

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: P574408

Luminaire Tested: **FLD6C-08-D010 FEU6C-X-90-27 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P574408
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-08-D010 FEU6C-X-90-27 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

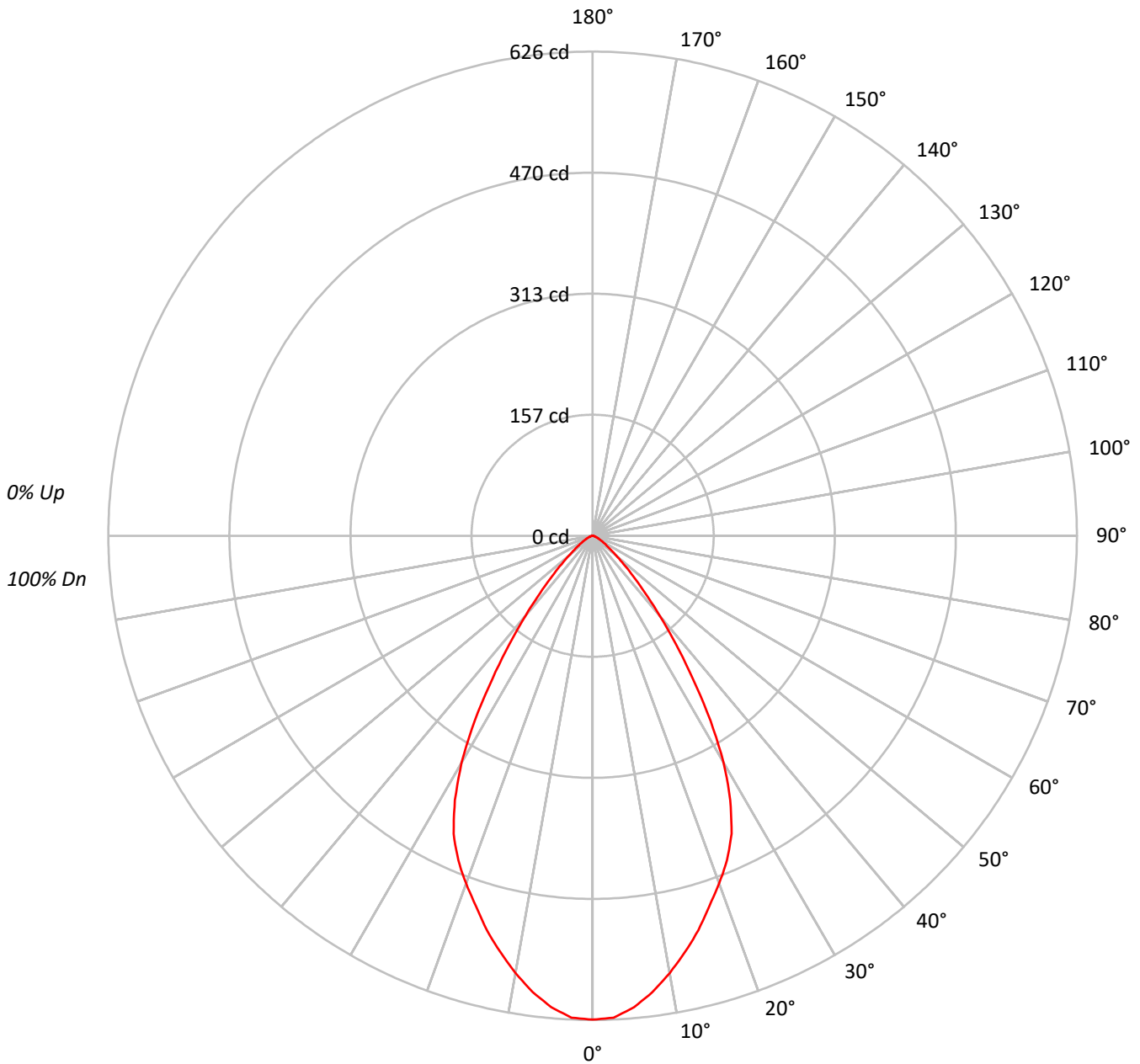
Lumens per Lamp: N/A
Luminaire Lumens: 632.0 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.87
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				
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	99	97	97	95	94	92			92
2	107	102	97	93	105	100	96	92	97	93	90	94	91	88	91	89	87	85			85
3	101	94	88	84	99	92	88	84	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	69	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°	34290
5°	33673
10°	31952
15°	29966
20°	27903
25°	25713
30°	21427
35°	15098
40°	9625
45°	5737
50°	3386
55°	2150
60°	1480
65°	1051
70°	721
75°	572
80°	284
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	9.0
10°-20°	147.9	23.4
20°-30°	191.7	30.3
30°-40°	142.3	22.5
40°-50°	60.1	9.5
50°-60°	21.3	3.4
60°-70°	8.2	1.3
70°-80°	2.8	0.4
80°-90°	0.4	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°	396.8	62.8
0°-40°	539.2	85.3
0°-60°	620.5	98.2
0°-90°	632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	632.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	626	
5°	612	57
15°	528	148
25°	425	192
35°	226	142
45°	74	60
55°	22	21
65°	8	8
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	625.5
2.5°	623.6
5°	611.9
7.5°	594.8
10°	574.0
12.5°	551.4
15°	528.0
17.5°	501.8
20°	478.3
22.5°	454.0
25°	425.1
27.5°	385.4
30°	338.5
32.5°	283.4
35°	225.6
37.5°	176.9
40°	134.5
42.5°	100.2
45°	74.0
47.5°	54.1
50°	39.7
52.5°	29.8
55°	22.5
57.5°	17.1
60°	13.5
62.5°	9.9
65°	8.1
67.5°	6.3
70°	4.5
72.5°	3.6
75°	2.7
77.5°	1.8
80°	0.9
82.5°	0.9
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)