

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: P696416

Luminaire Tested: **MRI-FEU4C-10-L940 F4X-N-X-LI**

Issue Date: 08/03/2023



Test Information

Test Method: LM-79-08
Report Number: P696416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)
Test Lab: INNOVATION CENTER-P3
Issue Date: 08/03/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-FEU4C-10-L940 F4X-N-X-LI
Description: 4 INCH FAIL-SAFE MRI LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBNLI TRIM
Light Source: -
Ballast/Driver: -

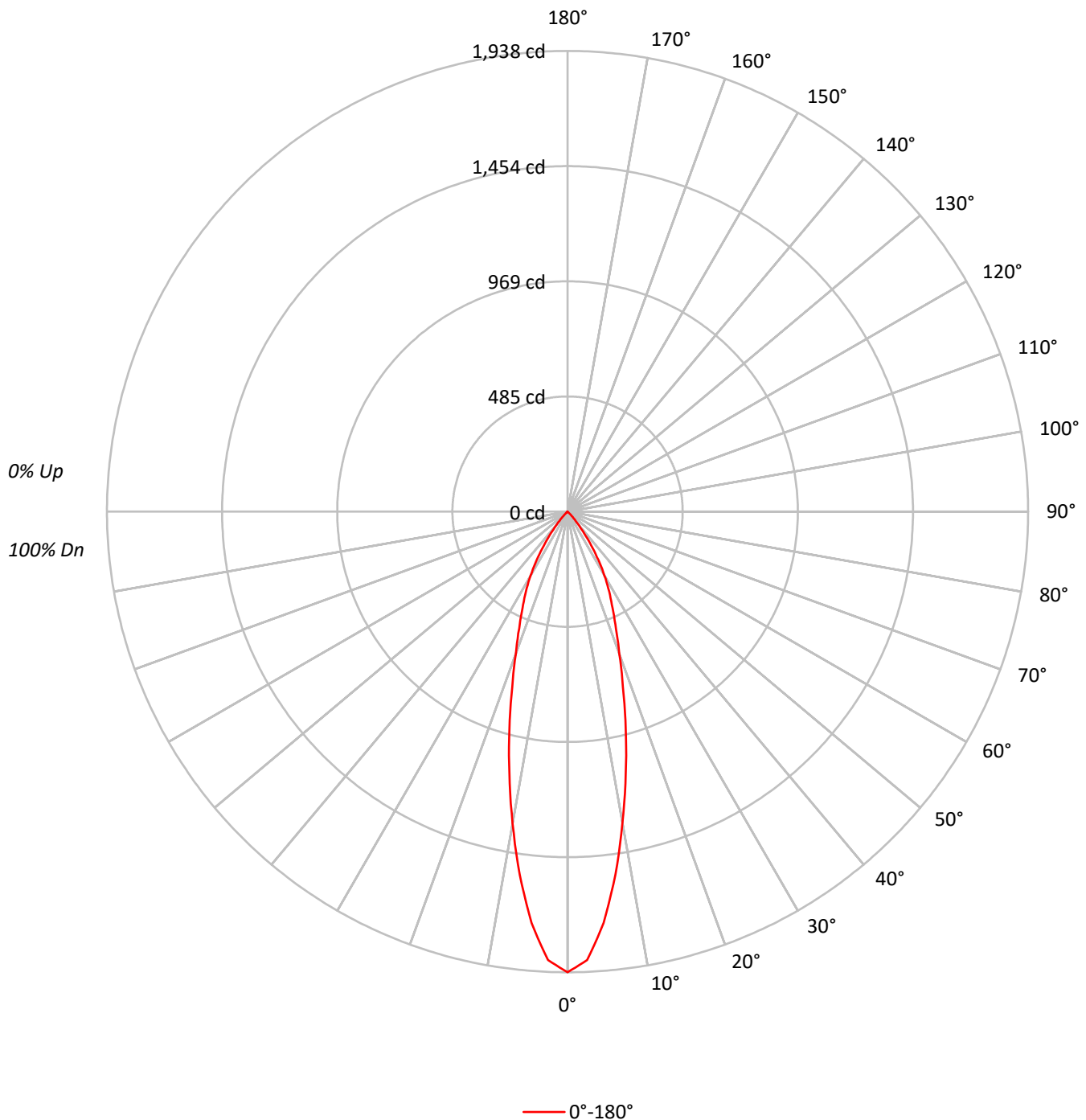
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 753.0 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.75
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

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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	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	99	99
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	94	93
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90	89	88
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85	84	83
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81	80	79
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77	76	75
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73	72	71
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69	68	67
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66	65	64
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63	62	61
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	238065
5°	214236
10°	166078
15°	120205
20°	83228
25°	60674
30°	44090
35°	26096
40°	10970
45°	3423
50°	440
55°	257
60°	295
65°	349
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	20.3
10°-20°	261.4	34.7
20°-30°	207.8	27.6
30°-40°	110.0	14.6
40°-50°	18.9	2.5
50°-60°	1.4	0.2
60°-70°	0.7	0.1
70°-80°	0.0	0.0
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°	621.9	82.6
0°-40°	731.9	97.2
0°-60°	752.3	99.9
0°-90°	753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	753.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1938	
5°	1737	153
15°	945	261
25°	448	208
35°	174	110
45°	20	19
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1937.8
2.5°	1887.9
5°	1737.2
7.5°	1540.0
10°	1331.3
12.5°	1129.5
15°	945.1
17.5°	773.5
20°	636.6
22.5°	532.3
25°	447.6
27.5°	379.2
30°	310.8
32.5°	241.2
35°	174.0
37.5°	114.8
40°	68.4
42.5°	39.4
45°	19.7
47.5°	7.0
50°	2.3
52.5°	2.3
55°	1.2
57.5°	1.2
60°	1.2
62.5°	1.2
65°	1.2
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)