

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: P277689

Luminaire Tested: **FLD4BX30D010 EU4B3/58040 F4LBXVM1LIBL89BV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277689  
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: FLD4BX30D010 EU4B3/58040 F4LBXVM1LIBL89BV  
Description: FAILSAFE 4 INCH RECESSED LED DOWNLIGHT  
4 INCH LED VANDAL RESISTANT, MEDIUM (50DEGREE BEAM), SPECULAR CLEAR,  
BOTTOM LENS  
Light Source: (1) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2608.2 lumens  
Efficiency: N/A  
Efficacy: 93.2 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

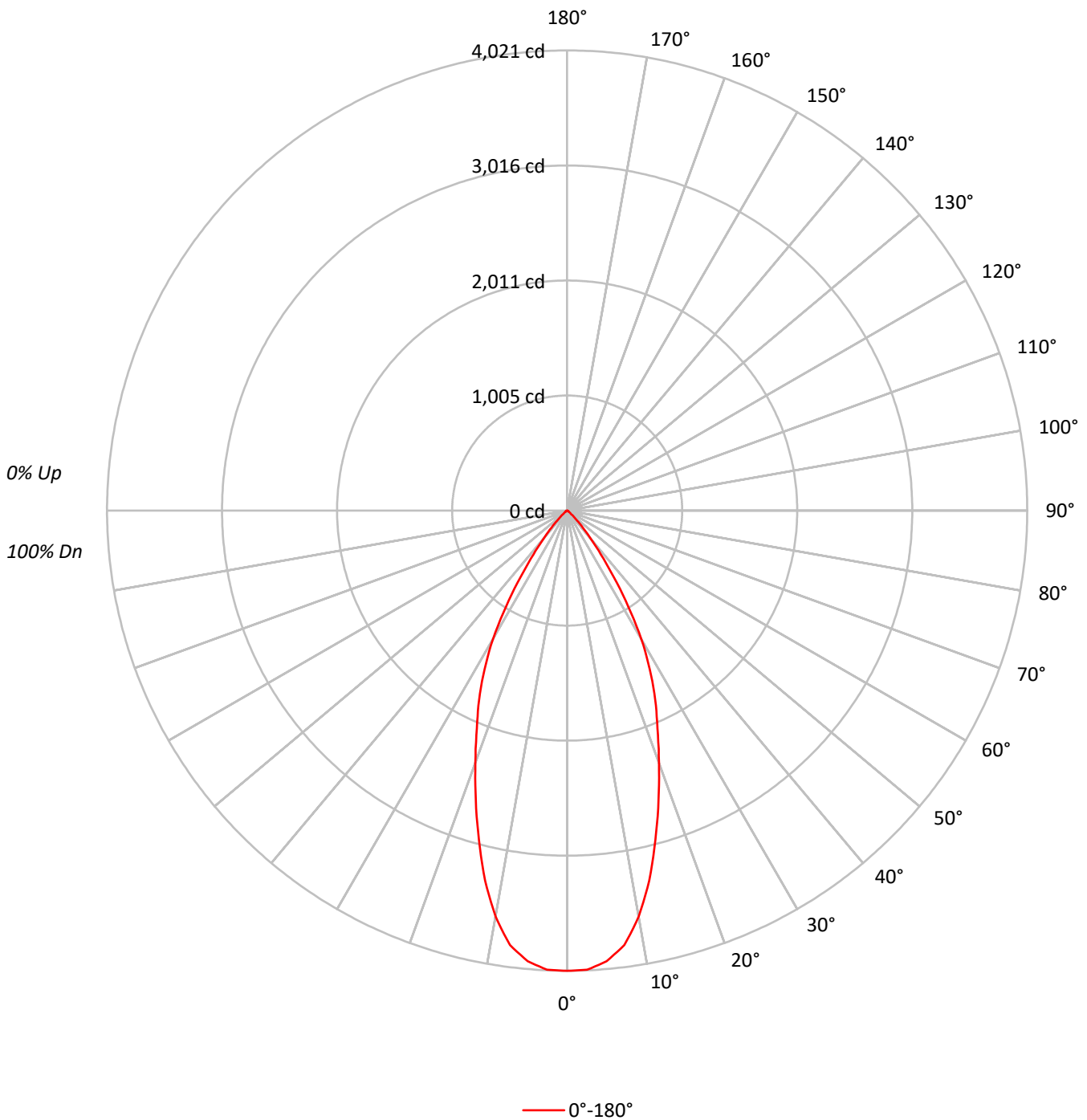
Input Watts (W): 28  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	439381
5°	433514
10°	399584
15°	336857
20°	272613
25°	219617
30°	163546
35°	94635
40°	45527
45°	18975
50°	6255
55°	2800
60°	2142
65°	1267
70°	799
75°	1055
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.6	14.1
10°-20°	826.0	31.7
20°-30°	826.9	31.7
30°-40°	457.8	17.6
40°-50°	108.1	4.1
50°-60°	15.5	0.6
60°-70°	5.8	0.2
70°-80°	1.6	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°	2019.5	77.4
0°-40°	2477.3	95.0
0°-60°	2600.9	99.7
0°-90°	2608.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2608.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4021	
5°	3953	367
15°	2978	826
25°	1822	827
35°	710	458
45°	123	108
55°	15	15
65°	5	6
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4021.4
2.5°	4016.5
5°	3952.6
7.5°	3829.9
10°	3601.6
12.5°	3311.9
15°	2978.0
17.5°	2653.9
20°	2344.6
22.5°	2059.8
25°	1821.7
27.5°	1563.9
30°	1296.3
32.5°	994.3
35°	709.5
37.5°	481.2
40°	319.2
42.5°	201.3
45°	122.8
47.5°	71.2
50°	36.8
52.5°	19.6
55°	14.7
57.5°	12.3
60°	9.8
62.5°	7.4
65°	4.9
67.5°	4.9
70°	2.5
72.5°	2.5
75°	2.5
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)