

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: P236174

Luminaire Tested: **FLD6BX40D010 EU6B3/58040 F6LBXVM1LIBL86**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P236174  
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: FLD6BX40D010 EU6B3/58040 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**

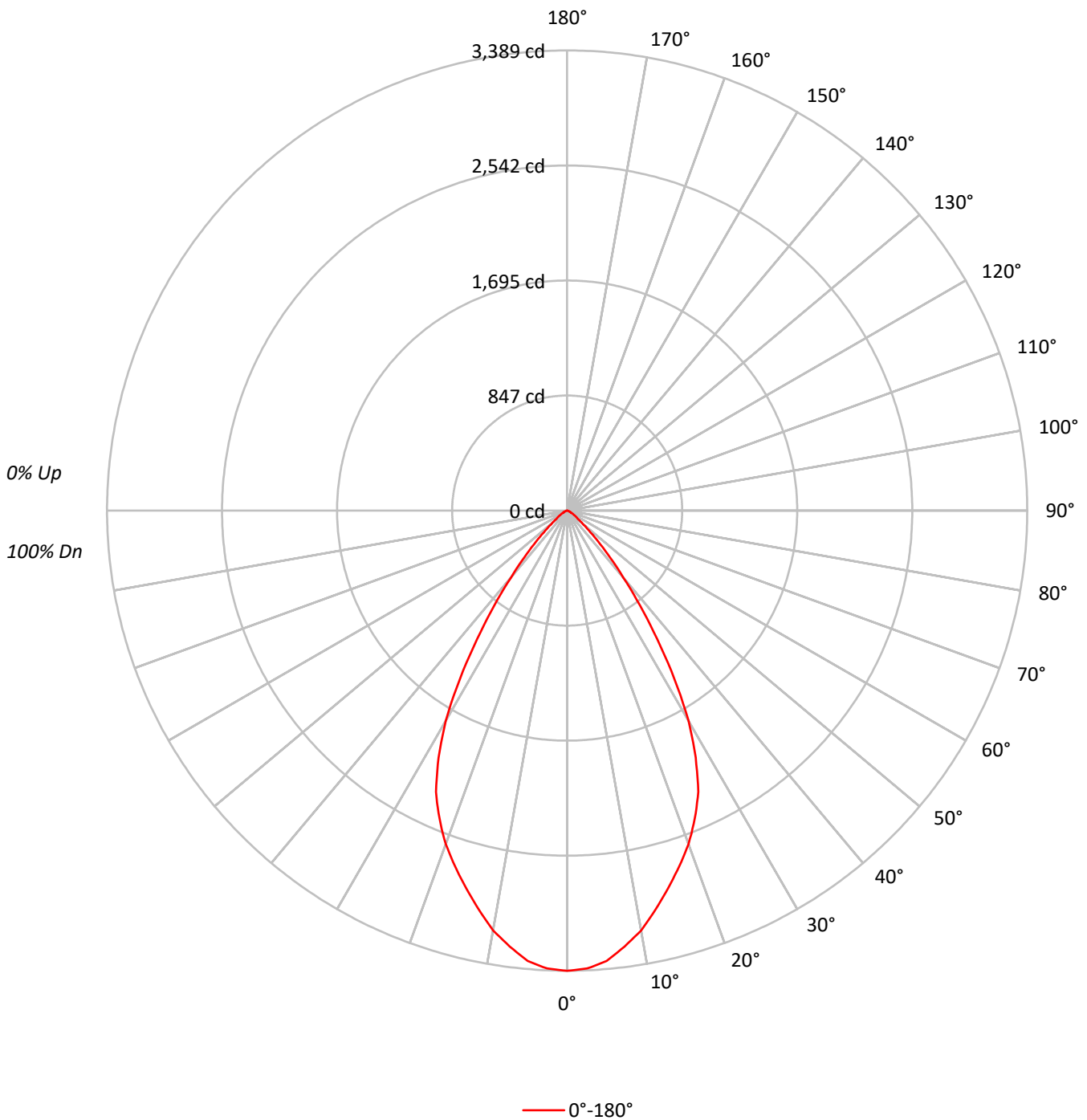
Lumens per Lamp: N/A  
Luminaire Lumens: 3252.5 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.91  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	221120
5°	218088
10°	207996
15°	194312
20°	181498
25°	164543
30°	134591
35°	92069
40°	54821
45°	29691
50°	14666
55°	8963
60°	6002
65°	4060
70°	2499
75°	1664
80°	2480
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.3	9.6
10°-20°	807.9	24.8
20°-30°	1029.4	31.6
30°-40°	727.5	22.4
40°-50°	265.6	8.2
50°-60°	73.6	2.3
60°-70°	26.7	0.8
70°-80°	9.5	0.3
80°-90°	0.9	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°	2148.7	66.1
0°-40°	2876.2	88.4
0°-60°	3215.4	98.9
0°-90°	3252.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3252.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3389	
5°	3330	311
15°	2877	808
25°	2286	1029
35°	1156	728
45°	322	266
55°	79	74
65°	26	27
75°	7	10
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3389.3
2.5°	3376.1
5°	3330.1
7.5°	3238.2
10°	3139.7
12.5°	3008.3
15°	2876.9
17.5°	2745.6
20°	2614.2
22.5°	2456.6
25°	2285.8
27.5°	2049.3
30°	1786.6
32.5°	1471.3
35°	1156.0
37.5°	880.2
40°	643.7
42.5°	466.4
45°	321.8
47.5°	216.8
50°	144.5
52.5°	98.5
55°	78.8
57.5°	59.1
60°	46.0
62.5°	32.8
65°	26.3
67.5°	19.7
70°	13.1
72.5°	13.1
75°	6.6
77.5°	6.6
80°	6.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)