

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: P696746

Luminaire Tested: **MRI-FEU4C-20-L935 F4X-W-X-H**

Issue Date: 08/03/2023



Test Information

Test Method: LM-79-08
Report Number: P696746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)
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-L935 F4X-W-X-H
Description: 4 INCH FAIL-SAFE MRI LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBWH TRIM
Light Source: -
Ballast/Driver: -

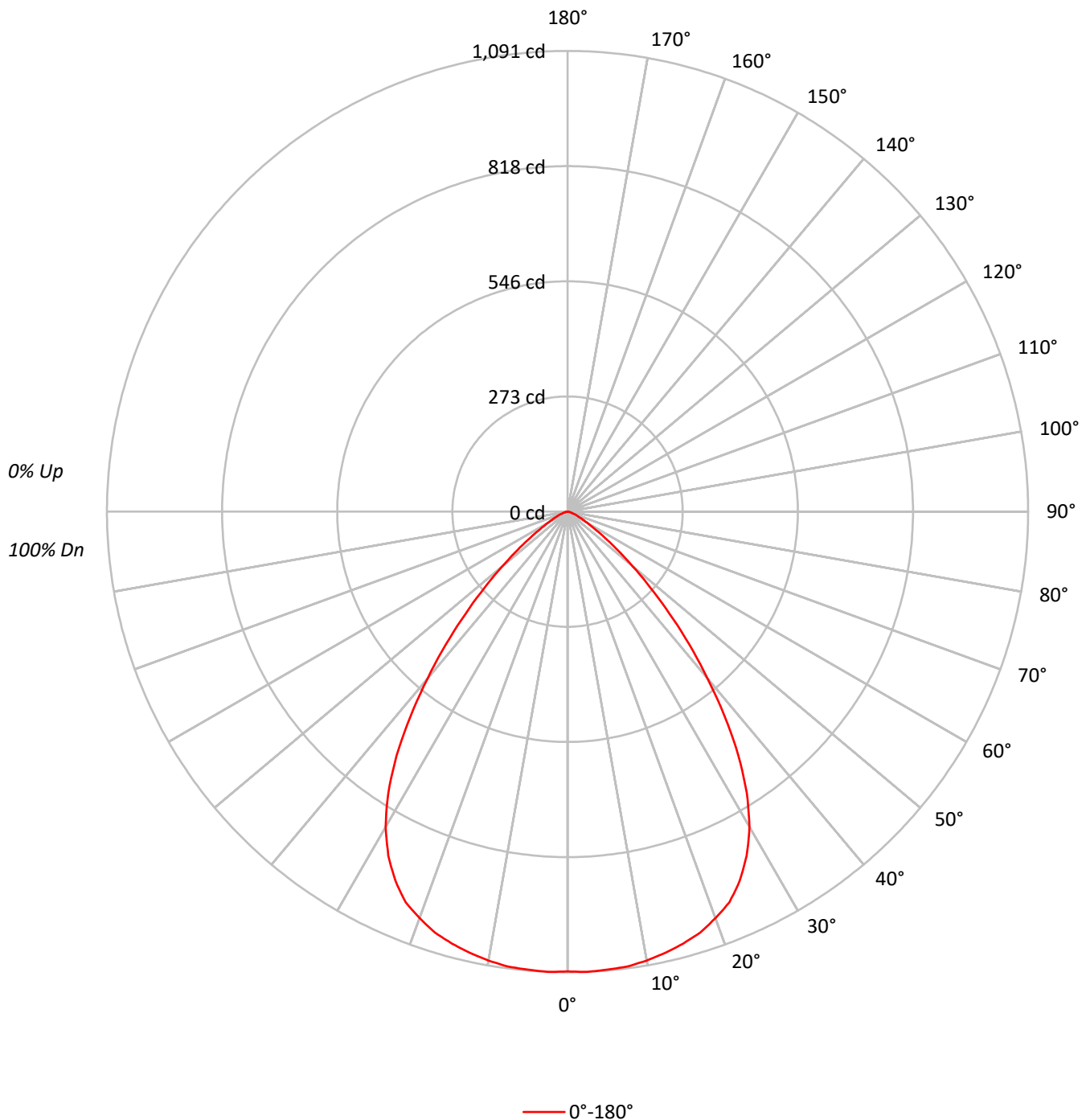
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1689.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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: P696746
CATALOG NUMBER: MRI-FEU4C-20-L935 F4X-W-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P696746

CATALOG NUMBER: MRI-FEU4C-20-L935 F4X-W-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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96
2	105	100	95	91	103	98	93	90	95	91	88		91	88	86		89
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82
4	92	83	77	72	90	82	76	71	80	75	70		78	73	70		76
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70
6	81	71	64	58	80	70	63	58	68	62	58		67	61	57		65
7	76	65	58	53	75	65	58	53	63	57	53		62	56	52		61
8	72	60	53	49	70	60	53	49	59	53	48		58	52	48		57
9	68	56	49	45	66	56	49	45	55	49	44		54	48	44		53
10	64	52	46	41	63	52	46	41	51	45	41		50	45	41		49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	133751
5°	134261
10°	134666
15°	134666
20°	133928
25°	130796
30°	122254
35°	105868
40°	82705
45°	59333
50°	38550
55°	23068
60°	13514
65°	8663
70°	5783
75°	4367
80°	3254
85°	0



TEST NUMBER: P696746
 CATALOG NUMBER: MRI-FEU4C-20-L935 F4X-W-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	6.1
10°-20°	298.7	17.7
20°-30°	440.8	26.1
30°-40°	435.0	25.8
40°-50°	266.2	15.8
50°-60°	102.1	6.0
60°-70°	31.9	1.9
70°-80°	9.4	0.6
80°-90°	1.2	0.1
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°	843.2	49.9
0°-40°	1278.2	75.7
0°-60°	1646.5	97.5
0°-90°	1689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1689.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1089	
5°	1089	104
15°	1059	299
25°	965	441
35°	706	435
45°	342	266
55°	108	102
65°	30	32
75°	9	9
85°	0	1
90°	0	



TEST NUMBER: P696746
CATALOG NUMBER: MRI-FEU4C-20-L935 F4X-W-X-H

CANDELA DISTRIBUTION (FULL):

0°	
0°	1088.7
2.5°	1091.0
5°	1088.7
7.5°	1086.4
10°	1079.5
12.5°	1070.3
15°	1058.8
17.5°	1045.1
20°	1024.4
22.5°	1001.6
25°	964.9
27.5°	919.0
30°	861.8
32.5°	790.7
35°	705.9
37.5°	611.9
40°	515.7
42.5°	426.3
45°	341.5
47.5°	265.8
50°	201.7
52.5°	149.0
55°	107.7
57.5°	75.6
60°	55.0
62.5°	41.3
65°	29.8
67.5°	22.9
70°	16.1
72.5°	11.5
75°	9.2
77.5°	4.6
80°	4.6
82.5°	2.3
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)