

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: P696686

Luminaire Tested: **MRI-FEU4C-20-L930 F4X-M-X-H**

Issue Date: 08/03/2023



Test Information

Test Method: LM-79-08
Report Number: P696686
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-20-L930 F4X-M-X-H
Description: 4 INCH FAIL-SAFE MRI LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBMH TRIM
Light Source: -
Ballast/Driver: -

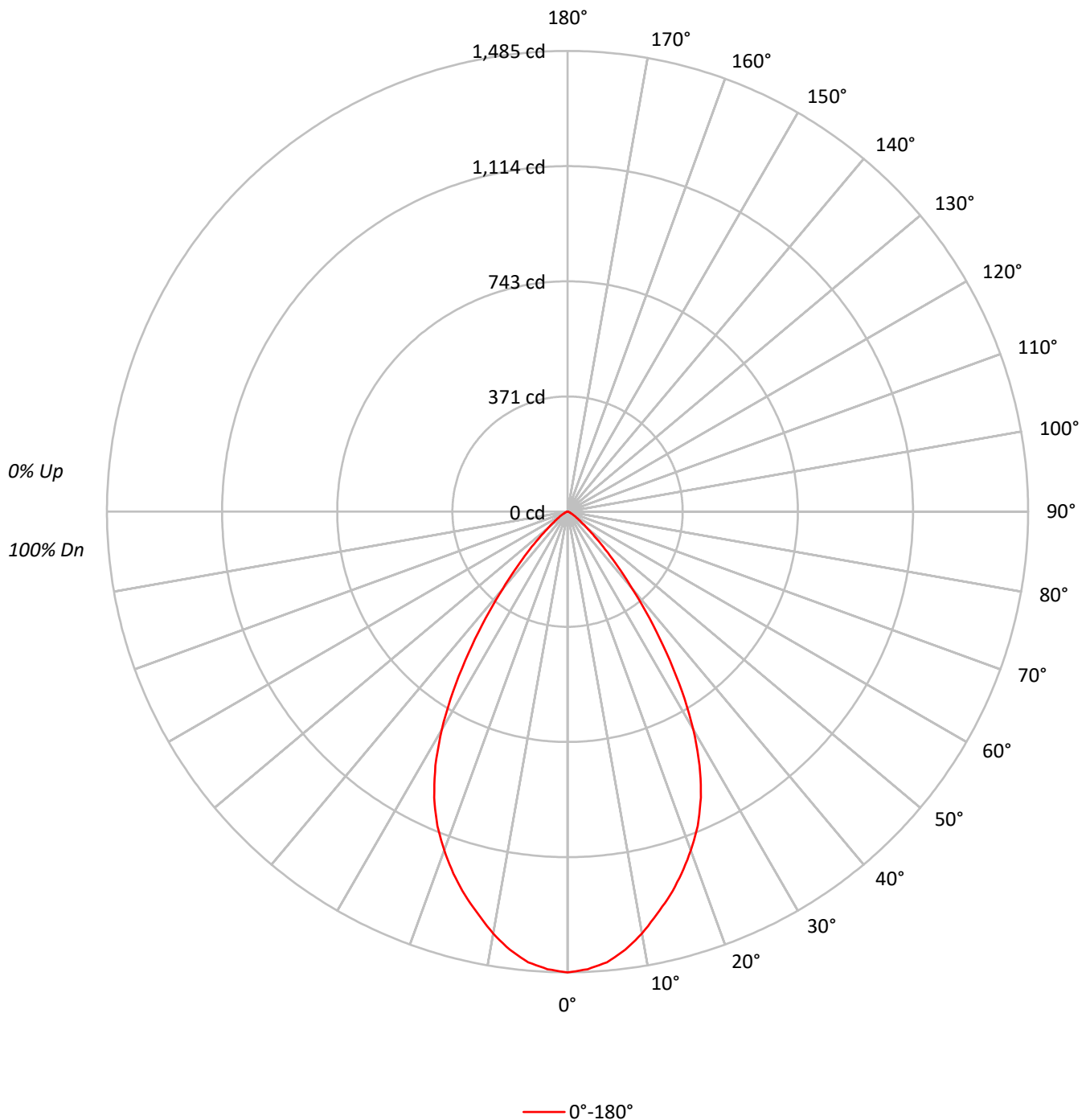
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1498.0 lumens
Efficiency: N/A
Efficacy: 68.7 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): 21.8
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

TEST NUMBER: P696686
CATALOG NUMBER: MRI-FEU4C-20-L930 F4X-M-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P696686

CATALOG NUMBER: MRI-FEU4C-20-L930 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°	182487
5°	179829
10°	172315
15°	162749
20°	151917
25°	137912
30°	115147
35°	83417
40°	52218
45°	29849
50°	15558
55°	8717
60°	5553
65°	3285
70°	2443
75°	1092
80°	1627
85°	0



TEST NUMBER: P696686
 CATALOG NUMBER: MRI-FEU4C-20-L930 F4X-M-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	9.1
10°-20°	358.6	23.9
20°-30°	460.8	30.8
30°-40°	346.7	23.1
40°-50°	139.2	9.3
50°-60°	39.6	2.6
60°-70°	12.5	0.8
70°-80°	3.6	0.2
80°-90°	0.3	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°	956.0	63.8
0°-40°	1302.8	87.0
0°-60°	1481.6	98.9
0°-90°	1498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1498.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1485	
5°	1458	137
15°	1280	359
25°	1017	461
35°	556	347
45°	172	139
55°	41	40
65°	11	13
75°	2	4
85°	0	0
90°	0	



TEST NUMBER: P696686
CATALOG NUMBER: MRI-FEU4C-20-L930 F4X-M-X-H

CANDELA DISTRIBUTION (FULL):

0°	
0°	1485.4
2.5°	1476.3
5°	1458.2
7.5°	1424.3
10°	1381.3
12.5°	1329.4
15°	1279.6
17.5°	1223.1
20°	1162.0
22.5°	1096.5
25°	1017.4
27.5°	922.4
30°	811.7
32.5°	687.3
35°	556.2
37.5°	434.1
40°	325.6
42.5°	239.6
45°	171.8
47.5°	117.6
50°	81.4
52.5°	56.5
55°	40.7
57.5°	29.4
60°	22.6
62.5°	15.8
65°	11.3
67.5°	9.0
70°	6.8
72.5°	4.5
75°	2.3
77.5°	2.3
80°	2.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)