

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: P277678

Luminaire Tested: **FLD4BX20D010 EU4B1/28040 F4LBXVM1LIBL85**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277678
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: FLD4BX20D010 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: 1672.8 lumens
Efficiency: N/A
Efficacy: 80.4 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

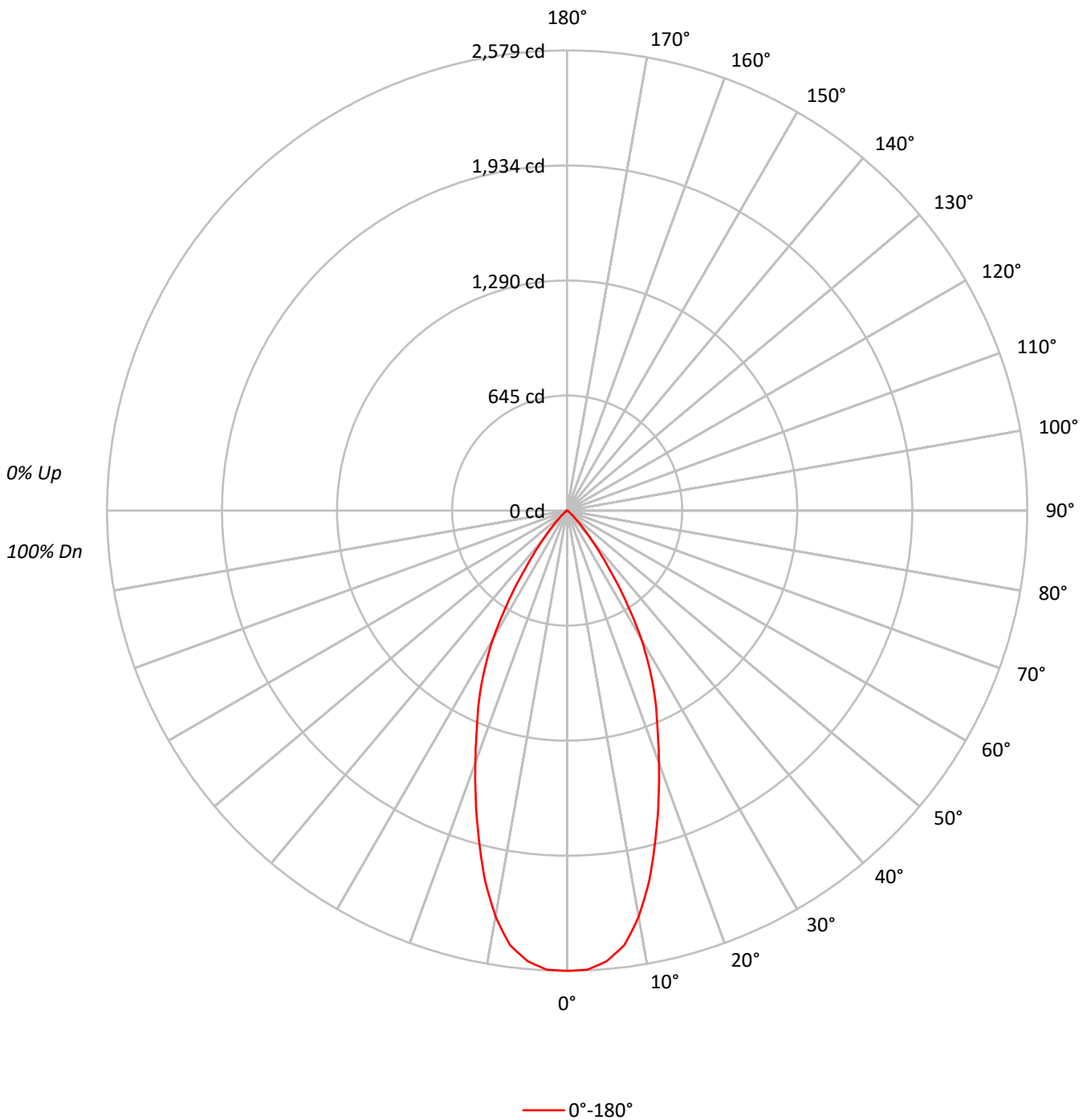
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	281805
5°	278045
10°	256275
15°	216050
20°	174840
25°	140845
30°	104892
35°	60702
40°	29196
45°	12161
50°	4012
55°	1791
60°	1377
65°	801
70°	511
75°	675
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.1	14.1
10°-20°	529.8	31.7
20°-30°	530.3	31.7
30°-40°	293.6	17.6
40°-50°	69.3	4.1
50°-60°	9.9	0.6
60°-70°	3.7	0.2
70°-80°	1.0	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°	1295.2	77.4
0°-40°	1588.8	95.0
0°-60°	1668.1	99.7
0°-90°	1672.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1672.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2579	
5°	2535	235
15°	1910	530
25°	1168	530
35°	455	294
45°	79	69
55°	9	10
65°	3	4
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2579.2
2.5°	2576.0
5°	2535.1
7.5°	2456.3
10°	2309.9
12.5°	2124.1
15°	1910.0
17.5°	1702.1
20°	1503.7
22.5°	1321.1
25°	1168.3
27.5°	1003.0
30°	831.4
32.5°	637.7
35°	455.1
37.5°	308.6
40°	204.7
42.5°	129.1
45°	78.7
47.5°	45.7
50°	23.6
52.5°	12.6
55°	9.4
57.5°	7.9
60°	6.3
62.5°	4.7
65°	3.1
67.5°	3.1
70°	1.6
72.5°	1.6
75°	1.6
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)