

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: P236177

Luminaire Tested: **FLD6BX70D010 EU6B6/78040 F6LBXVM1LIBL86**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P236177  
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 F6LBXVM1LIBL86  
Description: FAILSAFE 6 INCH RECESSED LED DOWNLIGHT  
6" LED Vandal Resistant, Medium (50° Beam), Specular Clear, Bottom lens,  
0.250" clear polycarbonate  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

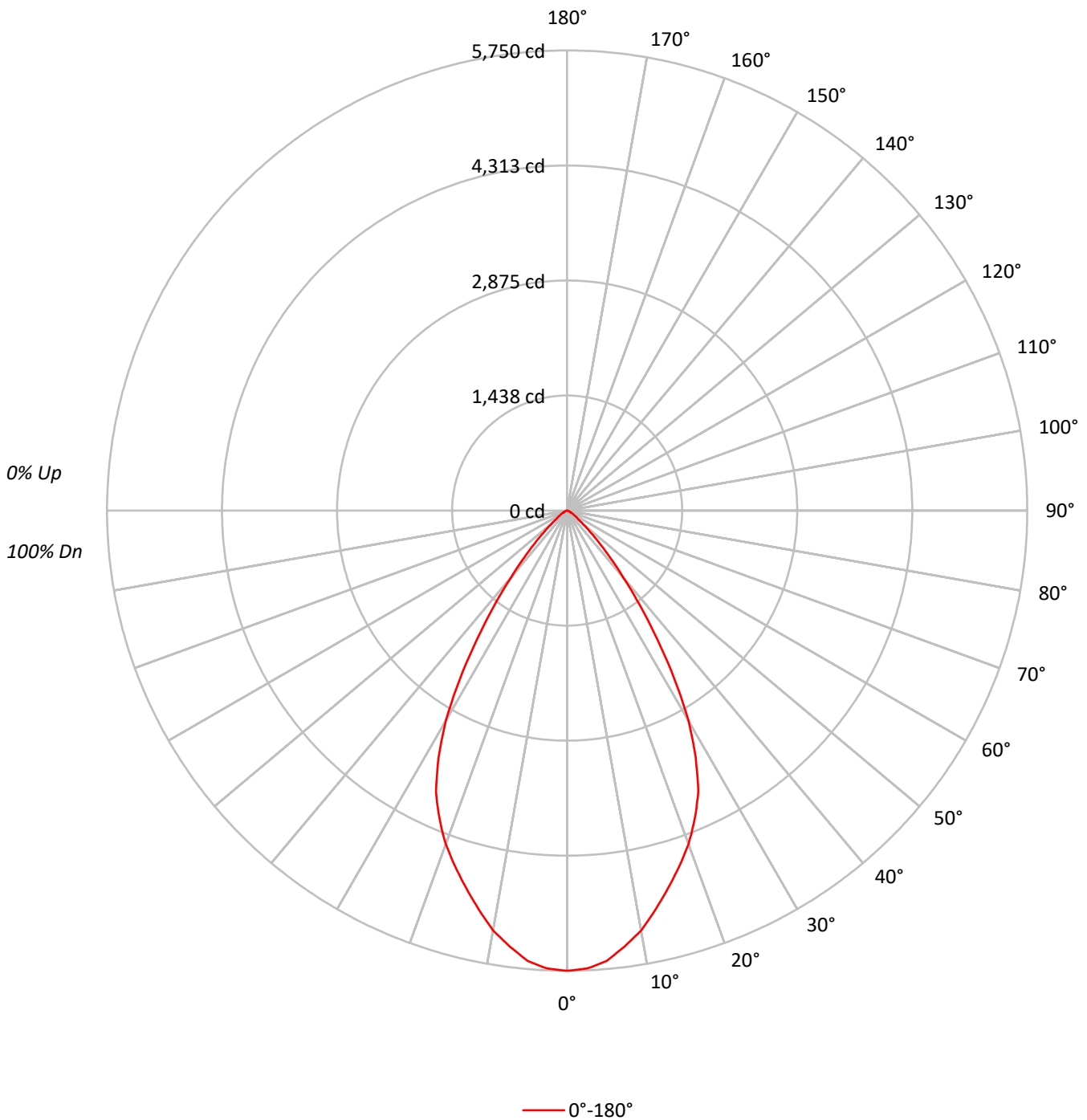
Lumens per Lamp: N/A  
Luminaire Lumens: 5517.9 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.91  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 79.45  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	375134
5°	369998
10°	352872
15°	329659
20°	307918
25°	279151
30°	228335
35°	156198
40°	93009
45°	50376
50°	24887
55°	15208
60°	10178
65°	6885
70°	4254
75°	2798
80°	4170
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.2	9.6
10°-20°	1370.7	24.8
20°-30°	1746.4	31.6
30°-40°	1234.2	22.4
40°-50°	450.6	8.2
50°-60°	124.9	2.3
60°-70°	45.3	0.8
70°-80°	16.1	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°	3645.3	66.1
0°-40°	4879.5	88.4
0°-60°	5455.0	98.9
0°-90°	5517.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5517.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5750	
5°	5650	528
15°	4881	1371
25°	3878	1746
35°	1961	1234
45°	546	451
55°	134	125
65°	45	45
75°	11	16
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5750.0
2.5°	5727.7
5°	5649.7
7.5°	5493.7
10°	5326.6
12.5°	5103.7
15°	4880.8
17.5°	4657.9
20°	4435.1
22.5°	4167.6
25°	3877.9
27.5°	3476.7
30°	3031.0
32.5°	2496.1
35°	1961.2
37.5°	1493.2
40°	1092.1
42.5°	791.2
45°	546.0
47.5°	367.7
50°	245.2
52.5°	167.2
55°	133.7
57.5°	100.3
60°	78.0
62.5°	55.7
65°	44.6
67.5°	33.4
70°	22.3
72.5°	22.3
75°	11.1
77.5°	11.1
80°	11.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)