

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: P236158

Luminaire Tested: **FLD6BX40D010 EU6B3/58040 F6LBXVM1LIBL84**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P236158  
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 F6LBXVM1LIBL84  
Description: FAILSAFE 6 INCH RECESSED LED DOWNLIGHT  
6" LED Vandal Resistant, Medium (50° Beam), Specular Clear, Bottom lens,  
0.125" clear polycarbonate  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

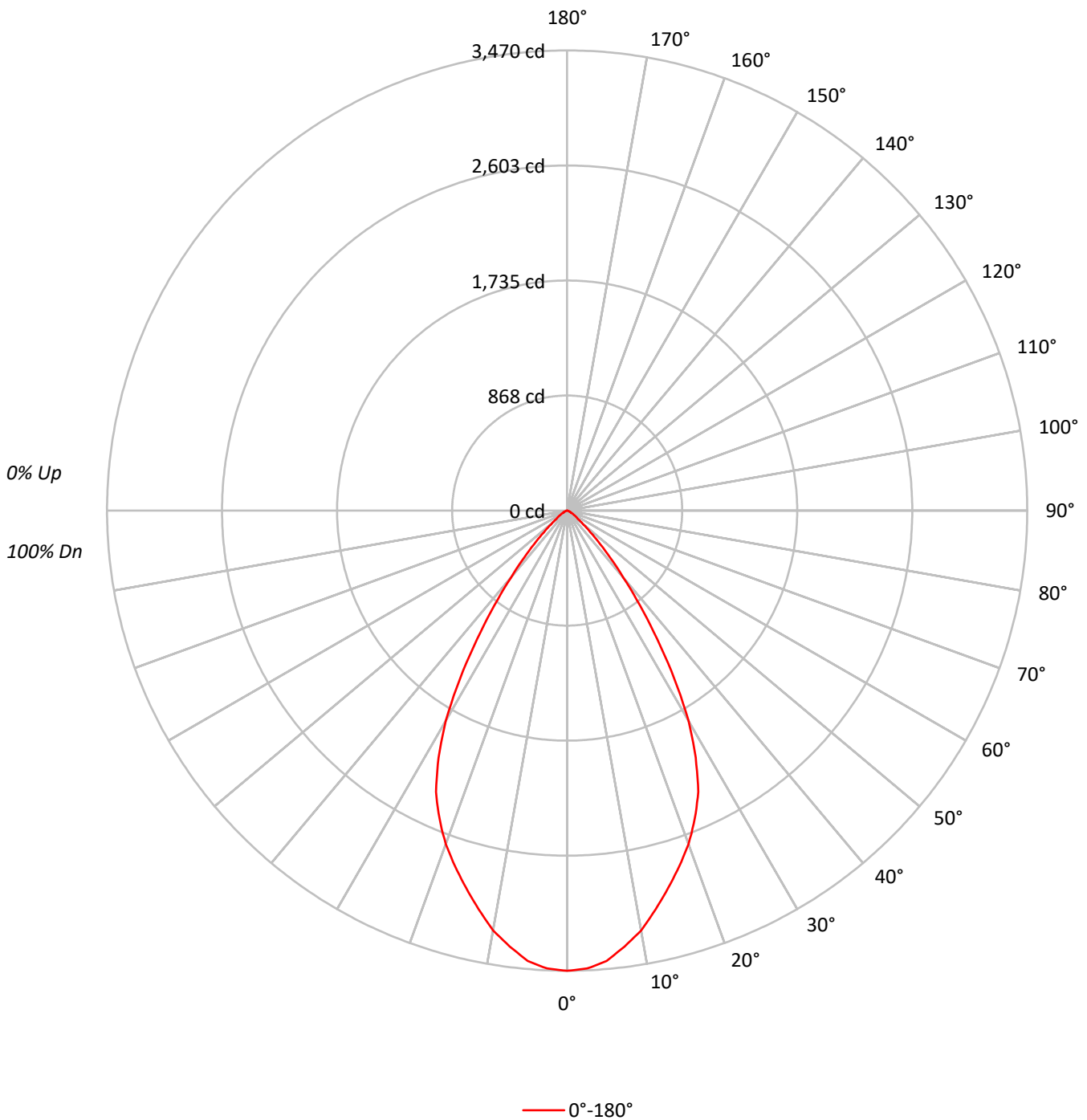
Lumens per Lamp: N/A  
Luminaire Lumens: 3329.8 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.91  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	226385
5°	223281
10°	212945
15°	198938
20°	185816
25°	168459
30°	137792
35°	94259
40°	56124
45°	30401
50°	15011
55°	9179
60°	6146
65°	4153
70°	2556
75°	1689
80°	2517
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.8	9.6
10°-20°	827.2	24.8
20°-30°	1053.9	31.7
30°-40°	744.8	22.4
40°-50°	271.9	8.2
50°-60°	75.4	2.3
60°-70°	27.3	0.8
70°-80°	9.7	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°	2199.8	66.1
0°-40°	2944.6	88.4
0°-60°	3291.9	98.9
0°-90°	3329.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3329.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3470	
5°	3409	319
15°	2945	827
25°	2340	1054
35°	1184	745
45°	330	272
55°	81	75
65°	27	27
75°	7	10
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3470.0
2.5°	3456.5
5°	3409.4
7.5°	3315.3
10°	3214.4
12.5°	3079.9
15°	2945.4
17.5°	2810.9
20°	2676.4
22.5°	2515.0
25°	2340.2
27.5°	2098.1
30°	1829.1
32.5°	1506.3
35°	1183.5
37.5°	901.1
40°	659.0
42.5°	477.5
45°	329.5
47.5°	221.9
50°	147.9
52.5°	100.9
55°	80.7
57.5°	60.5
60°	47.1
62.5°	33.6
65°	26.9
67.5°	20.2
70°	13.4
72.5°	13.4
75°	6.7
77.5°	6.7
80°	6.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)