

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: P578058

Luminaire Tested: **FLD6C-55-D010 FEU6C-X-90-27 F6X-W-X-LI**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P578058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205209)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6C-55-D010 FEU6C-X-90-27 F6X-W-X-LI  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

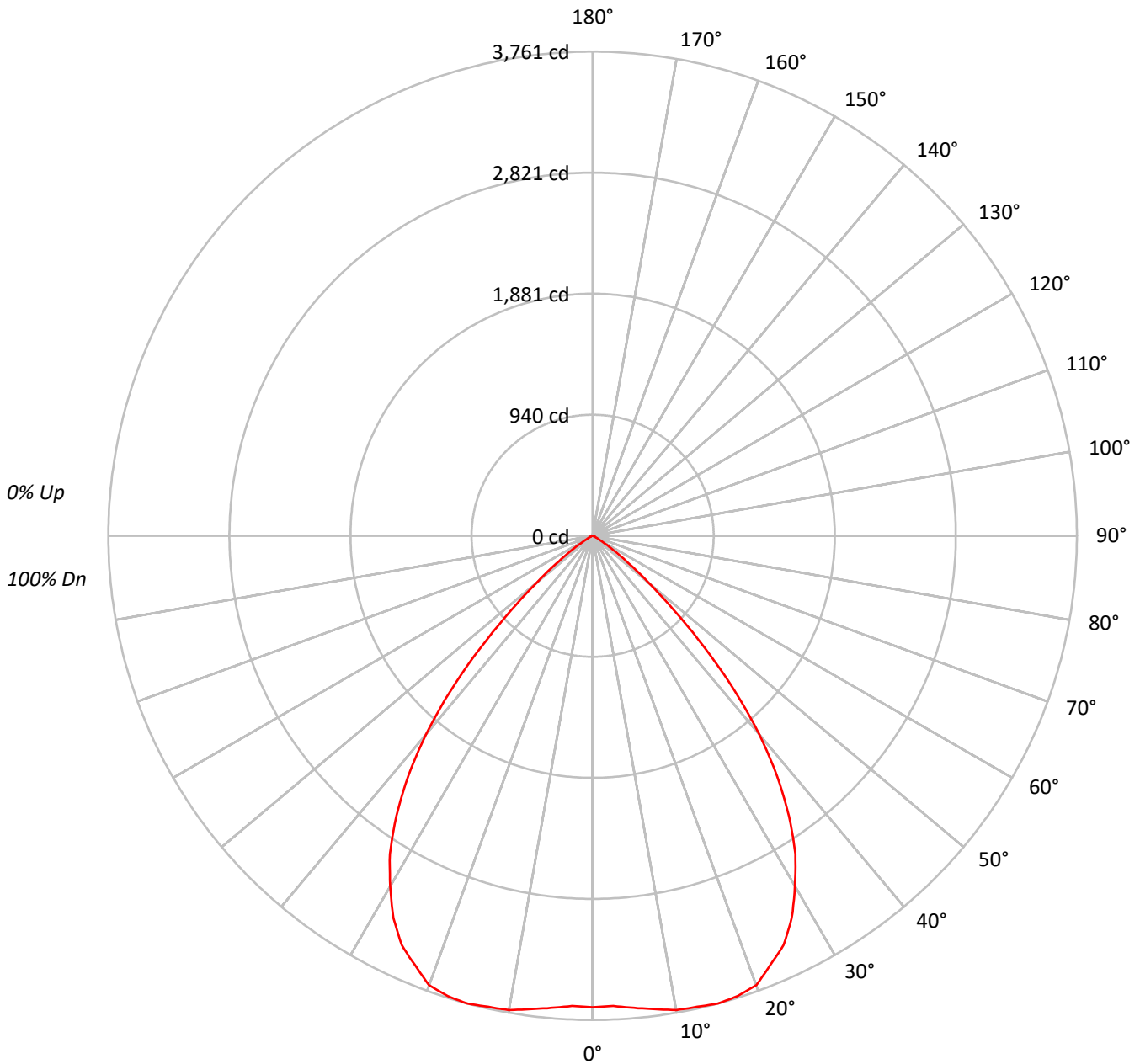
Lumens per Lamp: N/A  
Luminaire Lumens: 5861.0 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 63.9  
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									100																			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92									92																			
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83									83																			
3	100	92	87	82	97	91	86	81	88	84	80	86	82	79	83	80	77	76									76																			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69									69																			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63									63																			
6	82	72	65	60	81	71	65	60	70	64	59	68	63	59	67	62	59	57									57																			
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52									52																			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48									48																			
9	69	57	51	46	67	57	50	46	56	50	46	55	50	46	54	49	46	44									44																			
10	65	54	47	43	64	53	47	42	52	46	42	51	46	42	51	46	42	41									41																			

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

	0°
0°	200724
5°	202586
10°	208252
15°	213463
20°	216704
25°	212226
30°	198967
35°	177888
40°	144084
45°	95312
50°	48178
55°	20329
60°	6546
65°	2568
70°	2148
75°	1419
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.2	6.0
10°-20°	1061.7	18.1
20°-30°	1600.4	27.3
30°-40°	1638.1	27.9
40°-50°	954.3	16.3
50°-60°	219.3	3.7
60°-70°	26.9	0.5
70°-80°	7.1	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°	3015.3	51.4
0°-40°	4653.4	79.4
0°-60°	5827.0	99.4
0°-90°	5861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5861.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3662	
5°	3681	353
15°	3761	1062
25°	3509	1600
35°	2658	1638
45°	1229	954
55°	213	219
65°	20	27
75°	7	7
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3661.5
2.5°	3654.8
5°	3681.4
7.5°	3707.9
10°	3741.1
12.5°	3747.8
15°	3761.2
17.5°	3747.8
20°	3714.6
22.5°	3608.2
25°	3508.6
27.5°	3349.2
30°	3143.2
32.5°	2930.6
35°	2658.1
37.5°	2352.3
40°	2013.4
42.5°	1634.7
45°	1229.4
47.5°	857.1
50°	564.9
52.5°	358.9
55°	212.7
57.5°	113.0
60°	59.7
62.5°	33.2
65°	19.8
67.5°	19.8
70°	13.4
72.5°	6.7
75°	6.7
77.5°	6.7
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)