

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: P698004

Luminaire Tested: **MRI-FEU6C-20-L940 F6X-N-X-LI**

Issue Date: 08/03/2023



Test Information

Test Method: LM-79-08
Report Number: P698004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205310)
Test Lab: INNOVATION CENTER-P3
Issue Date: 08/03/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-FEU6C-20-L940 F6X-N-X-LI
Description: 6 INCH FAIL-SAFE MRI LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBNLI TRIM
Light Source: -
Ballast/Driver: -

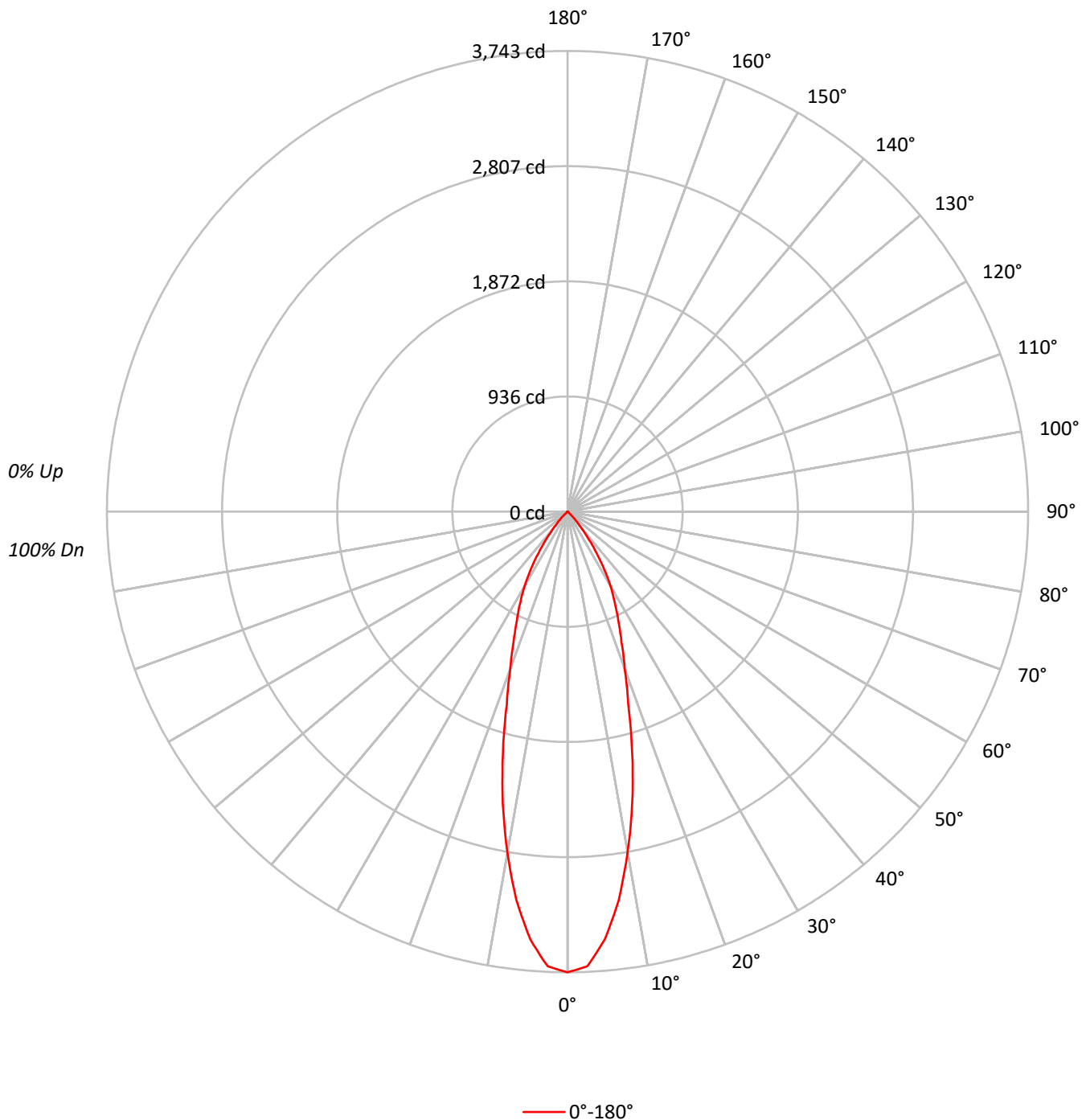
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1644.1 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.58
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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
RW	70	50	30	10	70	50	30	10	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	102	102	100
1	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	96	96	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	91	91	89
3	105	99	94	91	103	97	93	90	95	91	89	93	90	87	90	88	86	86	86	85
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	81	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	77	77	76
6	92	84	79	75	90	83	78	75	82	77	74	80	76	74	79	76	73	73	73	72
7	88	80	74	71	87	79	74	71	78	73	70	77	73	70	76	72	69	69	69	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	73	69	66	66	66	65
9	81	73	67	64	80	72	67	64	71	67	63	70	66	63	70	66	63	63	63	62
10	78	69	64	61	77	69	64	61	68	64	61	67	63	60	67	63	60	60	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	205192
5°	191888
10°	156499
15°	115165
20°	79375
25°	58933
30°	44266
35°	27606
40°	13397
45°	4597
50°	606
55°	459
60°	263
65°	311
70°	385
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.2	18.9
10°-20°	558.6	34.0
20°-30°	451.6	27.5
30°-40°	260.2	15.8
40°-50°	55.0	3.3
50°-60°	4.8	0.3
60°-70°	2.4	0.1
70°-80°	0.3	0.0
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°	1321.4	80.4
0°-40°	1581.6	96.2
0°-60°	1641.4	99.8
0°-90°	1644.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1644.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3743	
5°	3487	311
15°	2029	559
25°	974	452
35°	412	260
45°	59	55
55°	5	5
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3743.0
2.5°	3698.0
5°	3487.0
7.5°	3183.6
10°	2811.4
12.5°	2429.8
15°	2029.2
17.5°	1642.8
20°	1360.6
22.5°	1145.0
25°	974.3
27.5°	829.7
30°	699.3
32.5°	554.7
35°	412.5
37.5°	286.8
40°	187.2
42.5°	113.8
45°	59.3
47.5°	23.7
50°	7.1
52.5°	7.1
55°	4.8
57.5°	4.8
60°	2.4
62.5°	2.4
65°	2.4
67.5°	2.4
70°	2.4
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)