

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: P236163

Luminaire Tested: **FLD6BX15D010 EU6B1/28040 F6LBXVM1LIBL85**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P236163  
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: FLD6BX15D010 EU6B1/28040 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: 1155.1 lumens  
Efficiency: N/A  
Efficacy: 80.8 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

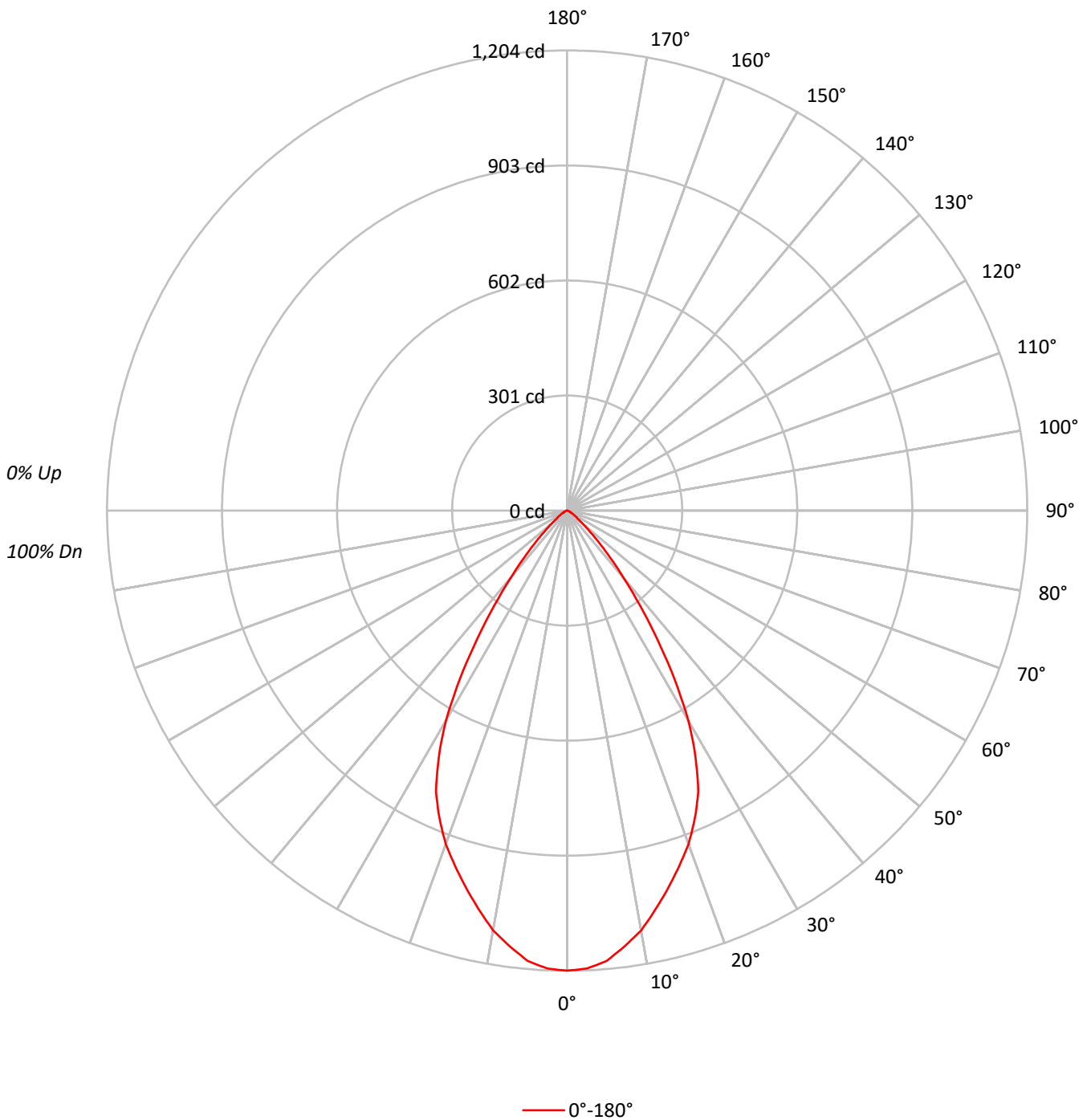
Input Watts (W): 14.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	78530
5°	77455
10°	73872
15°	69014
20°	64464
25°	58437
30°	47799
35°	32702
40°	19469
45°	10546
50°	5207
55°	3185
60°	2127
65°	1436
70°	897
75°	580
80°	864
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.6	9.6
10°-20°	286.9	24.8
20°-30°	365.6	31.7
30°-40°	258.4	22.4
40°-50°	94.3	8.2
50°-60°	26.1	2.3
60°-70°	9.5	0.8
70°-80°	3.4	0.3
80°-90°	0.3	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°	763.1	66.1
0°-40°	1021.5	88.4
0°-60°	1142.0	98.9
0°-90°	1155.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1155.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1204	
5°	1183	111
15°	1022	287
25°	812	366
35°	411	258
45°	114	94
55°	28	26
65°	9	9
75°	2	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1203.7
2.5°	1199.1
5°	1182.7
7.5°	1150.1
10°	1115.1
12.5°	1068.4
15°	1021.8
17.5°	975.1
20°	928.5
22.5°	872.5
25°	811.8
27.5°	727.8
30°	634.5
32.5°	522.5
35°	410.6
37.5°	312.6
40°	228.6
42.5°	165.6
45°	114.3
47.5°	77.0
50°	51.3
52.5°	35.0
55°	28.0
57.5°	21.0
60°	16.3
62.5°	11.7
65°	9.3
67.5°	7.0
70°	4.7
72.5°	4.7
75°	2.3
77.5°	2.3
80°	2.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)