.9
27.5°	307.3
30°	270.4
32.5°	228.9
35°	185.3
37.5°	144.6
40°	108.5
42.5°	79.8
45°	57.2
47.5°	39.2
50°	27.1
52.5°	18.8
55°	13.6
57.5°	9.8
60°	7.5
62.5°	5.3
65°	3.8
67.5°	3.0
70°	2.3
72.5°	1.5
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)