

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: P697794

Luminaire Tested: **MRI-FEU6C-20-L927 F6X-M-X-H**

Issue Date: 08/03/2023



Test Information

Test Method: LM-79-08
Report Number: P697794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203254)
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-L927 F6X-M-X-H
Description: 6 INCH FAIL-SAFE MRI LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBMH TRIM
Light Source: -
Ballast/Driver: -

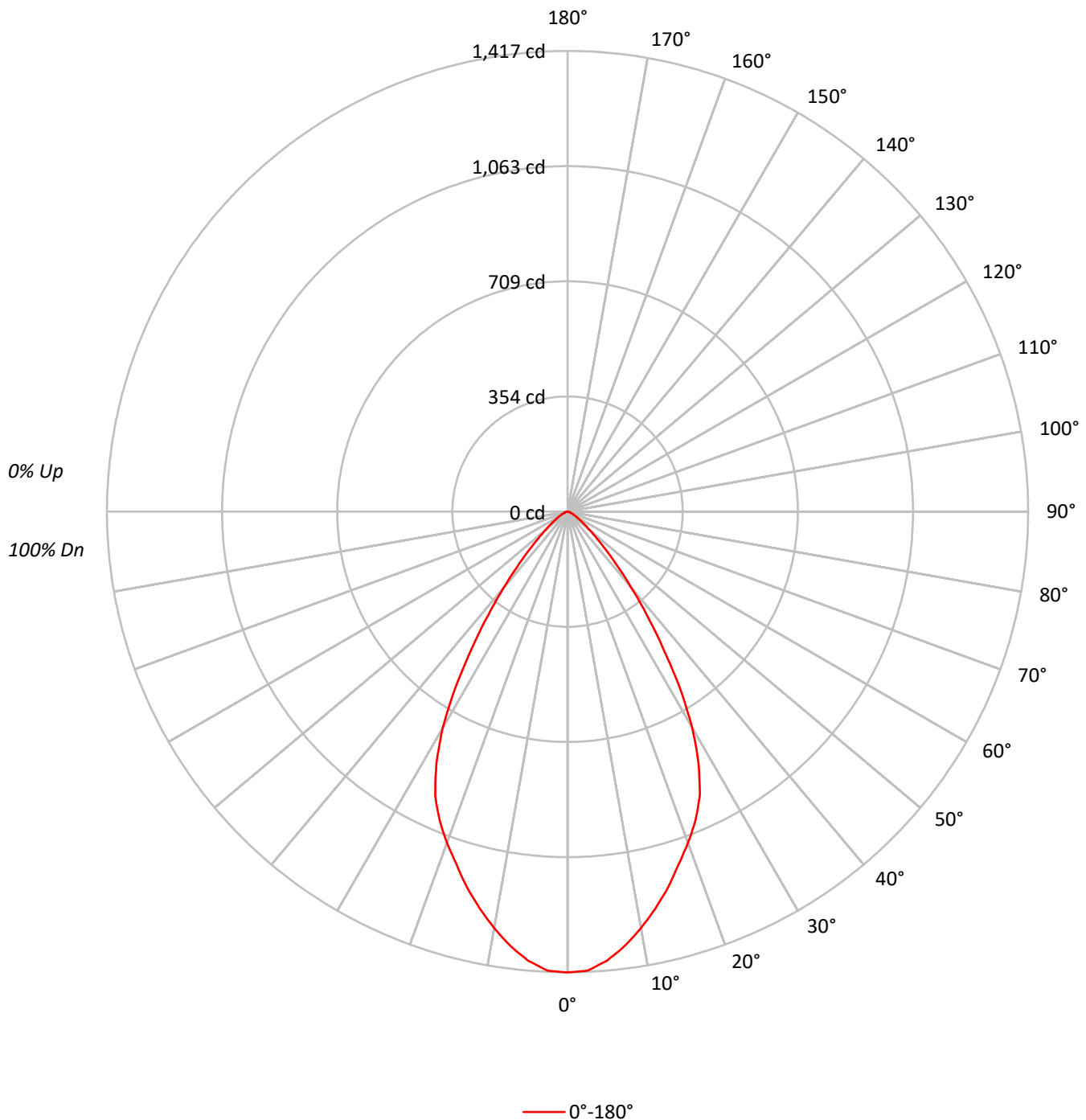
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1432.0 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' 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

TEST NUMBER: P697794
CATALOG NUMBER: MRI-FEU6C-20-L927 F6X-M-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P697794

CATALOG NUMBER: MRI-FEU6C-20-L927 F6X-M-X-H

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	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	93	105	100	96	92	97	93	90		94	91	88		91
3	101	94	88	84	99	92	87	84	90	86	82		87	84	81		85
4	95	87	81	76	93	86	80	76	84	79	75		82	78	74		80
5	90	81	75	70	88	80	74	70	78	73	69		76	72	68		75
6	85	75	69	64	83	75	69	64	73	68	64		72	67	63		70
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66
8	76	66	60	55	75	65	59	55	64	59	55		63	58	55		62
9	72	62	56	51	71	61	55	51	60	55	51		60	55	51		59
10	69	58	52	48	68	58	52	48	57	52	48		56	51	48		55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	77691
5°	76299
10°	72399
15°	67895
20°	63227
25°	58261
30°	48545
35°	34211
40°	21805
45°	13001
50°	7676
55°	4884
60°	3366
65°	2387
70°	1651
75°	1292
80°	631
85°	0



TEST NUMBER: P697794
 CATALOG NUMBER: MRI-FEU6C-20-L927 F6X-M-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	9.0
10°-20°	335.2	23.4
20°-30°	434.4	30.3
30°-40°	322.5	22.5
40°-50°	136.1	9.5
50°-60°	48.3	3.4
60°-70°	18.7	1.3
70°-80°	6.5	0.5
80°-90°	0.8	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°	899.1	62.8
0°-40°	1221.6	85.3
0°-60°	1406.1	98.2
0°-90°	1432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1432.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1417	
5°	1386	130
15°	1196	335
25°	963	434
35°	511	322
45°	168	136
55°	51	48
65°	18	19
75°	6	6
85°	0	1
90°	0	

TEST NUMBER: P697794

CATALOG NUMBER: MRI-FEU6C-20-L927 F6X-M-X-H

CANDELA DISTRIBUTION (FULL):

0°	
0°	1417.2
2.5°	1413.1
5°	1386.5
7.5°	1347.6
10°	1300.6
12.5°	1249.5
15°	1196.3
17.5°	1137.0
20°	1083.8
22.5°	1028.6
25°	963.2
27.5°	873.2
30°	766.9
32.5°	642.1
35°	511.2
37.5°	400.8
40°	304.7
42.5°	227.0
45°	167.7
47.5°	122.7
50°	90.0
52.5°	67.5
55°	51.1
57.5°	38.8
60°	30.7
62.5°	22.5
65°	18.4
67.5°	14.3
70°	10.3
72.5°	8.2
75°	6.1
77.5°	4.1
80°	2.0
82.5°	2.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)