

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: P578688

Luminaire Tested: **FLD6C-65-D010 FEU6C-X-90-30 F6X-N-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P578688  
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-90-30 F6X-N-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

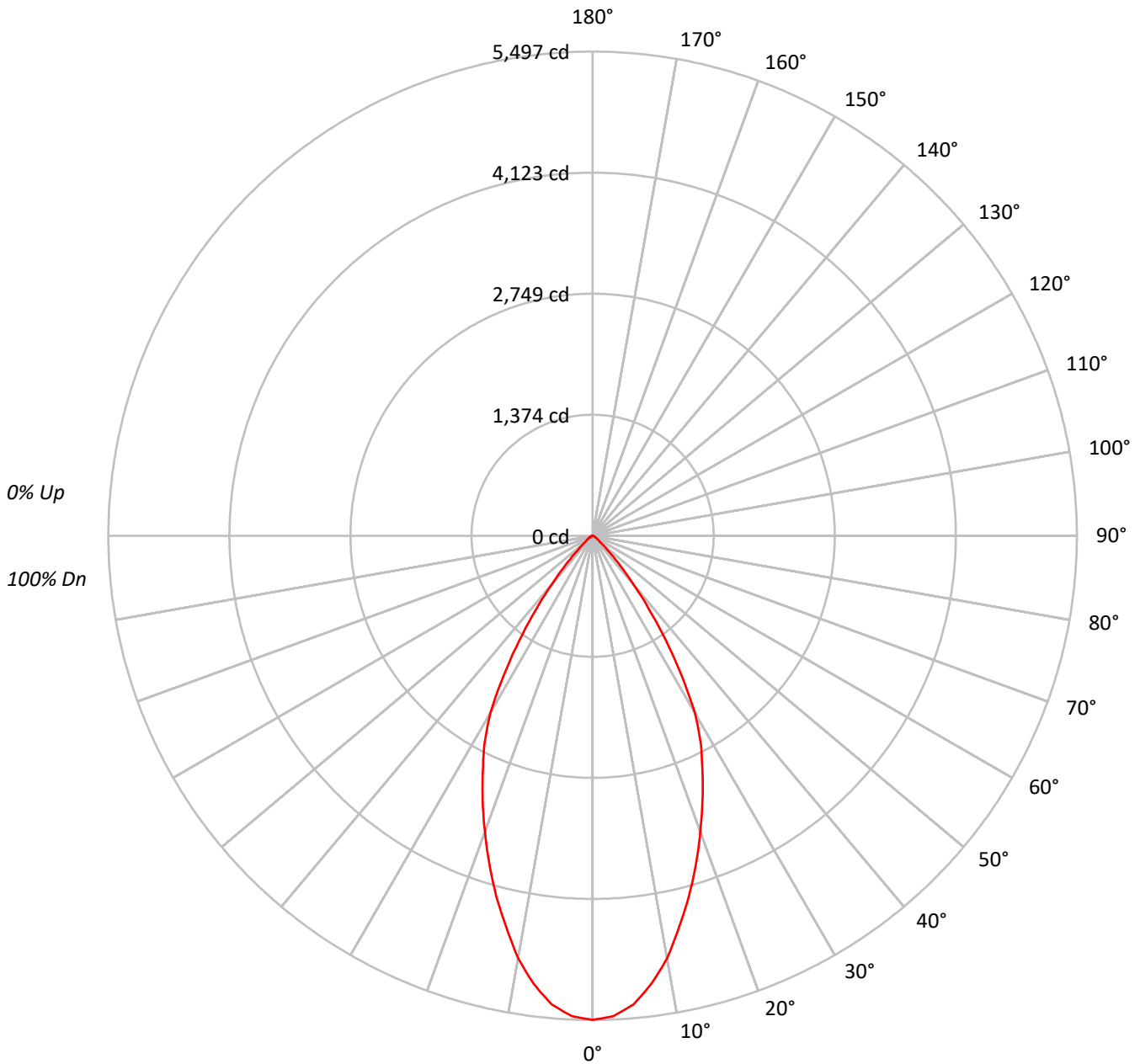
Lumens per Lamp: N/A  
Luminaire Lumens: 4288.0 lumens  
Efficiency: N/A  
Efficacy: 59.2 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 72.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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°	301336
5°	293874
10°	271165
15°	240075
20°	208449
25°	178299
30°	146997
35°	96798
40°	52040
45°	23041
50°	9339
55°	6738
60°	4276
65°	3061
70°	2516
75°	1673
80°	2494
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	494.3	11.5
10°-20°	1178.8	27.5
20°-30°	1350.4	31.5
30°-40°	907.3	21.2
40°-50°	259.2	6.0
50°-60°	63.4	1.5
60°-70°	24.1	0.6
70°-80°	9.4	0.2
80°-90°	1.1	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°	3023.5	70.5
0°-40°	3930.8	91.7
0°-60°	4253.5	99.2
0°-90°	4288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4288.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5497	
5°	5340	494
15°	4230	1179
25°	2948	1350
35°	1446	907
45°	297	259
55°	70	63
65°	24	24
75°	8	9
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5496.8
2.5°	5457.7
5°	5340.3
7.5°	5129.1
10°	4871.3
12.5°	4542.7
15°	4230.1
17.5°	3901.8
20°	3573.1
22.5°	3260.5
25°	2947.7
27.5°	2658.4
30°	2322.2
32.5°	1876.5
35°	1446.4
37.5°	1055.5
40°	727.2
42.5°	476.9
45°	297.2
47.5°	179.8
50°	109.5
52.5°	85.9
55°	70.5
57.5°	54.8
60°	39.0
62.5°	31.2
65°	23.6
67.5°	15.7
70°	15.7
72.5°	7.9
75°	7.9
77.5°	7.9
80°	7.9
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)