

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: P696770

Luminaire Tested: **MRI-FEU4C-20-L940 F4X-N-X-H**

Issue Date: 08/03/2023



Test Information

Test Method: LM-79-08
Report Number: P696770
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-20-L940 F4X-N-X-H
Description: 4 INCH FAIL-SAFE MRI LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBNH TRIM
Light Source: -
Ballast/Driver: -

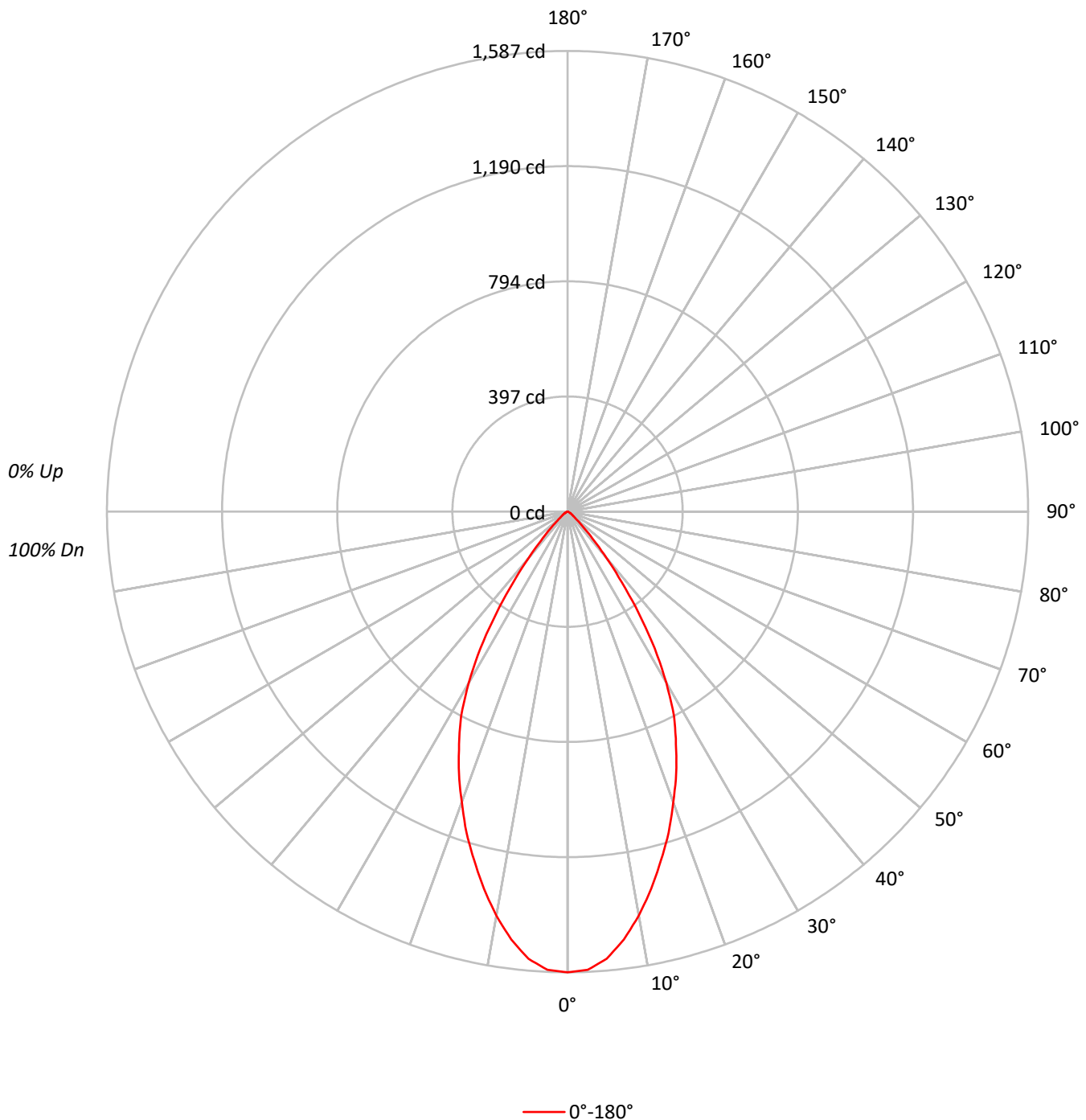
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1264.0 lumens
Efficiency: N/A
Efficacy: 58.0 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): 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

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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					30					10					0
RW	70	50	30	10		70	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
1	113	111	108	106		111	109	106	104		105	103	101		101	99	98		97	96	95
2	108	103	99	96		106	101	98	94		98	95	92		95	93	90		92	90	89
3	102	96	91	87		100	95	90	86		92	88	85		90	86	84		87	85	82
4	97	90	84	80		95	89	83	79		86	82	78		84	81	78		83	79	77
5	92	84	78	74		91	83	78	73		81	76	73		80	75	72		78	74	72
6	88	79	73	69		86	78	72	68		76	72	68		75	71	67		74	70	67
7	83	74	68	64		82	73	68	64		72	67	63		71	66	63		70	66	63
8	79	70	64	60		78	69	64	60		68	63	59		67	63	59		66	62	59
9	76	66	60	56		74	65	60	56		65	59	56		64	59	56		63	59	55
10	72	62	57	53		71	62	56	53		61	56	53		60	56	52		60	55	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	194968
5°	190632
10°	176257
15°	158157
20°	139223
25°	119816
30°	96478
35°	64235
40°	33406
45°	15133
50°	6556
55°	4412
60°	2826
65°	2006
70°	1652
75°	1092
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	11.3
10°-20°	347.3	27.5
20°-30°	403.2	31.9
30°-40°	267.1	21.1
40°-50°	74.9	5.9
50°-60°	18.8	1.5
60°-70°	7.1	0.6
70°-80°	2.4	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°	893.7	70.7
0°-40°	1160.8	91.8
0°-60°	1254.5	99.2
0°-90°	1264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1264.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1587	
5°	1546	143
15°	1244	347
25°	884	403
35°	428	267
45°	87	75
55°	21	19
65°	7	7
75°	2	2
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1587.0
2.5°	1580.1
5°	1545.8
7.5°	1486.2
10°	1412.9
12.5°	1330.4
15°	1243.5
17.5°	1158.7
20°	1064.9
22.5°	977.8
25°	883.9
27.5°	794.7
30°	680.1
32.5°	558.8
35°	428.3
37.5°	306.9
40°	208.3
42.5°	135.1
45°	87.1
47.5°	52.7
50°	34.3
52.5°	25.2
55°	20.6
57.5°	16.1
60°	11.5
62.5°	9.2
65°	6.9
67.5°	4.6
70°	4.6
72.5°	2.3
75°	2.3
77.5°	2.3
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)