

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: P696410

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

Issue Date: 08/03/2023



Test Information

Test Method: LM-79-08
Report Number: P696410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207666)
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-H
Description: 4 INCH FAIL-SAFE MRI LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBNH TRIM
Light Source: -
Ballast/Driver: -

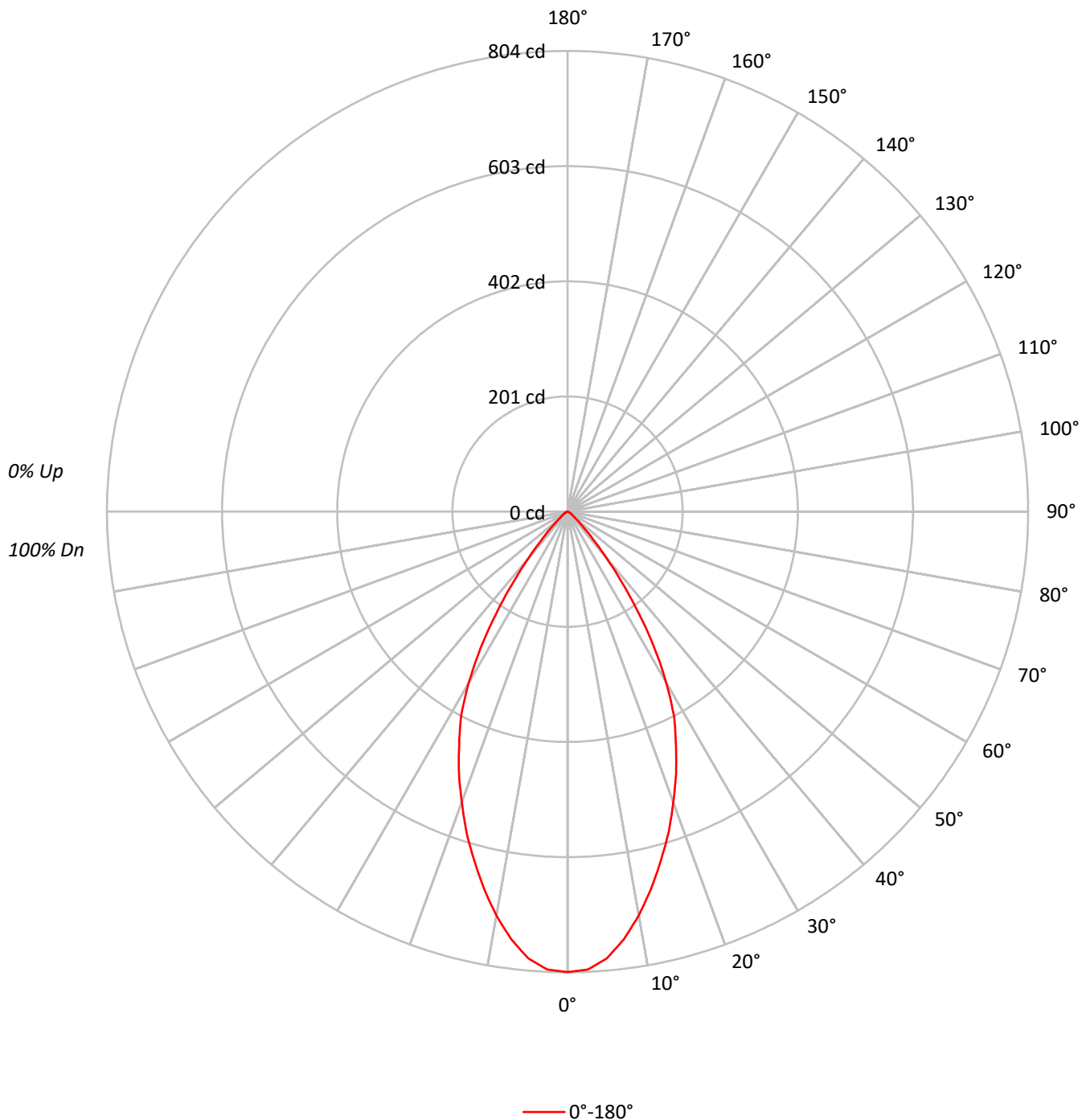
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 640.0 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
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			
RCR																						
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102	100
1	113	111	108	106		111	109	106	104		105	103	101		101	99	98		97	96	95	93
2	108	103	99	96		106	101	98	94		98	95	92		95	93	90		92	90	89	87
3	102	96	91	87		100	95	90	86		92	88	85		90	86	84		87	85	82	81
4	97	90	84	80		95	89	83	79		86	82	78		84	81	78		83	79	77	75
5	92	84	78	74		91	83	78	73		81	76	73		80	75	72		78	74	72	70
6	88	79	73	69		86	78	72	68		76	72	68		75	71	67		74	70	67	65
7	83	74	68	64		82	73	68	64		72	67	63		71	66	63		70	66	63	61
8	79	70	64	60		78	69	64	60		68	63	59		67	63	59		66	62	59	58
9	76	66	60	56		74	65	60	56		65	59	56		64	59	56		63	59	55	54
10	72	62	57	53		71	62	56	53		61	56	53		60	56	52		60	55	52	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	98713
5°	96525
10°	89245
15°	80077
20°	70494
25°	60660
30°	48856
35°	32515
40°	16919
45°	7662
50°	3326
55°	2228
60°	1425
65°	1017
70°	826
75°	570
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	11.3
10°-20°	175.9	27.5
20°-30°	204.2	31.9
30°-40°	135.2	21.1
40°-50°	37.9	5.9
50°-60°	9.5	1.5
60°-70°	3.6	0.6
70°-80°	1.3	0.2
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°	452.5	70.7
0°-40°	587.7	91.8
0°-60°	635.2	99.2
0°-90°	640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	640.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	804	
5°	783	72
15°	630	176
25°	448	204
35°	217	135
45°	44	38
55°	10	10
65°	4	4
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	803.5
2.5°	800.1
5°	782.7
7.5°	752.5
10°	715.4
12.5°	673.6
15°	629.6
17.5°	586.7
20°	539.2
22.5°	495.1
25°	447.5
27.5°	402.4
30°	344.4
32.5°	282.9
35°	216.8
37.5°	155.4
40°	105.5
42.5°	68.4
45°	44.1
47.5°	26.7
50°	17.4
52.5°	12.7
55°	10.4
57.5°	8.1
60°	5.8
62.5°	4.7
65°	3.5
67.5°	2.3
70°	2.3
72.5°	1.2
75°	1.2
77.5°	1.2
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)