

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: P277687

Luminaire Tested: **FLD4BX15D010 EU4B1/28040 F4LBXVM1LIBL89BV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277687
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: FLD4BX15D010 EU4B1/28040 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: 1336.8 lumens
Efficiency: N/A
Efficacy: 93.5 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

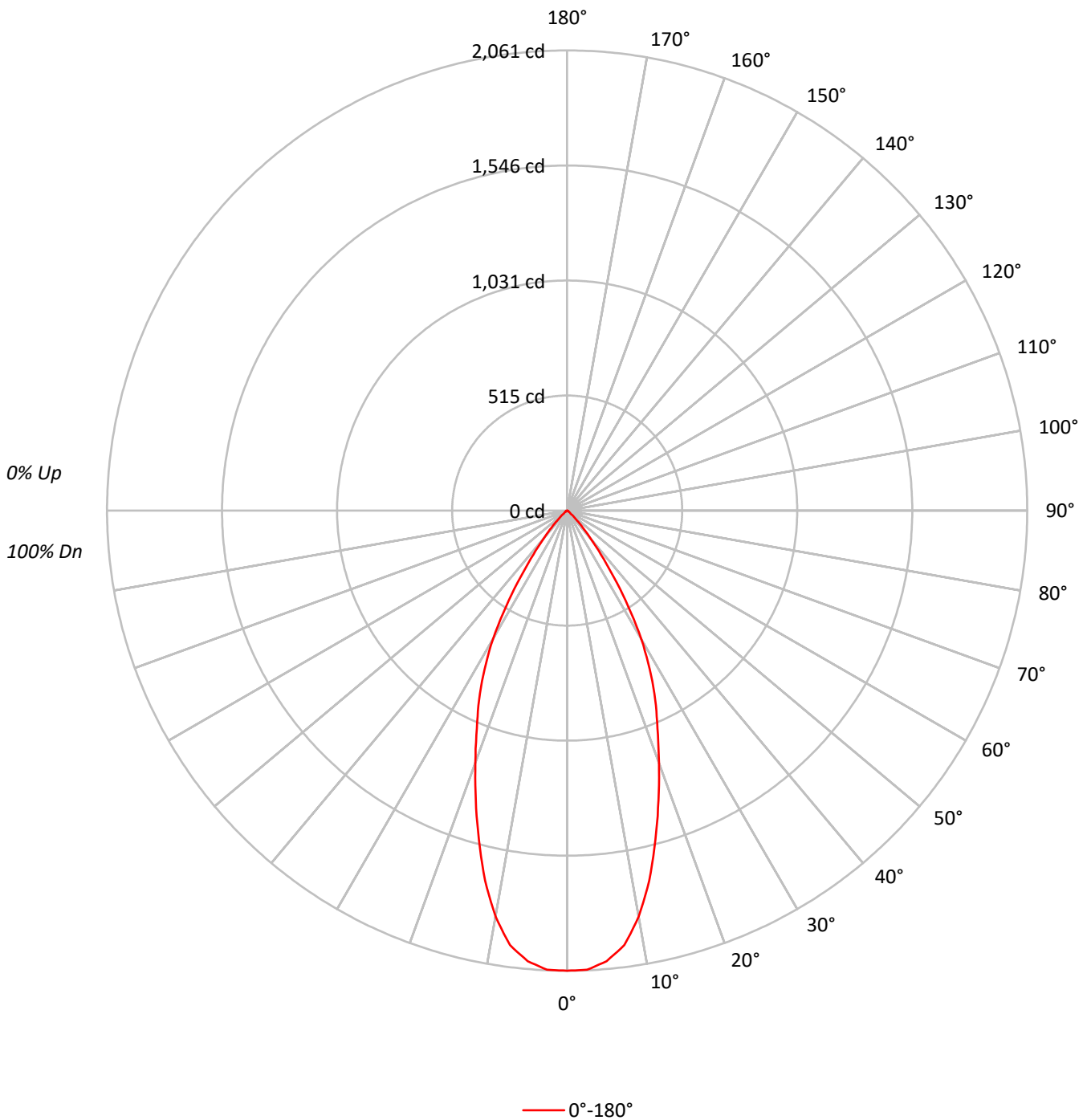
Input Watts (W): 14.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	225186
5°	222186
10°	204796
15°	172648
20°	139713
25°	112551
30°	83823
35°	48498
40°	23334
45°	9719
50°	3213
55°	1429
60°	1093
65°	646
70°	415
75°	549
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	14.1
10°-20°	423.4	31.7
20°-30°	423.8	31.7
30°-40°	234.6	17.6
40°-50°	55.4	4.1
50°-60°	7.9	0.6
60°-70°	2.9	0.2
70°-80°	0.9	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°	1035.0	77.4
0°-40°	1269.6	95.0
0°-60°	1333.0	99.7
0°-90°	1336.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1336.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2061	
5°	2026	188
15°	1526	423
25°	934	424
35°	364	235
45°	63	55
55°	8	8
65°	2	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2061.0
2.5°	2058.5
5°	2025.8
7.5°	1962.9
10°	1845.9
12.5°	1697.4
15°	1526.3
17.5°	1360.2
20°	1201.6
22.5°	1055.7
25°	933.6
27.5°	801.5
30°	664.4
32.5°	509.6
35°	363.6
37.5°	246.6
40°	163.6
42.5°	103.2
45°	62.9
47.5°	36.5
50°	18.9
52.5°	10.1
55°	7.5
57.5°	6.3
60°	5.0
62.5°	3.8
65°	2.5
67.5°	2.5
70°	1.3
72.5°	1.3
75°	1.3
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)