

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: P25971

Luminaire Tested: **F6MRI-40-18-120-W**

Test Date: 03/31/15



Test Information

Test Method: LM-79-08
Report Number: P25971
Test Lab: INNOVATION CENTER-P2
Test Date: 03/31/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: F6MRI-40-18-120-W
Description: FAILSAFE LED MRI DOWNLIGHT WITH WHITE PAINTED TRIM AND LW3
.06 LENS, SHINY SIDE UP
Light Source: (1) 4000K LED
Ballast/Driver: (1) ELECTRONIC DRIVER

Summary

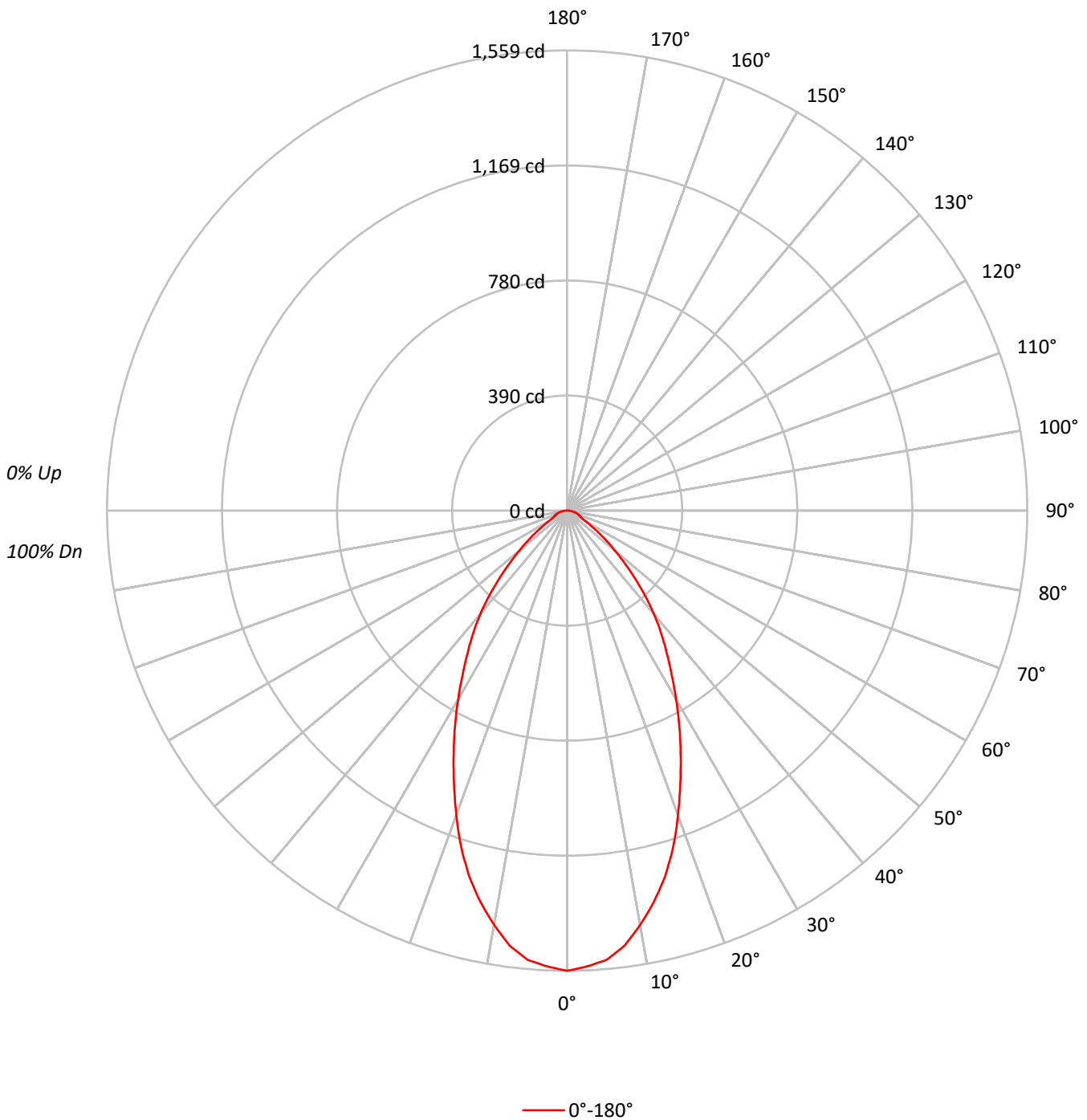
Lumens per Lamp: N/A
Luminaire Lumens: 1752.2 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.91
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

Input Watts (W): 25.5
Input Voltage (V): 120.04
Input Current (Ain): 0.41636
Voltage Rise (V): NR
Power Factor: 0.9792
Total Harmonic Distortion (THDi): 164%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
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	105	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55
7	77	66	59	54	75	65	58	53	64	58	53	62	57	53	61	56	53	51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	65	54	47	43	64	53	47	43	52	46	42	51	46	42	51	46	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	101710
5°	100068
10°	94402
15°	86589
20°	76232
25°	65506
30°	55596
35°	46751
40°	38921
45°	29894
50°	21517
55°	14673
60°	9395
65°	7564
70°	7821
75°	8066
80°	8266
85°	8234



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	8.1
10°-20°	356.5	20.3
20°-30°	417.7	23.8
30°-40°	368.3	21.0
40°-50°	251.7	14.4
50°-60°	118.8	6.8
60°-70°	51.1	2.9
70°-80°	33.6	1.9
80°-90°	12.0	0.7
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°	916.8	52.3
0°-40°	1285.0	73.3
0°-60°	1655.5	94.5
0°-90°	1752.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1752.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1559	
5°	1528	143
15°	1282	356
25°	910	418
35°	587	368
45°	324	252
55°	129	119
65°	49	51
75°	32	34
85°	11	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1559
2.5°	1546
5°	1528
7.5°	1487
10°	1425
12.5°	1358
15°	1282
17.5°	1195
20°	1098
22.5°	1001
25°	910
27.5°	823
30°	738
32.5°	659
35°	587
37.5°	523
40°	457
42.5°	390
45°	324
47.5°	265
50°	212
52.5°	167
55°	129
57.5°	97
60°	72
62.5°	56
65°	49
67.5°	45
70°	41
72.5°	37
75°	32
77.5°	27
80°	22
82.5°	17
85°	11
87.5°	5
90°	0

(END OF REPORT)