

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: P696710

Luminaire Tested: **MRI-FEU4C-20-L930 F4X-W-X-H**

Issue Date: 08/03/2023



Test Information

Test Method: LM-79-08
Report Number: P696710
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-L930 F4X-W-X-H
Description: 4 INCH FAIL-SAFE MRI LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBWH TRIM
Light Source: -
Ballast/Driver: -

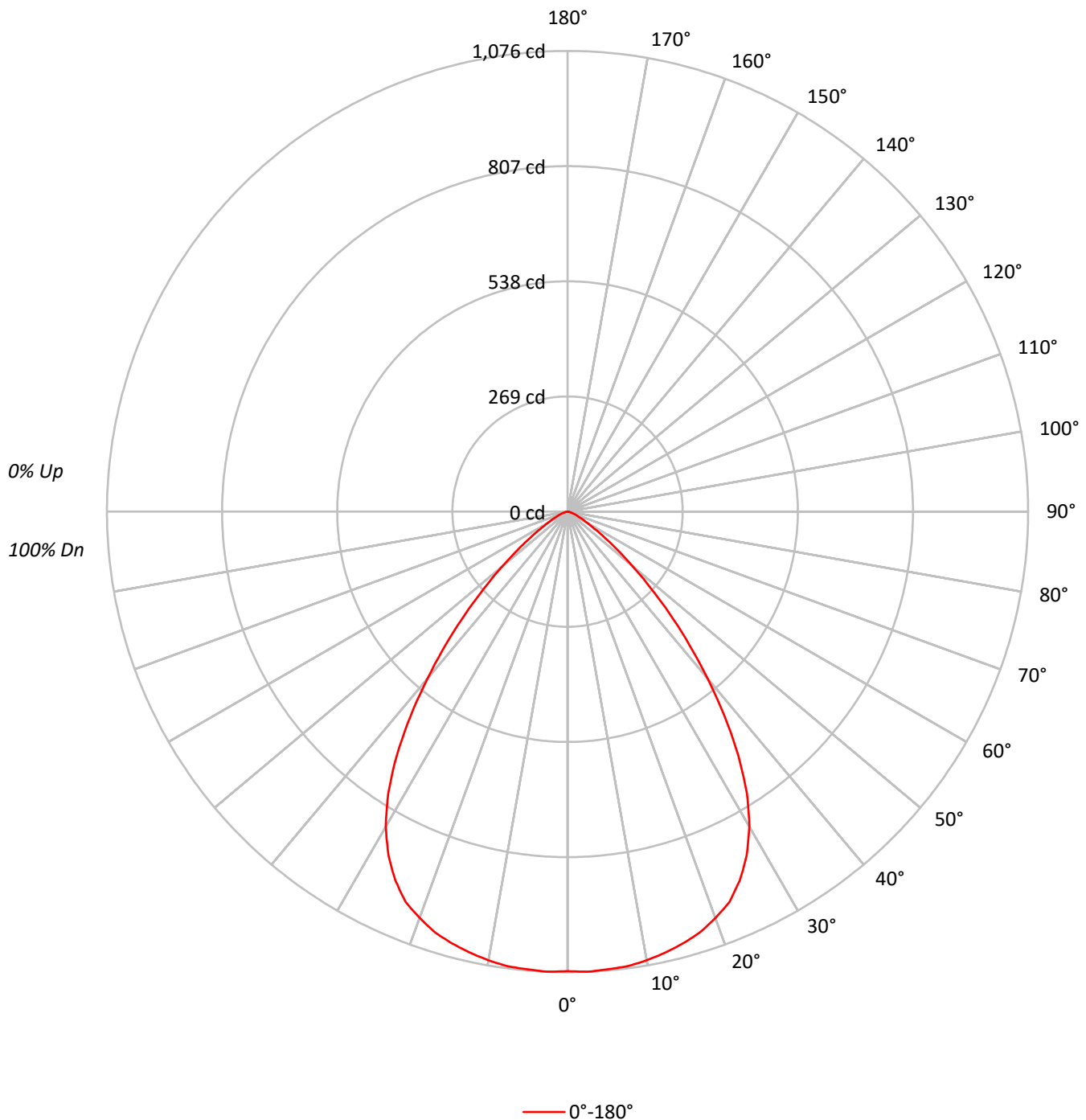
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1665.0 lumens
Efficiency: N/A
Efficacy: 76.4 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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	106	104		110	107	104	102		103	101	99		99	97	96		96	94	93
2	105	100	95	91		103	98	93	90		95	91	88		91	88	86		89	86	84
3	99	91	85	80		97	90	84	80		87	82	78		84	80	77		82	79	76
4	92	83	77	72		90	82	76	71		80	75	70		78	73	70		76	72	69
5	87	77	70	65		85	76	69	64		74	68	64		72	67	63		70	66	62
6	81	71	64	58		80	70	63	58		68	62	58		67	61	57		65	61	57
7	76	65	58	53		75	65	58	53		63	57	53		62	56	52		61	56	52
8	72	60	53	49		70	60	53	49		59	53	48		58	52	48		57	52	48
9	68	56	49	45		66	56	49	45		55	49	44		54	48	44		53	48	44
10	64	52	46	41		63	52	46	41		51	45	41		50	45	41		49	44	41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	131846
5°	132350
10°	132745
15°	132758
20°	132032
25°	128939
30°	120509
35°	104354
40°	81518
45°	58499
50°	37996
55°	22747
60°	13317
65°	8546
70°	5675
75°	4272
80°	3184
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	6.1
10°-20°	294.5	17.7
20°-30°	434.6	26.1
30°-40°	428.8	25.8
40°-50°	262.4	15.8
50°-60°	100.6	6.0
60°-70°	31.5	1.9
70°-80°	9.2	0.6
80°-90°	1.2	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°	831.2	49.9
0°-40°	1260.1	75.7
0°-60°	1623.1	97.5
0°-90°	1665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1665.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1073	
5°	1073	102
15°	1044	294
25°	951	435
35°	696	429
45°	337	262
55°	106	101
65°	29	31
75°	9	9
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1073.2
2.5°	1075.5
5°	1073.2
7.5°	1070.9
10°	1064.1
12.5°	1055.1
15°	1043.8
17.5°	1030.2
20°	1009.9
22.5°	987.4
25°	951.2
27.5°	905.9
30°	849.5
32.5°	779.5
35°	695.8
37.5°	603.2
40°	508.3
42.5°	420.2
45°	336.7
47.5°	262.0
50°	198.8
52.5°	146.9
55°	106.2
57.5°	74.5
60°	54.2
62.5°	40.7
65°	29.4
67.5°	22.6
70°	15.8
72.5°	11.3
75°	9.0
77.5°	4.5
80°	4.5
82.5°	2.3
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)