

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: P578438

Luminaire Tested: **FLD6C-60-D010 FEU6C-X-90-35 F6X-M-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P578438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205108)
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-90-35 F6X-M-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBMLI TRIM

Light Source: -
Ballast/Driver: -

Summary

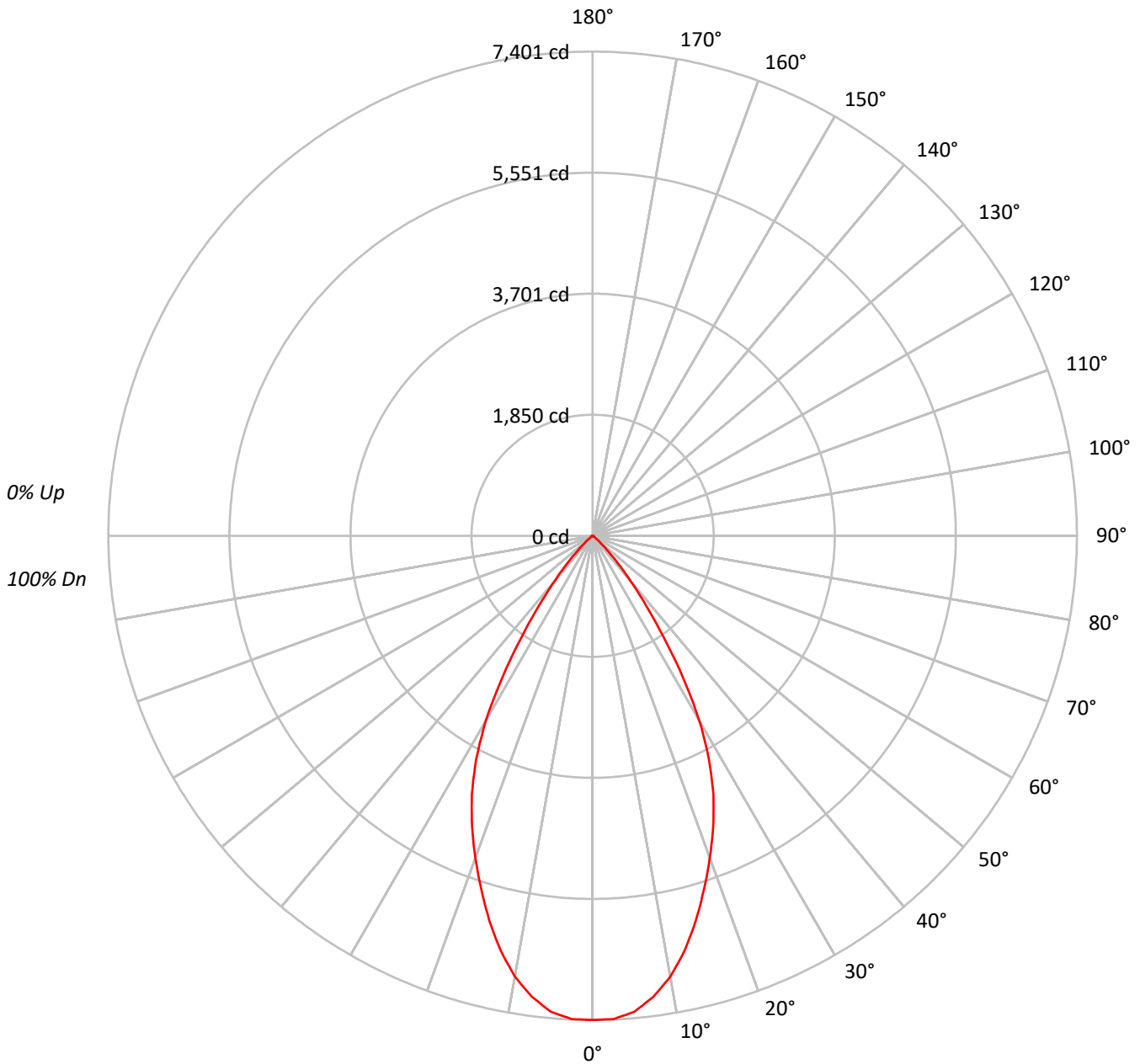
Lumens per Lamp: N/A
Luminaire Lumens: 5913.9 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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									
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	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94																			
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88																			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82																			
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76																			
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71																			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																			
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63																			
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	405730
5°	401870
10°	380810
15°	345740
20°	305512
25°	264124
30°	206462
35°	126612
40°	64986
45°	25817
50°	8384
55°	2886
60°	2478
65°	1972
70°	1218
75°	1610
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.8	11.5
10°-20°	1697.5	28.7
20°-30°	1973.2	33.4
30°-40°	1208.3	20.4
40°-50°	300.0	5.1
50°-60°	35.1	0.6
60°-70°	13.1	0.2
70°-80°	5.0	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°	4352.5	73.6
0°-40°	5560.8	94.0
0°-60°	5895.9	99.7
0°-90°	5913.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5913.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7401	
5°	7303	682
15°	6092	1697
25°	4367	1973
35°	1892	1208
45°	333	300
55°	30	35
65°	15	13
75°	8	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7401.1
2.5°	7393.5
5°	7302.8
7.5°	7105.9
10°	6841.0
12.5°	6493.0
15°	6091.9
17.5°	5660.5
20°	5236.9
22.5°	4812.9
25°	4366.6
27.5°	3851.9
30°	3261.6
32.5°	2573.0
35°	1891.9
37.5°	1331.8
40°	908.1
42.5°	567.5
45°	333.0
47.5°	189.2
50°	98.3
52.5°	45.5
55°	30.2
57.5°	22.6
60°	22.6
62.5°	15.2
65°	15.2
67.5°	7.6
70°	7.6
72.5°	7.6
75°	7.6
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)