

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: P573988

Luminaire Tested: **FLD6C-02-D010 FEU6C-X-90-40 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203254)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-02-D010 FEU6C-X-90-40 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

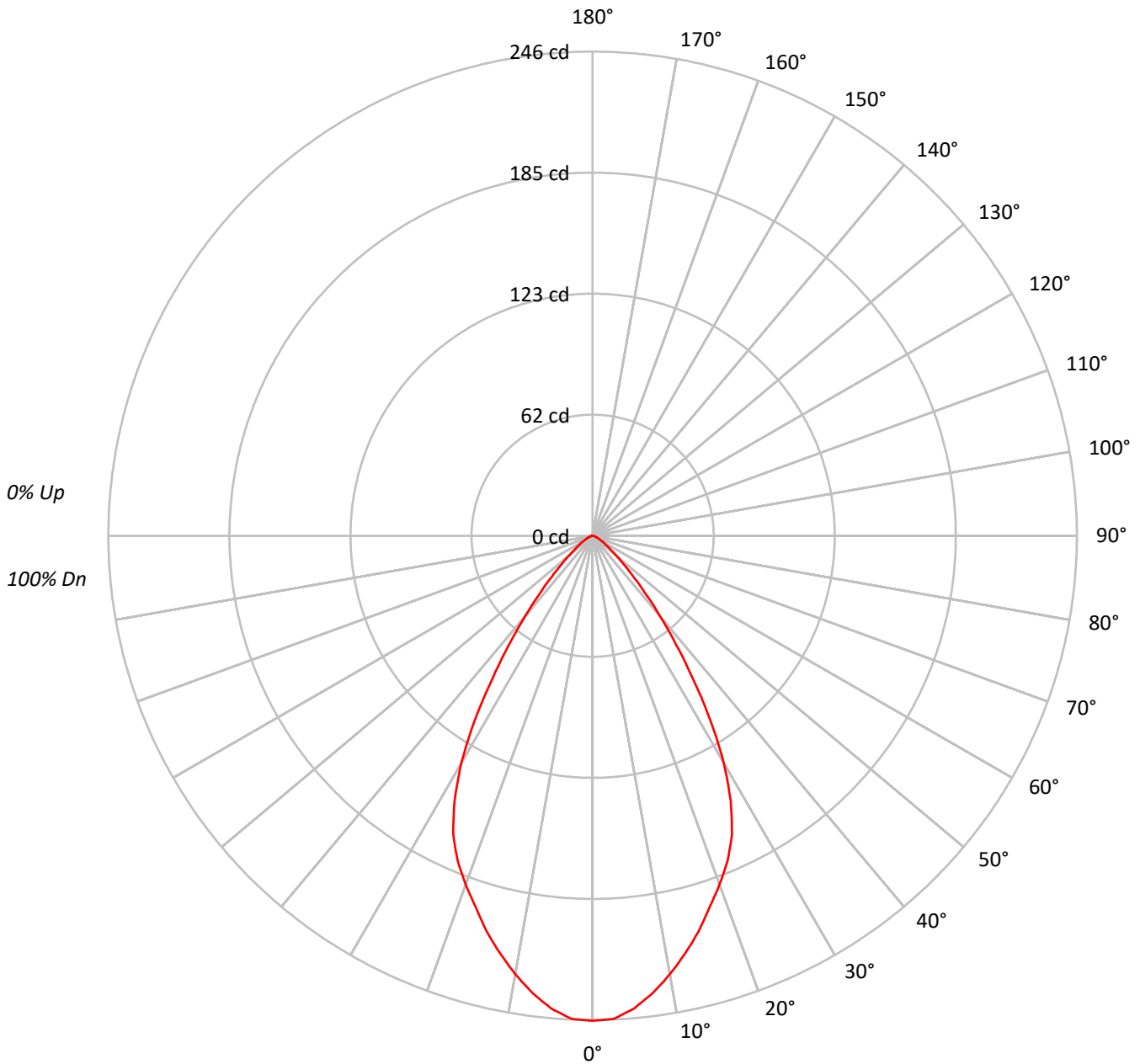
Lumens per Lamp: N/A
Luminaire Lumens: 249.0 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 3.5
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				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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	113	110	107	105	111	108	105	103	104	102	100	100	98	97	97	95	94	92				92
2	107	102	97	93	105	100	96	92	97	93	90	93	91	88	91	89	87	85				85
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78				78
4	95	87	81	76	93	86	80	76	84	79	75	82	78	74	80	76	73	72				72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66				66
6	85	75	69	64	83	75	68	64	73	68	64	72	67	63	70	66	63	61				61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57				57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53				53
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49				49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46				46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13508
5°	13268
10°	12592
15°	11805
20°	10997
25°	10132
30°	8438
35°	5949
40°	3793
45°	2264
50°	1330
55°	851
60°	581
65°	415
70°	289
75°	233
80°	126
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.5	9.0
10°-20°	58.3	23.4
20°-30°	75.5	30.3
30°-40°	56.1	22.5
40°-50°	23.7	9.5
50°-60°	8.4	3.4
60°-70°	3.2	1.3
70°-80°	1.1	0.5
80°-90°	0.2	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°	156.3	62.8
0°-40°	212.4	85.3
0°-60°	244.5	98.2
0°-90°	249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	249.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	246	
5°	241	23
15°	208	58
25°	168	76
35°	89	56
45°	29	24
55°	9	8
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	246.4
2.5°	245.7
5°	241.1
7.5°	234.3
10°	226.2
12.5°	217.3
15°	208.0
17.5°	197.7
20°	188.5
22.5°	178.9
25°	167.5
27.5°	151.8
30°	133.3
32.5°	111.6
35°	88.9
37.5°	69.7
40°	53.0
42.5°	39.5
45°	29.2
47.5°	21.3
50°	15.6
52.5°	11.7
55°	8.9
57.5°	6.8
60°	5.3
62.5°	3.9
65°	3.2
67.5°	2.5
70°	1.8
72.5°	1.4
75°	1.1
77.5°	0.7
80°	0.4
82.5°	0.4
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)