

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: P236169

Luminaire Tested: **FLD6BX70D010 EU6B6/78040 F6LBXVM1LIBL85**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P236169  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6BX70D010 EU6B6/78040 F6LBXVM1LIBL85  
Description: FAILSAFE 6 INCH RECESSED LED DOWNLIGHT  
6" LED Vandal Resistant, Medium (50° Beam), Specular Clear, Bottom lens,  
0.187" clear polycarbonate  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

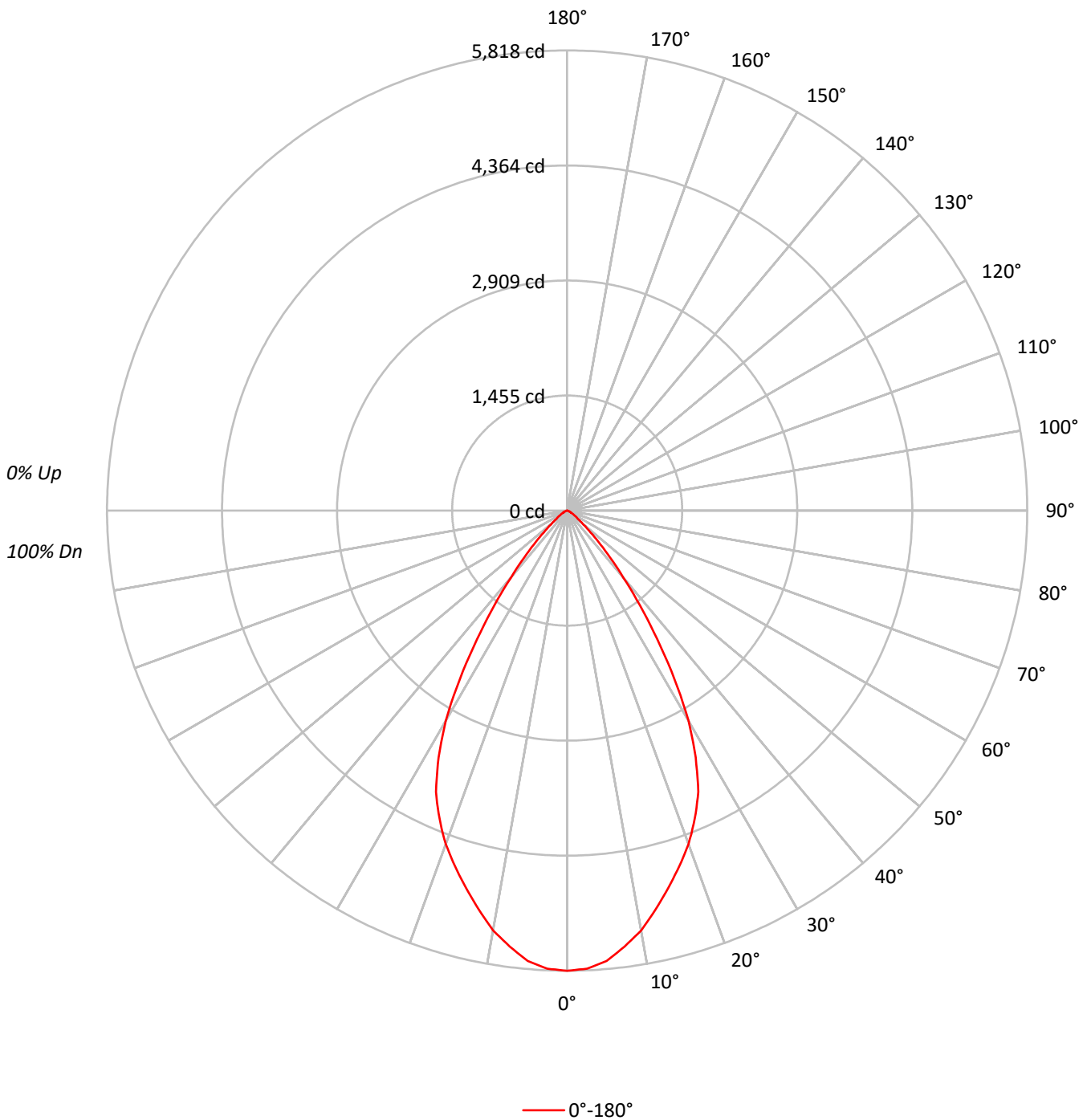
Lumens per Lamp: N/A  
Luminaire Lumens: 5583.7 lumens  
Efficiency: N/A  
Efficacy: 70.3 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.91  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 79.45  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	102	95	90	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59
8	77	68	61	57	76	67	61	57	66	60	57	65	60	56	64	59	56	55
9	74	64	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	53	49	48

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

	0°
0°	379603
5°	374405
10°	357072
15°	333584
20°	311584
25°	282477
30°	231055
35°	158062
40°	94116
45°	50976
50°	25181
55°	15390
60°	10295
65°	6962
70°	4311
75°	2848
80°	4245
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	534.5	9.6
10°-20°	1387.0	24.8
20°-30°	1767.2	31.6
30°-40°	1248.9	22.4
40°-50°	455.9	8.2
50°-60°	126.4	2.3
60°-70°	45.8	0.8
70°-80°	16.4	0.3
80°-90°	1.5	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°	3688.7	66.1
0°-40°	4937.6	88.4
0°-60°	5519.9	98.9
0°-90°	5583.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5583.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5818	
5°	5717	535
15°	4939	1387
25°	3924	1767
35°	1985	1249
45°	552	456
55°	135	126
65°	45	46
75°	11	16
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5818.5
2.5°	5795.9
5°	5717.0
7.5°	5559.1
10°	5390.0
12.5°	5164.4
15°	4938.9
17.5°	4713.4
20°	4487.9
22.5°	4217.3
25°	3924.1
27.5°	3518.1
30°	3067.1
32.5°	2525.8
35°	1984.6
37.5°	1511.0
40°	1105.1
42.5°	800.6
45°	552.5
47.5°	372.1
50°	248.1
52.5°	169.1
55°	135.3
57.5°	101.5
60°	78.9
62.5°	56.4
65°	45.1
67.5°	33.8
70°	22.6
72.5°	22.6
75°	11.3
77.5°	11.3
80°	11.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)