

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: P578548

Luminaire Tested: **FLD6C-60-D010 FEU6C-X-90-50 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P578548
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-60-D010 FEU6C-X-90-50 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

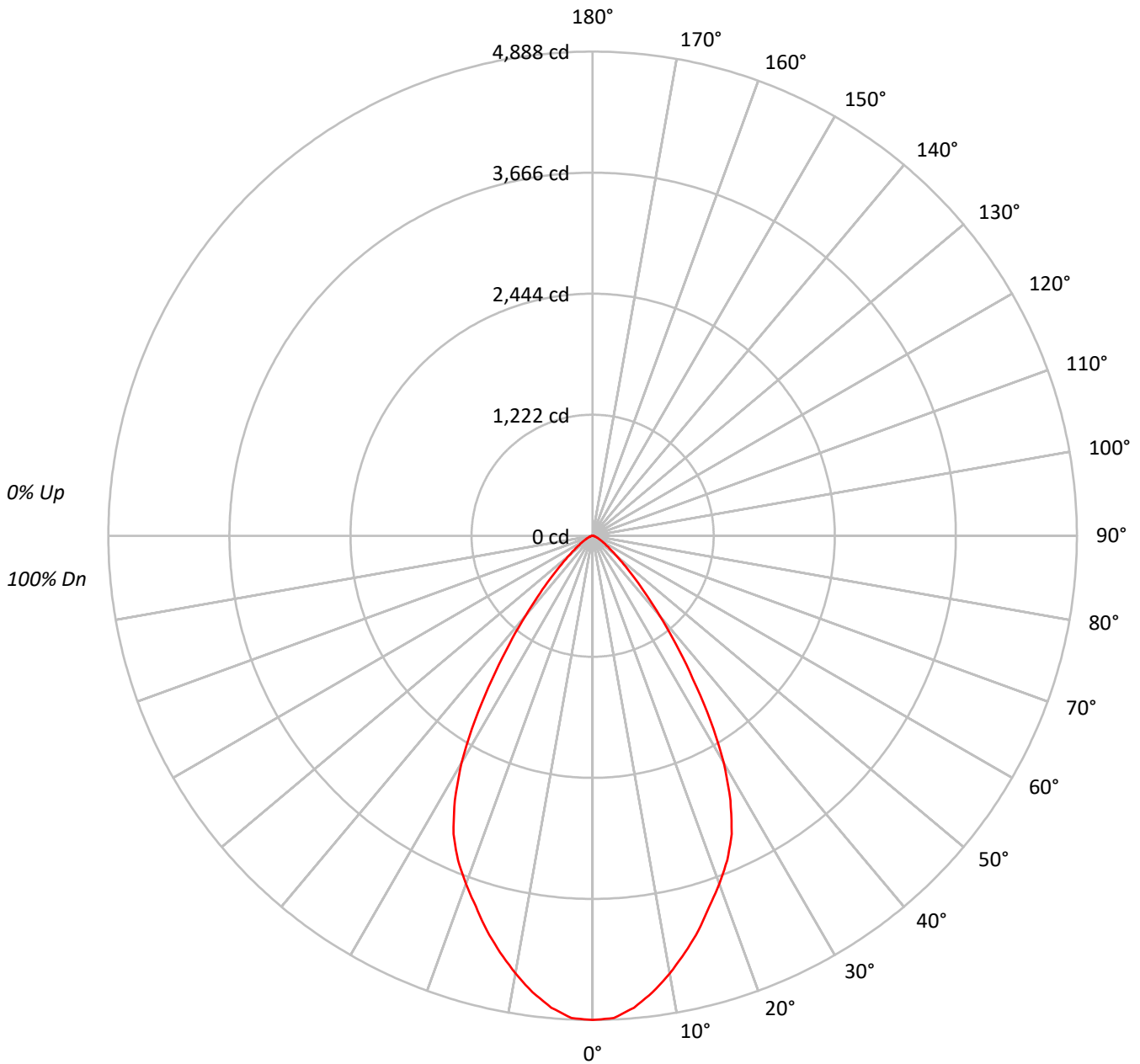
Lumens per Lamp: N/A
Luminaire Lumens: 4939.1 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	267956
5°	263157
10°	249711
15°	234167
20°	218081
25°	200939
30°	167424
35°	118005
40°	75205
45°	44850
50°	26472
55°	16840
60°	11600
65°	8237
70°	5674
75°	4490
80°	2210
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.9	9.0
10°-20°	1156.2	23.4
20°-30°	1498.1	30.3
30°-40°	1112.2	22.5
40°-50°	469.5	9.5
50°-60°	166.7	3.4
60°-70°	64.4	1.3
70°-80°	22.3	0.5
80°-90°	2.9	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°	3101.1	62.8
0°-40°	4213.3	85.3
0°-60°	4849.5	98.2
0°-90°	4939.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4939.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4888	
5°	4782	447
15°	4126	1156
25°	3322	1498
35°	1763	1112
45°	578	470
55°	176	167
65°	64	64
75°	21	22
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4887.9
2.5°	4873.7
5°	4782.1
7.5°	4647.9
10°	4485.9
12.5°	4309.4
15°	4126.0
17.5°	3921.6
20°	3738.2
22.5°	3547.8
25°	3322.0
27.5°	3011.6
30°	2644.9
32.5°	2214.6
35°	1763.3
37.5°	1382.5
40°	1050.9
42.5°	782.8
45°	578.5
47.5°	423.1
50°	310.4
52.5°	232.7
55°	176.2
57.5°	133.9
60°	105.8
62.5°	77.7
65°	63.5
67.5°	49.3
70°	35.4
72.5°	28.1
75°	21.2
77.5°	14.2
80°	7.0
82.5°	7.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)