

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: P698024

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

Issue Date: 08/03/2023



Test Information

Test Method: LM-79-08
Report Number: P698024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205209)
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-W-X-LI
Description: 6 INCH FAIL-SAFE MRI LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBWLI TRIM
Light Source: -
Ballast/Driver: -

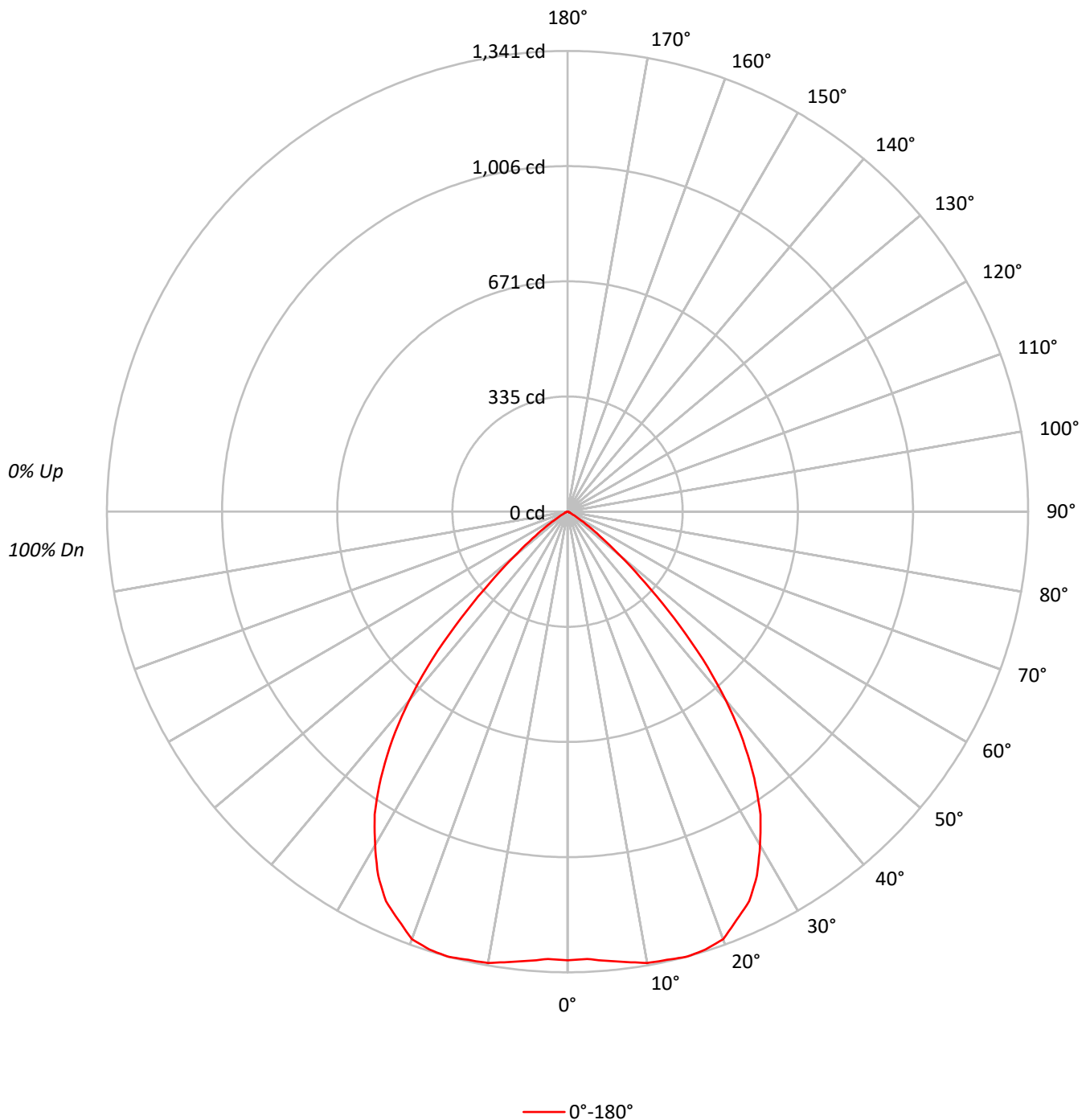
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2090.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
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: P698024
CATALOG NUMBER: MRI-FEU6C-20-L940 F6X-W-X-LI

Luminous Intensity Polar Plot





TEST NUMBER: P698024

CATALOG NUMBER: MRI-FEU6C-20-L940 F6X-W-X-LI

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	100		
1	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92		
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83		
3	100	92	87	82	97	91	86	81	88	84	80	86	82	79	83	80	77	76		
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69		
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63		
6	82	72	65	60	81	71	65	60	70	64	59	68	63	59	67	62	59	57		
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52		
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48		
9	69	57	51	46	67	57	50	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	47	43	64	53	47	42	52	46	42	51	46	42	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	71579
5°	72237
10°	74264
15°	76118
20°	77275
25°	75676
30°	70954
35°	63436
40°	51382
45°	33988
50°	17176
55°	7245
60°	2335
65°	921
70°	769
75°	508
80°	0
85°	0



TEST NUMBER: P698024
 CATALOG NUMBER: MRI-FEU6C-20-L940 F6X-W-X-LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	6.0
10°-20°	378.6	18.1
20°-30°	570.7	27.3
30°-40°	584.1	27.9
40°-50°	340.3	16.3
50°-60°	78.2	3.7
60°-70°	9.6	0.5
70°-80°	2.5	0.1
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°	1075.2	51.4
0°-40°	1659.4	79.4
0°-60°	2077.9	99.4
0°-90°	2090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2090.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1306	
5°	1313	126
15°	1341	379
25°	1251	571
35°	948	584
45°	438	340
55°	76	78
65°	7	10
75°	2	3
85°	0	0
90°	0	



TEST NUMBER: P698024
CATALOG NUMBER: MRI-FEU6C-20-L940 F6X-W-X-LI

CANDELA DISTRIBUTION (FULL):

0°	
0°	1305.7
2.5°	1303.3
5°	1312.7
7.5°	1322.2
10°	1334.1
12.5°	1336.4
15°	1341.2
17.5°	1336.4
20°	1324.6
22.5°	1286.7
25°	1251.1
27.5°	1194.3
30°	1120.9
32.5°	1045.0
35°	947.9
37.5°	838.8
40°	718.0
42.5°	582.9
45°	438.4
47.5°	305.6
50°	201.4
52.5°	128.0
55°	75.8
57.5°	40.3
60°	21.3
62.5°	11.8
65°	7.1
67.5°	7.1
70°	4.8
72.5°	2.4
75°	2.4
77.5°	2.4
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)