

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: P575938

Luminaire Tested: **FLD6C-20-D010 FEU6C-X-90-27 F6X-N-X-LI**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P575938  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205310)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6C-20-D010 FEU6C-X-90-27 F6X-N-X-LI  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBNLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

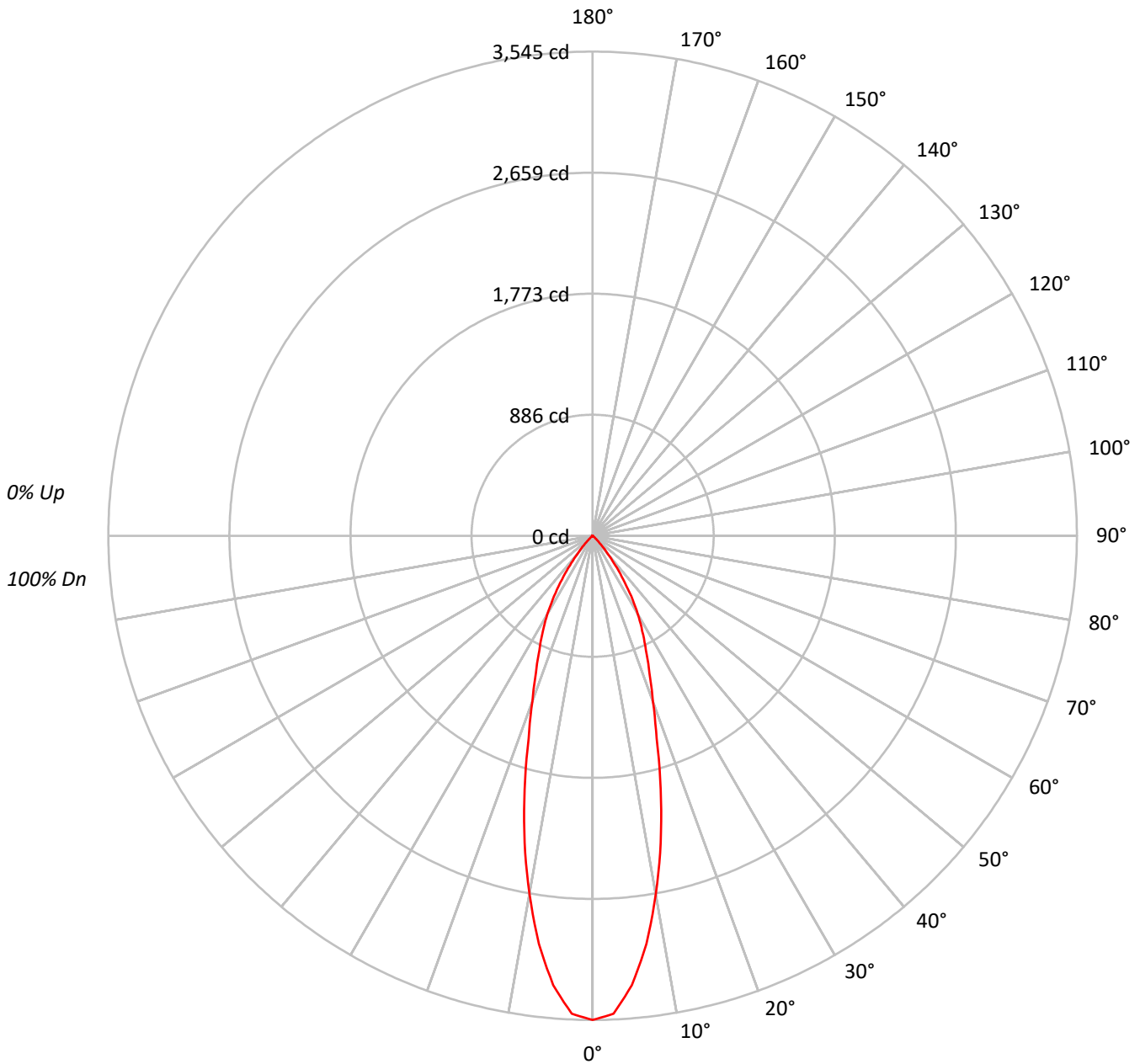
Lumens per Lamp: N/A  
Luminaire Lumens: 1557.0 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.58  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.8  
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									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	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	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	96	95																												
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89																												
3	105	99	94	91	103	97	93	90	95	91	89	93	90	87	90	88	86	85																												
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80																												
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76																												
6	92	84	79	75	90	83	78	75	82	77	74	80	76	74	79	76	73	72																												
7	88	80	74	71	87	79	74	71	78	73	70	77	73	70	76	72	69	68																												
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	73	69	66	65																												
9	81	73	67	64	80	72	67	64	71	67	63	70	66	63	70	66	63	62																												
10	78	69	64	61	77	69	64	61	68	64	61	67	63	60	67	63	60	59																												

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	194332
5°	181735
10°	148216
15°	109070
20°	75175
25°	55812
30°	41924
35°	26140
40°	12688
45°	4357
50°	571
55°	430
60°	252
65°	298
70°	369
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.7	18.9
10°-20°	529.0	34.0
20°-30°	427.7	27.5
30°-40°	246.4	15.8
40°-50°	52.1	3.3
50°-60°	4.5	0.3
60°-70°	2.3	0.1
70°-80°	0.3	0.0
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°	1251.5	80.4
0°-40°	1497.9	96.2
0°-60°	1554.5	99.8
0°-90°	1557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1557.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3545	
5°	3302	295
15°	1922	529
25°	923	428
35°	391	246
45°	56	52
55°	4	4
65°	2	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3544.9
2.5°	3502.3
5°	3302.5
7.5°	3015.1
10°	2662.6
12.5°	2301.2
15°	1921.8
17.5°	1555.8
20°	1288.6
22.5°	1084.4
25°	922.7
27.5°	785.8
30°	662.3
32.5°	525.4
35°	390.6
37.5°	271.6
40°	177.3
42.5°	107.8
45°	56.2
47.5°	22.4
50°	6.7
52.5°	6.7
55°	4.5
57.5°	4.5
60°	2.3
62.5°	2.3
65°	2.3
67.5°	2.3
70°	2.3
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)