

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: P696854

Luminaire Tested: **MRI-FEU4C-25-L927 F4X-W-X-H**

Issue Date: 08/03/2023



Test Information

Test Method: LM-79-08
Report Number: P696854
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-25-L927 F4X-W-X-H
Description: 4 INCH FAIL-SAFE MRI LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWH TRIM
Light Source: -
Ballast/Driver: -

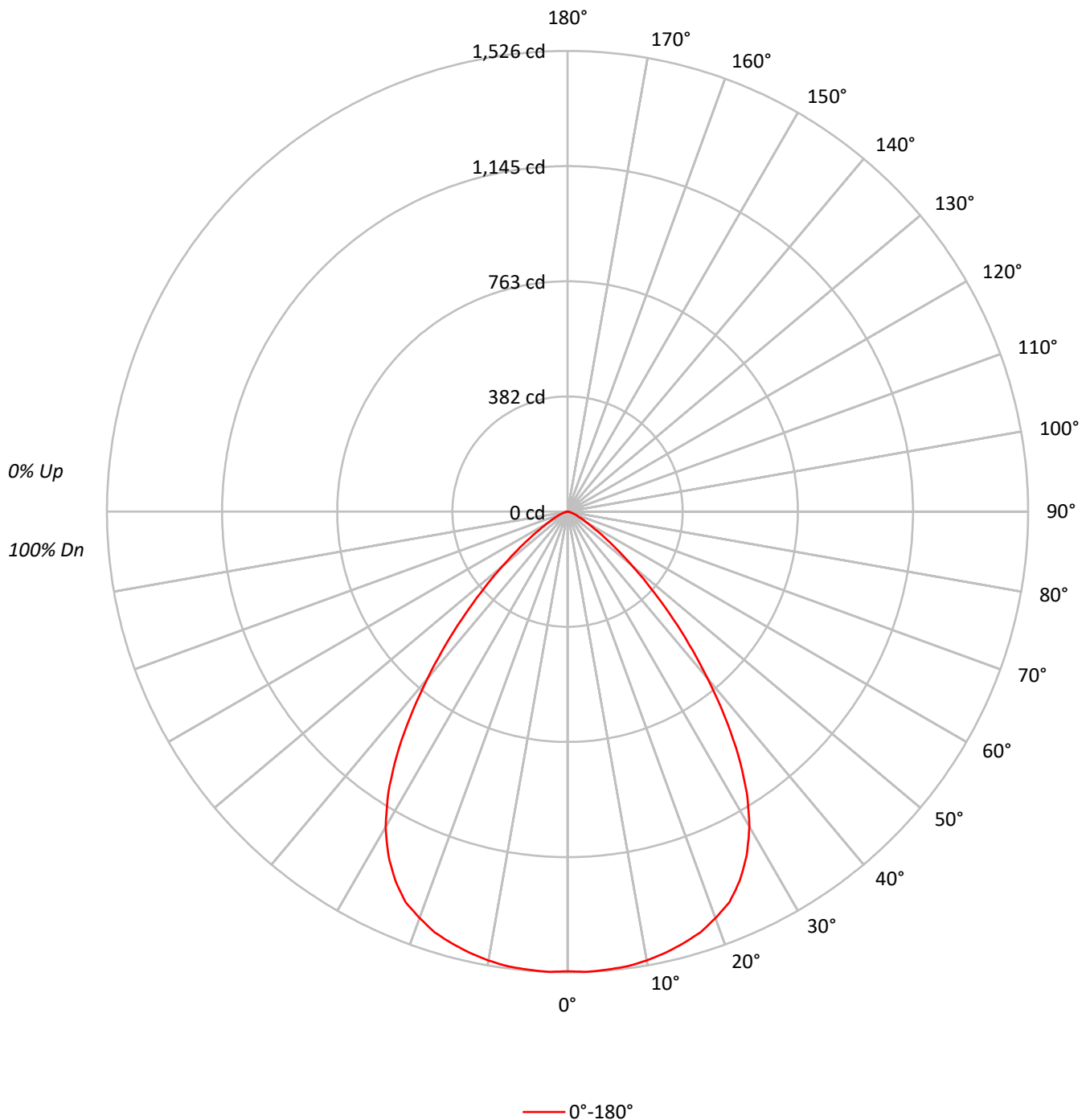
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2361.9 lumens
Efficiency: N/A
Efficacy: 74.7 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): 31.6
Input Voltage (V): NR
Input Current (Ain): 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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88		91	88	86		89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82	79	76	74
4	92	83	77	72	90	82	76	71	80	75	70		78	73	70		76	72	69	67
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70	66	62	61
6	81	71	64	58	80	70	63	58	68	62	58		67	61	57		65	61	57	55
7	76	65	58	53	75	65	58	53	63	57	53		62	56	52		61	56	52	50
8	72	60	53	49	70	60	53	49	59	53	48		58	52	48		57	52	48	46
9	68	56	49	45	66	56	49	45	55	49	44		54	48	44		53	48	44	43
10	64	52	46	41	63	52	46	41	51	45	41		50	45	41		49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	187044
5°	187759
10°	188321
15°	188326
20°	187295
25°	182916
30°	170954
35°	148042
40°	115646
45°	82979
50°	53898
55°	32257
60°	18895
65°	12122
70°	8082
75°	6076
80°	4528
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	6.1
10°-20°	417.8	17.7
20°-30°	616.5	26.1
30°-40°	608.3	25.8
40°-50°	372.3	15.8
50°-60°	142.7	6.0
60°-70°	44.6	1.9
70°-80°	13.1	0.6
80°-90°	1.7	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°	1179.2	49.9
0°-40°	1787.5	75.7
0°-60°	2302.5	97.5
0°-90°	2361.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2361.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1522	
5°	1522	145
15°	1481	418
25°	1349	616
35°	987	608
45°	478	372
55°	151	143
65°	42	45
75°	13	13
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1522.5
2.5°	1525.7
5°	1522.5
7.5°	1519.2
10°	1509.6
12.5°	1496.8
15°	1480.7
17.5°	1461.5
20°	1432.6
22.5°	1400.7
25°	1349.4
27.5°	1285.2
30°	1205.1
32.5°	1105.8
35°	987.1
37.5°	855.7
40°	721.1
42.5°	596.1
45°	477.6
47.5°	371.7
50°	282.0
52.5°	208.4
55°	150.6
57.5°	105.7
60°	76.9
62.5°	57.7
65°	41.7
67.5°	32.1
70°	22.5
72.5°	16.0
75°	12.8
77.5°	6.4
80°	6.4
82.5°	3.2
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)