

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: P578628

Luminaire Tested: **FLD6C-65-D010 FEU6C-X-90-27 F6X-N-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P578628  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203666)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6C-65-D010 FEU6C-X-90-27 F6X-N-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

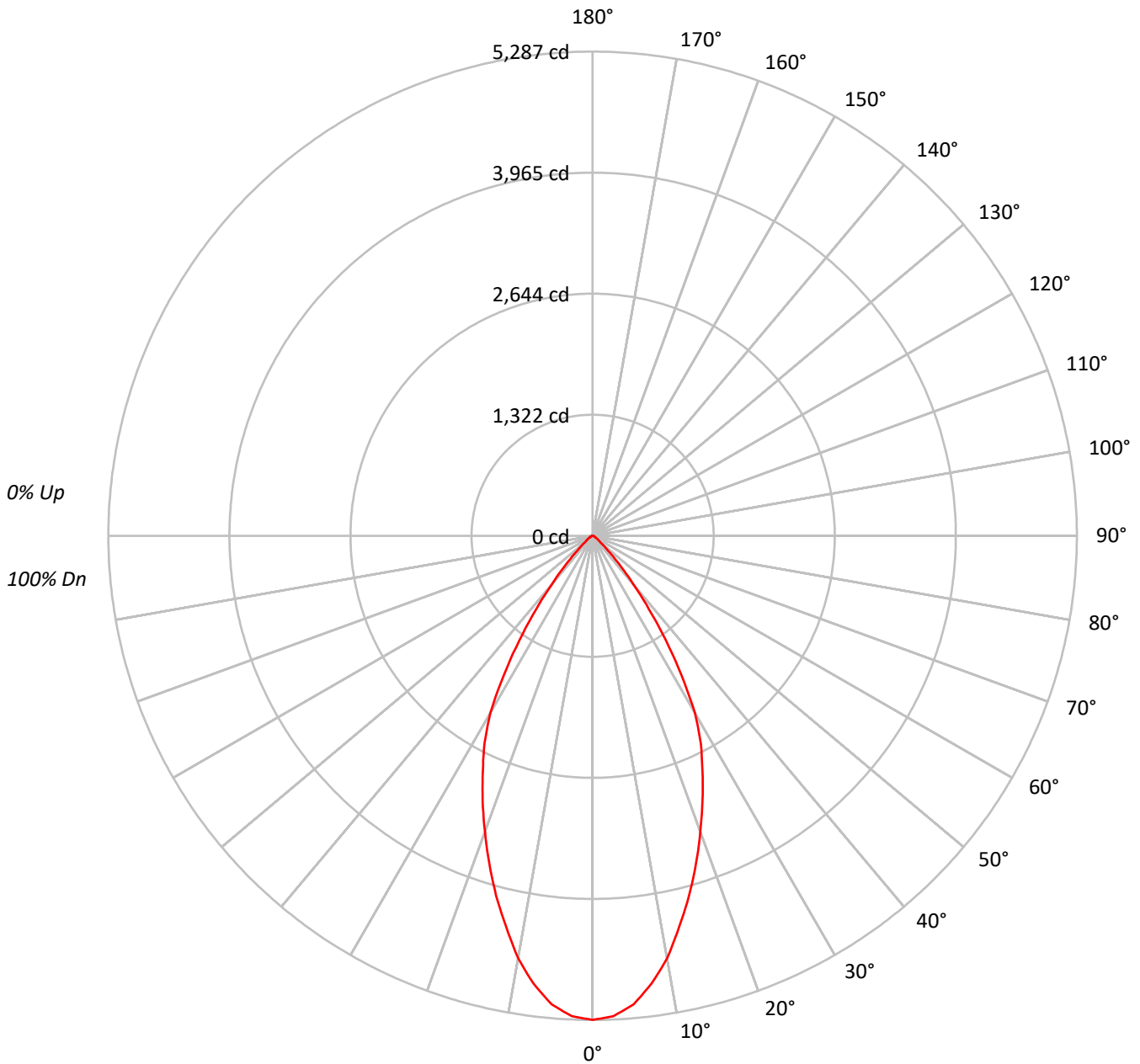
Lumens per Lamp: N/A  
Luminaire Lumens: 4124.0 lumens  
Efficiency: N/A  
Efficacy: 57.0 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 72.4  
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	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87																			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81																			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75																			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70																			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65																			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58																			
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55	54																			
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51																			

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

	0°
0°	289812
5°	282637
10°	260795
15°	230892
20°	200480
25°	171476
30°	141376
35°	93097
40°	50044
45°	22157
50°	8981
55°	6480
60°	4112
65°	2945
70°	2420
75°	1610
80°	2399
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.4	11.5
10°-20°	1133.7	27.5
20°-30°	1298.8	31.5
30°-40°	872.6	21.2
40°-50°	249.3	6.0
50°-60°	61.0	1.5
60°-70°	23.2	0.6
70°-80°	9.0	0.2
80°-90°	1.0	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°	2907.8	70.5
0°-40°	3780.4	91.7
0°-60°	4090.8	99.2
0°-90°	4124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4124.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5287	
5°	5136	475
15°	4068	1134
25°	2835	1299
35°	1391	873
45°	286	249
55°	68	61
65°	23	23
75°	8	9
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5286.6
2.5°	5249.0
5°	5136.1
7.5°	4933.0
10°	4685.0
12.5°	4368.9
15°	4068.3
17.5°	3752.5
20°	3436.5
22.5°	3135.8
25°	2834.9
27.5°	2556.7
30°	2233.4
32.5°	1804.7
35°	1391.1
37.5°	1015.1
40°	699.3
42.5°	458.7
45°	285.8
47.5°	172.9
50°	105.3
52.5°	82.7
55°	67.8
57.5°	52.7
60°	37.5
62.5°	30.0
65°	22.7
67.5°	15.1
70°	15.1
72.5°	7.6
75°	7.6
77.5°	7.6
80°	7.6
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)