

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: P236167

Luminaire Tested: **FLD6BX50D010 EU6B3/58040 F6LBXVM1LIBL85**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P236167  
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: FLD6BX50D010 EU6B3/58040 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**

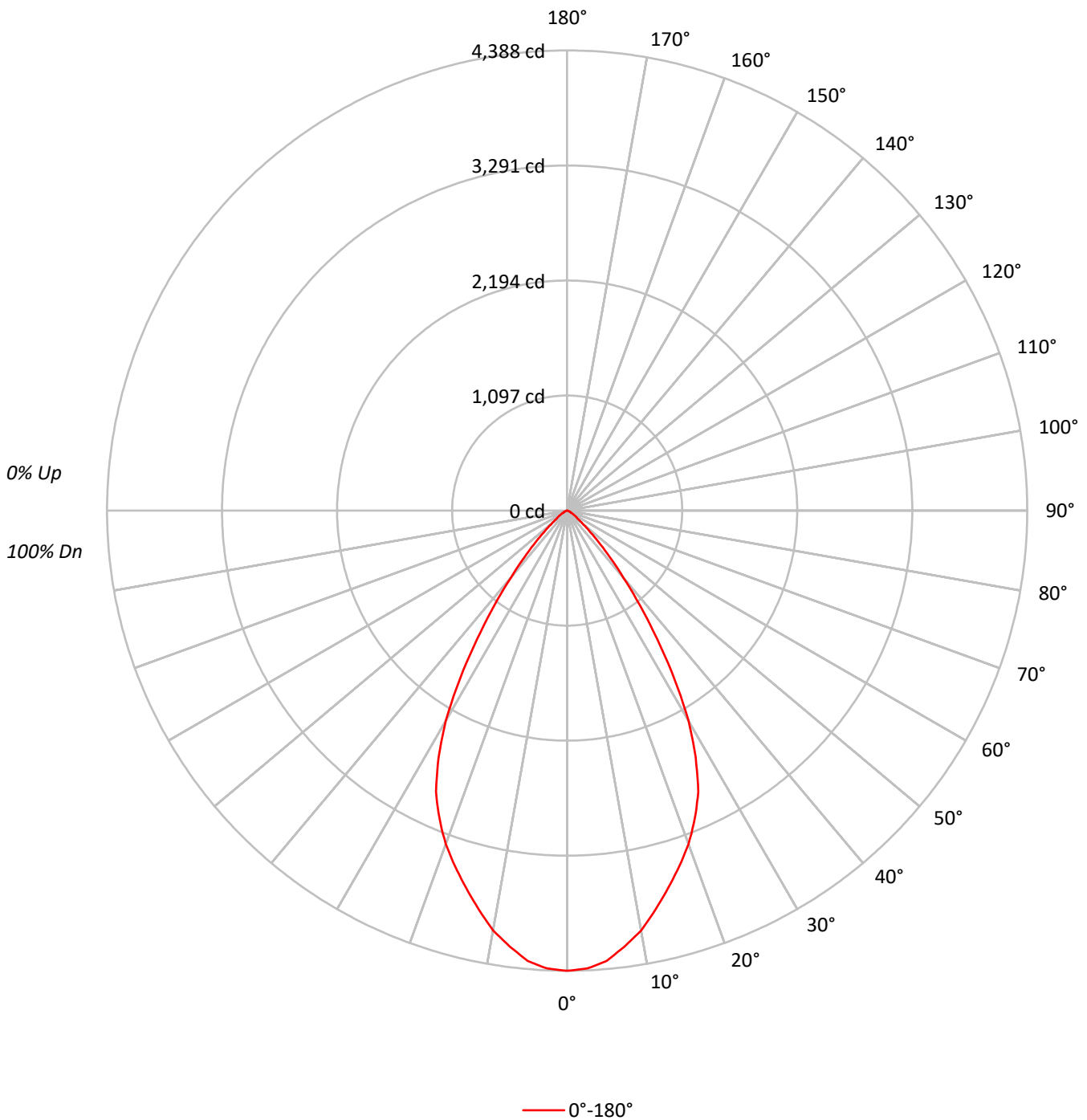
Lumens per Lamp: N/A  
Luminaire Lumens: 4210.9 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.91  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.77  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	286276
5°	282353
10°	269281
15°	251574
20°	234978
25°	213025
30°	174246
35°	119203
40°	70977
45°	38446
50°	18990
55°	11602
60°	7764
65°	5249
70°	3243
75°	2143
80°	3193
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.1	9.6
10°-20°	1046.0	24.8
20°-30°	1332.7	31.6
30°-40°	941.9	22.4
40°-50°	343.9	8.2
50°-60°	95.3	2.3
60°-70°	34.6	0.8
70°-80°	12.3	0.3
80°-90°	1.2	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°	2781.8	66.1
0°-40°	3723.7	88.4
0°-60°	4162.8	98.9
0°-90°	4210.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4210.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4388	
5°	4311	403
15°	3725	1046
25°	2959	1333
35°	1497	942
45°	417	344
55°	102	95
65°	34	35
75°	8	12
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4388.0
2.5°	4371.0
5°	4311.4
7.5°	4192.4
10°	4064.8
12.5°	3894.8
15°	3724.7
17.5°	3554.6
20°	3384.5
22.5°	3180.4
25°	2959.3
27.5°	2653.2
30°	2313.0
32.5°	1904.9
35°	1496.7
37.5°	1139.5
40°	833.4
42.5°	603.8
45°	416.7
47.5°	280.6
50°	187.1
52.5°	127.6
55°	102.0
57.5°	76.5
60°	59.5
62.5°	42.5
65°	34.0
67.5°	25.5
70°	17.0
72.5°	17.0
75°	8.5
77.5°	8.5
80°	8.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)