

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: P579608

Luminaire Tested: **FLD6C-80-D010 FEU6C-X-90-30 F6X-W-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P579608  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P202739)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6C-80-D010 FEU6C-X-90-30 F6X-W-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

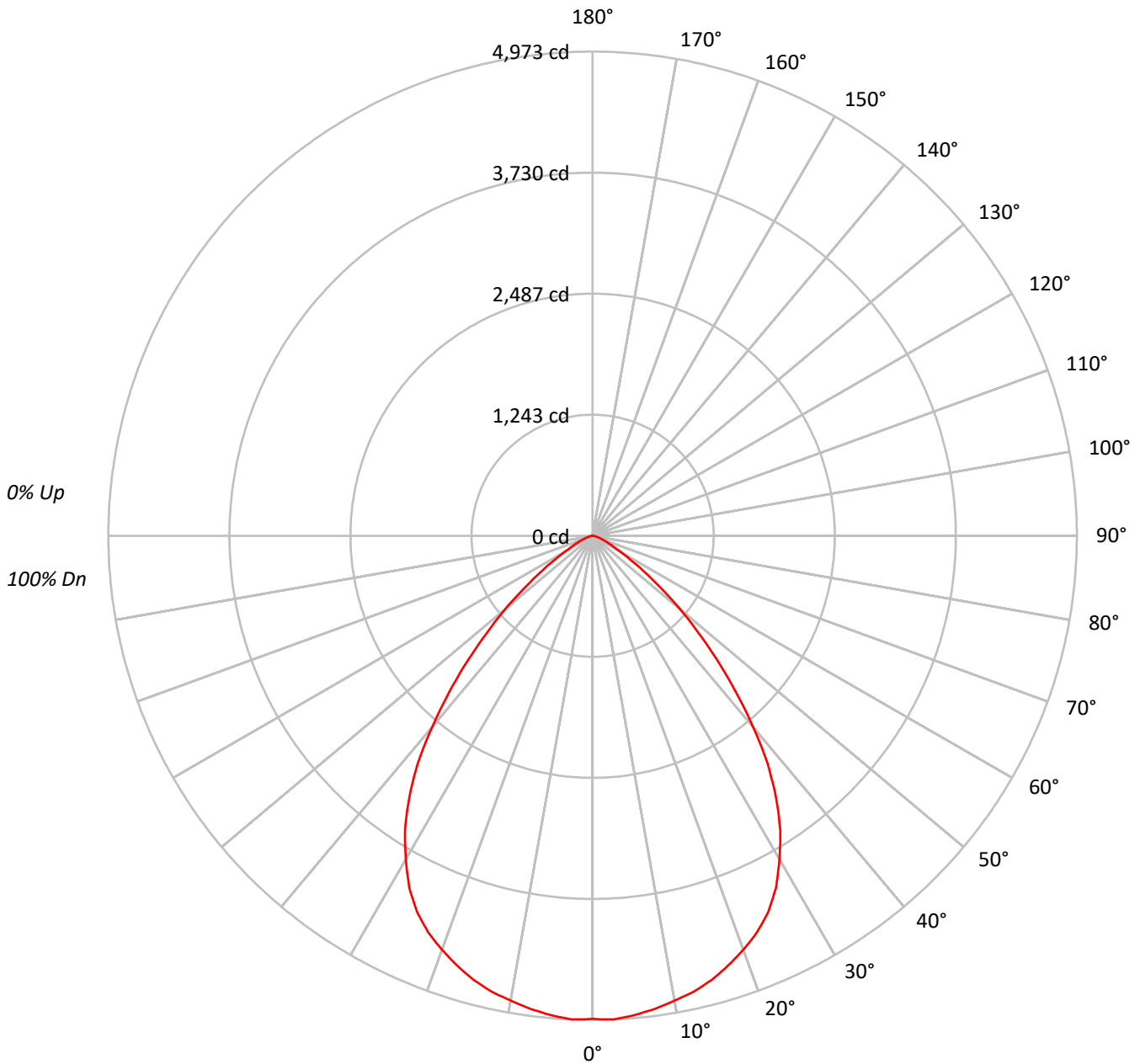
Lumens per Lamp: N/A  
Luminaire Lumens: 8046.1 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 89.5  
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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81			
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44			
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41			
10	62	51	44	40	61	50	44	39	50	43	39	49	43	39	48	43	39	38			

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

	0°
0°	272045
5°	271951
10°	269857
15°	268049
20°	263964
25°	257936
30°	242860
35°	219789
40°	183530
45°	140627
50°	99596
55°	62793
60°	35425
65°	22999
70°	15019
75°	11035
80°	6630
85°	6604



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	468.7	5.8
10°-20°	1330.0	16.5
20°-30°	1950.1	24.2
30°-40°	2029.5	25.2
40°-50°	1404.1	17.5
50°-60°	611.4	7.6
60°-70°	187.5	2.3
70°-80°	56.2	0.7
80°-90°	8.6	0.1
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°	3748.7	46.6
0°-40°	5778.3	71.8
0°-60°	7793.8	96.9
0°-90°	8046.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8046.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4962	
5°	4942	469
15°	4723	1330
25°	4264	1950
35°	3284	2030
45°	1814	1404
55°	657	611
65°	177	188
75°	52	56
85°	10	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4962.5
2.5°	4973.0
5°	4941.9
7.5°	4900.3
10°	4847.8
12.5°	4795.7
15°	4723.0
17.5°	4628.9
20°	4524.7
22.5°	4410.1
25°	4264.3
27.5°	4076.5
30°	3836.6
32.5°	3586.3
35°	3284.2
37.5°	2950.7
40°	2564.6
42.5°	2179.0
45°	1813.9
47.5°	1469.9
50°	1167.8
52.5°	886.4
55°	657.0
57.5°	469.2
60°	323.1
62.5°	239.9
65°	177.3
67.5°	135.7
70°	93.7
72.5°	73.1
75°	52.1
77.5°	31.1
80°	21.0
82.5°	10.5
85°	10.5
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)