

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: P696860

Luminaire Tested: **MRI-FEU4C-25-L927 F4X-W-X-LI**

Issue Date: 08/03/2023



Test Information

Test Method: LM-79-08
Report Number: P696860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)
Test Lab: INNOVATION CENTER-P3
Issue Date: 08/03/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-FEU4C-25-L927 F4X-W-X-LI
Description: 4 INCH FAIL-SAFE MRI LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWLI TRIM
Light Source: -
Ballast/Driver: -

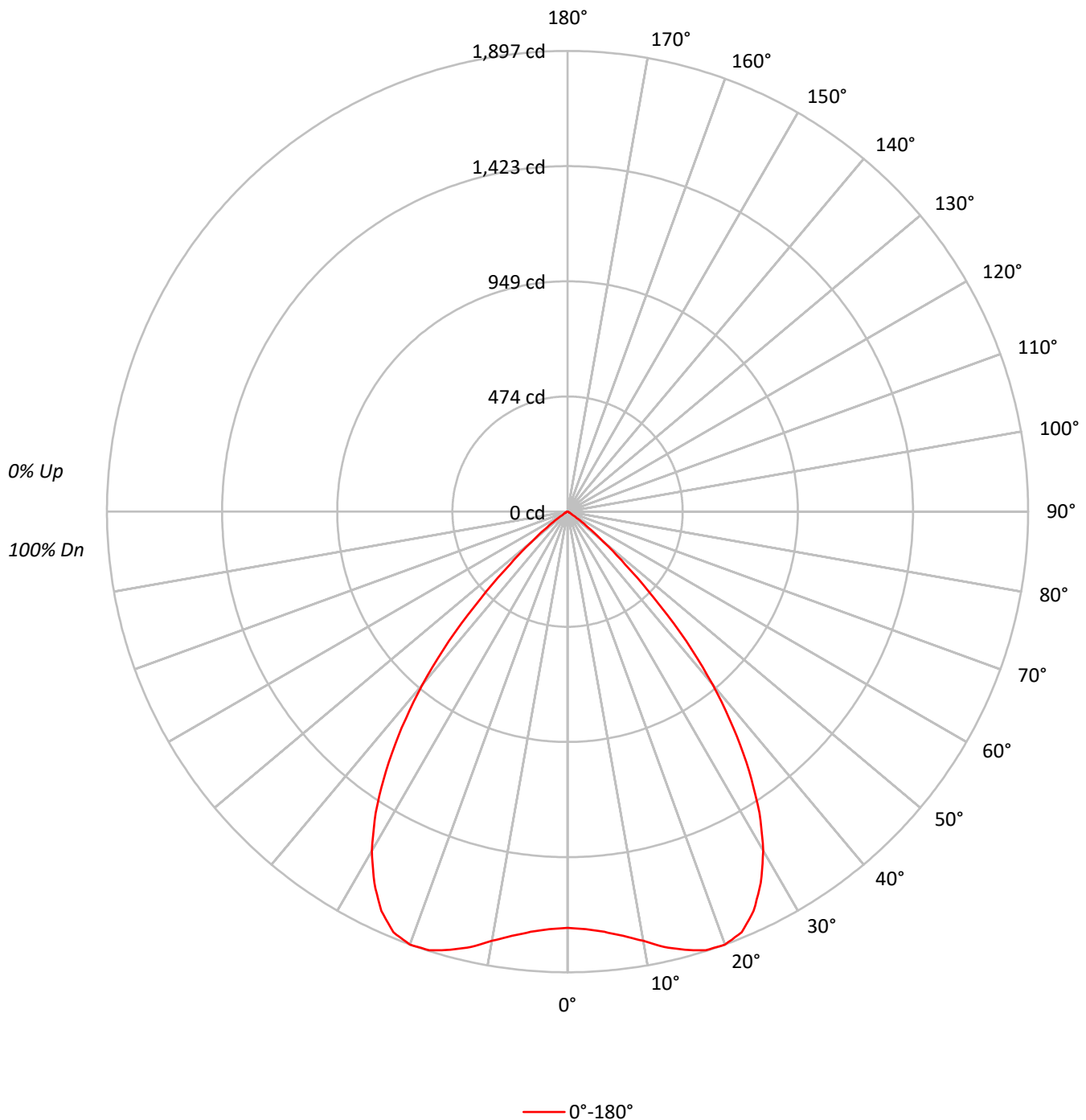
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2797.9 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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: P696860
CATALOG NUMBER: MRI-FEU4C-25-L927 F4X-W-X-LI

Luminous Intensity Polar Plot





TEST NUMBER: P696860

CATALOG NUMBER: MRI-FEU4C-25-L927 F4X-W-X-LI

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	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92		
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84		
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77		
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70		
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64		
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58		
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54		
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49		
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45		
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	210608
5°	214187
10°	223862
15°	237611
20°	248023
25°	245868
30°	228648
35°	195599
40°	149035
45°	87409
50°	37346
55°	10988
60°	3145
65°	1860
70°	1149
75°	1519
80°	0
85°	0



TEST NUMBER: P696860
 CATALOG NUMBER: MRI-FEU4C-25-L927 F4X-W-X-LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.6	6.0
10°-20°	529.1	18.9
20°-30°	825.4	29.5
30°-40°	803.1	28.7
40°-50°	401.1	14.3
50°-60°	62.1	2.2
60°-70°	7.5	0.3
70°-80°	2.1	0.1
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°	1522.1	54.4
0°-40°	2325.2	83.1
0°-60°	2788.4	99.7
0°-90°	2797.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2797.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1714	
5°	1737	168
15°	1868	529
25°	1814	825
35°	1304	803
45°	503	401
55°	51	62
65°	6	7
75°	3	2
85°	0	0
90°	0	



TEST NUMBER: P696860
CATALOG NUMBER: MRI-FEU4C-25-L927 F4X-W-X-LI

CANDELA DISTRIBUTION (FULL):

0°	
0°	1714.3
2.5°	1720.7
5°	1736.8
7.5°	1762.4
10°	1794.5
12.5°	1836.1
15°	1868.2
17.5°	1893.8
20°	1897.1
22.5°	1874.6
25°	1813.8
27.5°	1723.9
30°	1611.8
32.5°	1470.9
35°	1304.2
37.5°	1121.5
40°	929.3
42.5°	724.2
45°	503.1
47.5°	323.6
50°	195.4
52.5°	105.7
55°	51.3
57.5°	22.5
60°	12.8
62.5°	9.6
65°	6.4
67.5°	6.4
70°	3.2
72.5°	3.2
75°	3.2
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)