

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: P277681

Luminaire Tested: **FLD4BX10D010 EU4B1/28040 F4LBXVM1LIBL86**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277681  
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 F4LBXVM1LIBL86  
Description: FAILSAFE 4 INCH RECESSED LED DOWNLIGHT  
4 INCH LED VANDAL RESISTANT, MEDIUM (50DEGREE BEAM), SPECULAR CLEAR,  
BOTTOM LENS, 0.250 INCH CLEAR POLYCARBONATE  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 876.0 lumens  
Efficiency: N/A  
Efficacy: 88.5 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

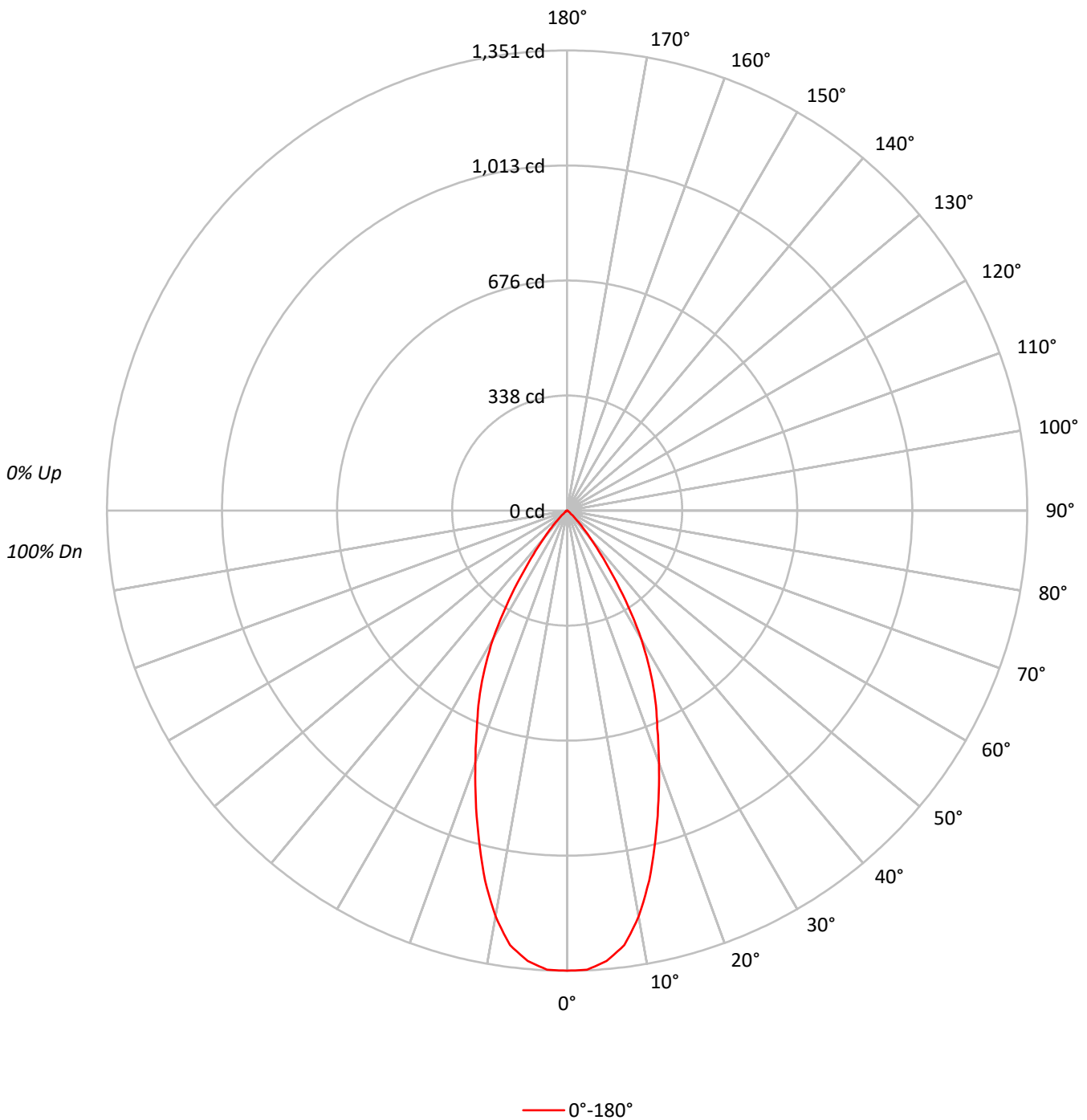
Input Watts (W): 9.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	72	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°	147589
5°	145620
10°	134223
15°	113149
20°	91577
25°	73768
30°	54932
35°	31785
40°	15290
45°	6366
50°	2108
55°	933
60°	721
65°	414
70°	256
75°	338
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.1	14.1
10°-20°	277.5	31.7
20°-30°	277.8	31.7
30°-40°	153.8	17.6
40°-50°	36.3	4.1
50°-60°	5.2	0.6
60°-70°	1.9	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°	678.4	77.4
0°-40°	832.1	95.0
0°-60°	873.6	99.7
0°-90°	876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	876.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1351	
5°	1328	123
15°	1000	277
25°	612	278
35°	238	154
45°	41	36
55°	5	5
65°	2	2
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1350.8
2.5°	1349.2
5°	1327.7
7.5°	1286.5
10°	1209.8
12.5°	1112.5
15°	1000.3
17.5°	891.5
20°	787.6
22.5°	691.9
25°	611.9
27.5°	525.3
30°	435.4
32.5°	334.0
35°	238.3
37.5°	161.6
40°	107.2
42.5°	67.6
45°	41.2
47.5°	23.9
50°	12.4
52.5°	6.6
55°	4.9
57.5°	4.1
60°	3.3
62.5°	2.5
65°	1.6
67.5°	1.6
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)