

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: P277676

Luminaire Tested: **FLD4BX10D010 EU4B1/28040 F4LBXVM1LIBL85**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277676  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35269)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD4BX10D010 EU4B1/28040 F4LBXVM1LIBL85  
Description: FAILSAFE 4 INCH RECESSED LED DOWNLIGHT  
4 INCH LED VANDAL RESISTANT, MEDIUM (50DEGREE BEAM), SPECULAR CLEAR,  
BOTTOM LENS, 0.187 INCH CLEAR POLYCARBONATE  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 886.5 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 0.71 / 0.76  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

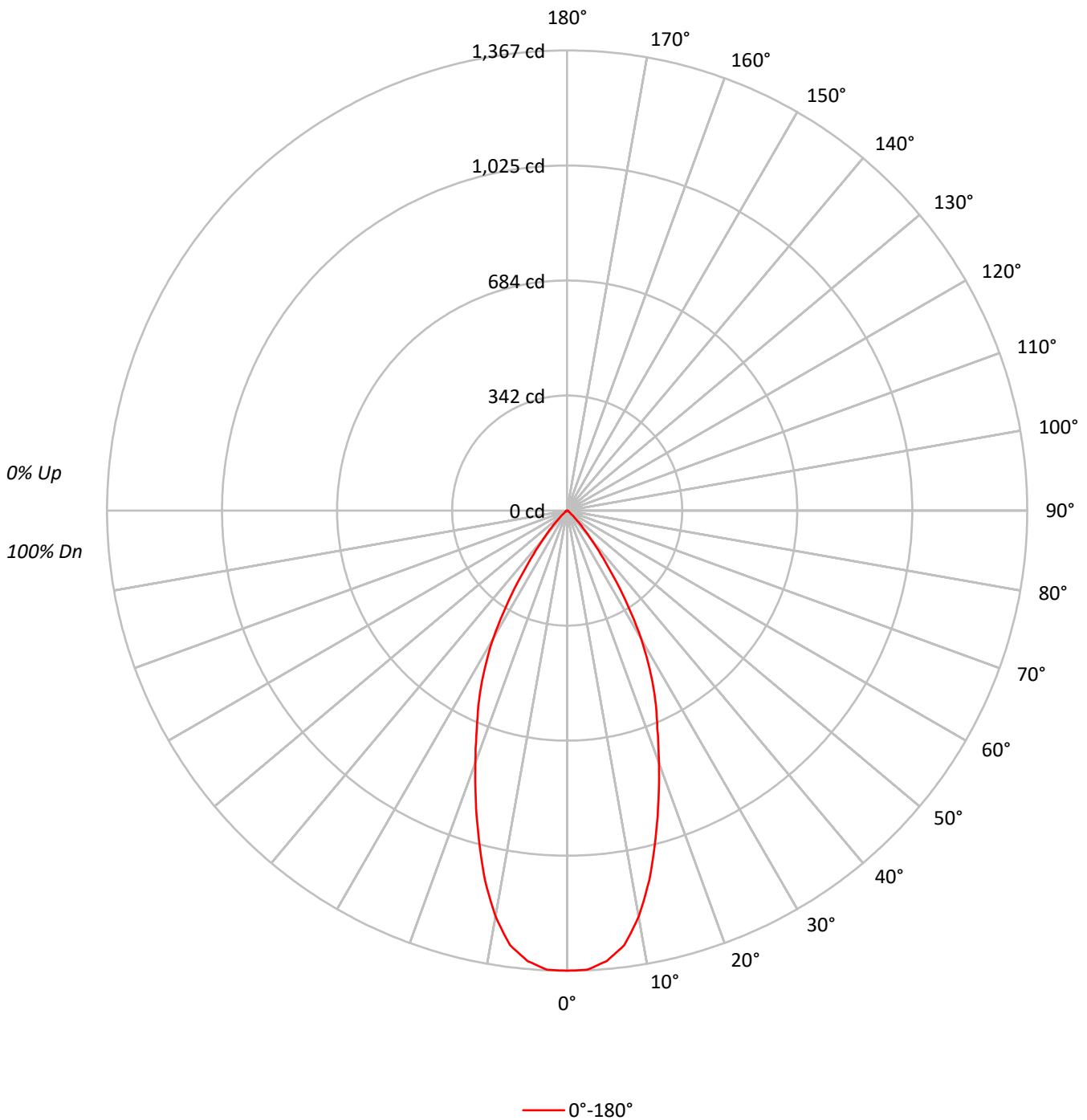
Input Watts (W): 9.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P277676

CATALOG NUMBER: FLD4BX10D010 EU4B1/28040 F4LBXVM1LIBL85

### Luminous Intensity Polar Plot





TEST NUMBER: P277676

CATALOG NUMBER: FLD4BX10D010 EU4B1/28040 F4LBXVM1LIBL85

**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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	87	84	83
4	99	92	87	83	97	91	86	82	88	84	81	87	83	80	85	82	79	78
5	94	86	81	77	93	85	80	77	84	79	76	82	78	75	81	77	75	73
6	90	82	76	72	88	81	76	72	79	75	71	78	74	71	77	73	70	69
7	86	77	72	68	85	76	71	67	75	70	67	74	70	67	73	69	66	65
8	82	73	68	64	81	73	67	64	71	67	63	71	66	63	70	66	63	61
9	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	62	59	58
10	75	66	61	57	74	66	60	57	65	60	57	64	60	57	63	59	56	55

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	149349
5°	147353
10°	135820
15°	114495
20°	92658
25°	74648
30°	55588
35°	32172
40°	15475
45°	6443
50°	2125
55°	952
60°	721
65°	440
70°	256
75°	338
80°	0
85°	0



TEST NUMBER: P277676

CATALOG NUMBER: FLD4BX10D010 EU4B1/28040 F4LBXVM1LIBL85

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.6	14.1
10°-20°	280.8	31.7
20°-30°	281.1	31.7
30°-40°	155.6	17.6
40°-50°	36.7	4.1
50°-60°	5.3	0.6
60°-70°	2.0	0.2
70°-80°	0.5	0.1
80°-90°	0.0	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°	686.4	77.4
0°-40°	842.0	95.0
0°-60°	884.0	99.7
0°-90°	886.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	886.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1367	
5°	1344	125
15°	1012	281
25°	619	281
35°	241	156
45°	42	37
55°	5	5
65°	2	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P277676

CATALOG NUMBER: FLD4BX10D010 EU4B1/28040 F4LBXVM1LIBL85

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1366.9
2.5°	1365.2
5°	1343.5
7.5°	1301.8
10°	1224.2
12.5°	1125.7
15°	1012.2
17.5°	902.1
20°	796.9
22.5°	700.1
25°	619.2
27.5°	531.6
30°	440.6
32.5°	338.0
35°	241.2
37.5°	163.6
40°	108.5
42.5°	68.4
45°	41.7
47.5°	24.2
50°	12.5
52.5°	6.7
55°	5.0
57.5°	4.2
60°	3.3
62.5°	2.5
65°	1.7
67.5°	1.7
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)