

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: P696818

Luminaire Tested: **MRI-FEU4C-20-L950 F4X-W-X-H**

Issue Date: 08/03/2023



Test Information

Test Method: LM-79-08
Report Number: P696818
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-L950 F4X-W-X-H
Description: 4 INCH FAIL-SAFE MRI LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWH TRIM
Light Source: -
Ballast/Driver: -

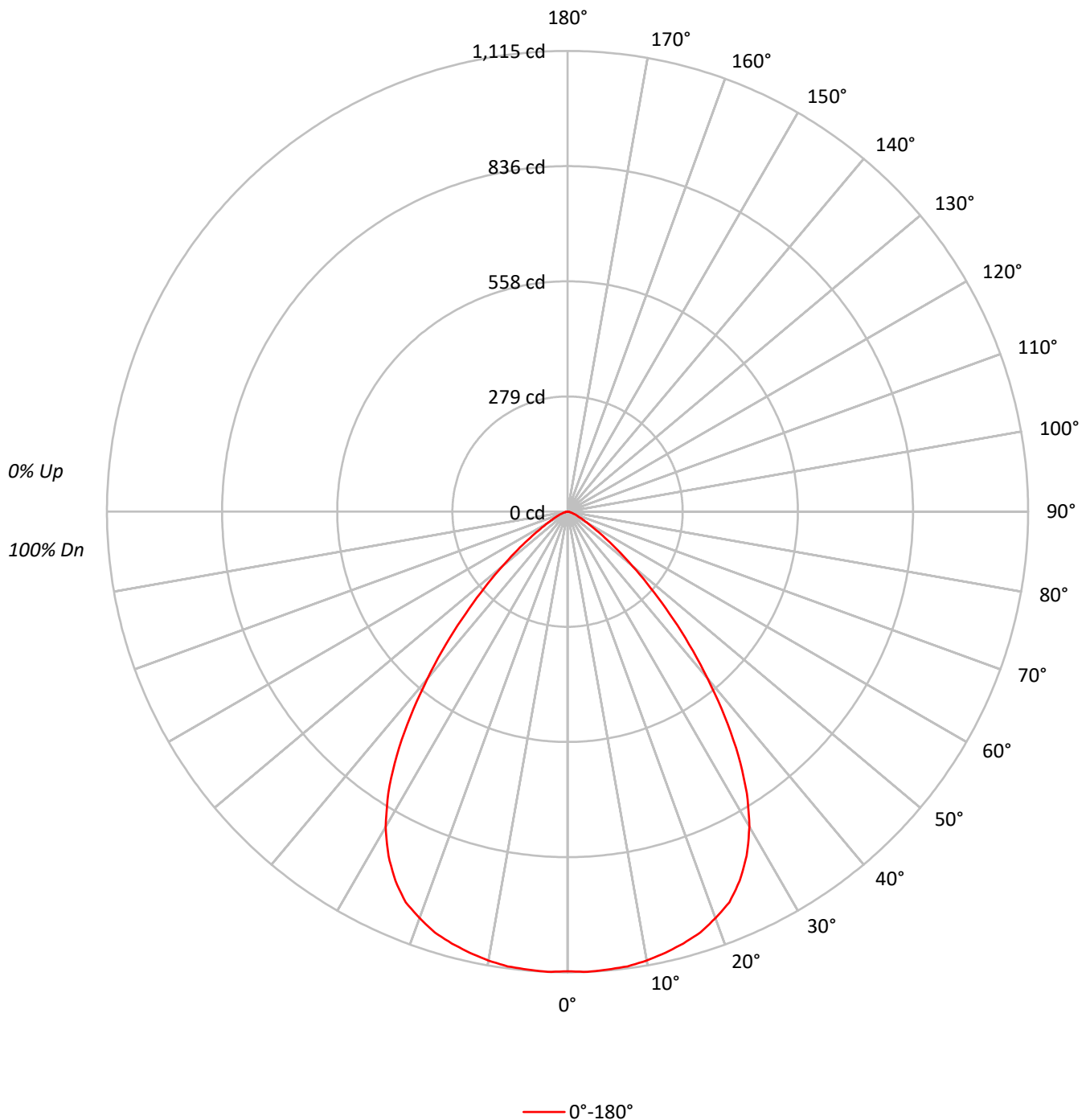
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1726.0 lumens
Efficiency: N/A
Efficacy: 79.2 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

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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
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°	136674
5°	137197
10°	137610
15°	137617
20°	136870
25°	133656
30°	124921
35°	108178
40°	84517
45°	60636
50°	39391
55°	23582
60°	13809
65°	8866
70°	5891
75°	4462
80°	3325
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	6.1
10°-20°	305.3	17.7
20°-30°	450.5	26.1
30°-40°	444.5	25.8
40°-50°	272.0	15.8
50°-60°	104.3	6.0
60°-70°	32.6	1.9
70°-80°	9.6	0.6
80°-90°	1.3	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°	861.7	49.9
0°-40°	1306.2	75.7
0°-60°	1682.6	97.5
0°-90°	1726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1726.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1112	
5°	1112	106
15°	1082	305
25°	986	450
35°	721	445
45°	349	272
55°	110	104
65°	30	33
75°	9	10
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1112.5
2.5°	1114.9
5°	1112.5
7.5°	1110.2
10°	1103.1
12.5°	1093.8
15°	1082.0
17.5°	1068.0
20°	1046.9
22.5°	1023.5
25°	986.0
27.5°	939.1
30°	880.6
32.5°	808.1
35°	721.3
37.5°	625.3
40°	527.0
42.5°	435.6
45°	349.0
47.5°	271.6
50°	206.1
52.5°	152.3
55°	110.1
57.5°	77.3
60°	56.2
62.5°	42.2
65°	30.5
67.5°	23.4
70°	16.4
72.5°	11.7
75°	9.4
77.5°	4.7
80°	4.7
82.5°	2.3
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)