

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: P277688

Luminaire Tested: **FLD4BX20D010 EU4B1/28040 F4LBXVM1LIBL89BV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277688
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 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: 1810.5 lumens
Efficiency: N/A
Efficacy: 87.0 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

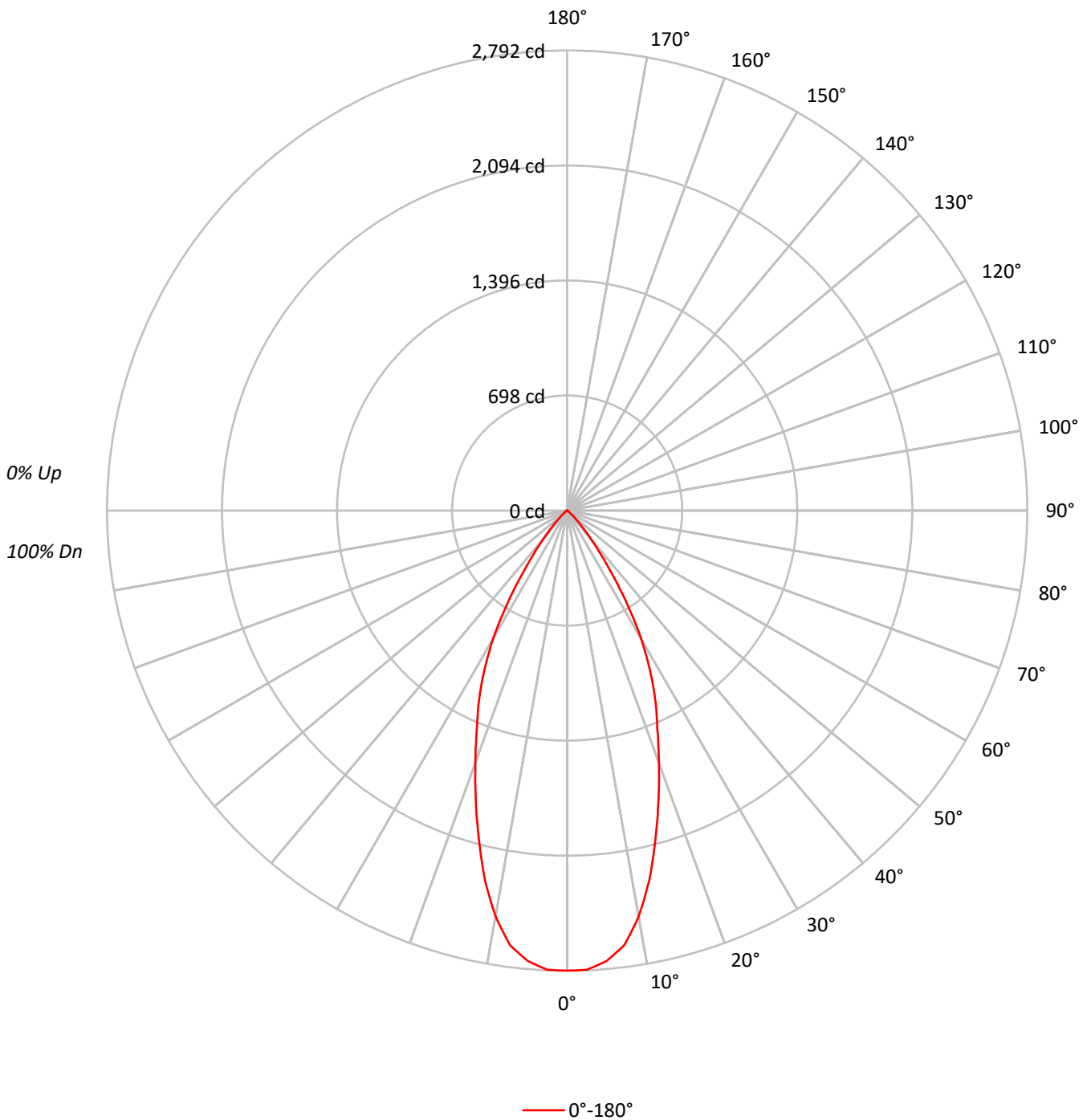
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	305012
5°	300935
10°	277377
15°	233843
20°	189246
25°	152455
30°	113522
35°	65691
40°	31607
45°	13165
50°	4351
55°	1943
60°	1486
65°	879
70°	543
75°	718
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.5	14.1
10°-20°	573.4	31.7
20°-30°	574.0	31.7
30°-40°	317.8	17.6
40°-50°	75.0	4.1
50°-60°	10.7	0.6
60°-70°	4.0	0.2
70°-80°	1.1	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°	1401.9	77.4
0°-40°	1719.7	95.0
0°-60°	1805.4	99.7
0°-90°	1810.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1810.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2792	
5°	2744	254
15°	2067	573
25°	1265	574
35°	492	318
45°	85	75
55°	10	11
65°	3	4
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2791.6
2.5°	2788.2
5°	2743.8
7.5°	2658.6
10°	2500.1
12.5°	2299.0
15°	2067.3
17.5°	1842.3
20°	1627.6
22.5°	1429.9
25°	1264.6
27.5°	1085.6
30°	899.8
32.5°	690.2
35°	492.5
37.5°	334.0
40°	221.6
42.5°	139.7
45°	85.2
47.5°	49.4
50°	25.6
52.5°	13.6
55°	10.2
57.5°	8.5
60°	6.8
62.5°	5.1
65°	3.4
67.5°	3.4
70°	1.7
72.5°	1.7
75°	1.7
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)