

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: P231875

Luminaire Tested: **FVS4M-2-LD4-50-1LO-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4M-2-LD4-50-1LO-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
2FT LENGTH, 1-MODULE LED WITH P125 LENS
Light Source: (42) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

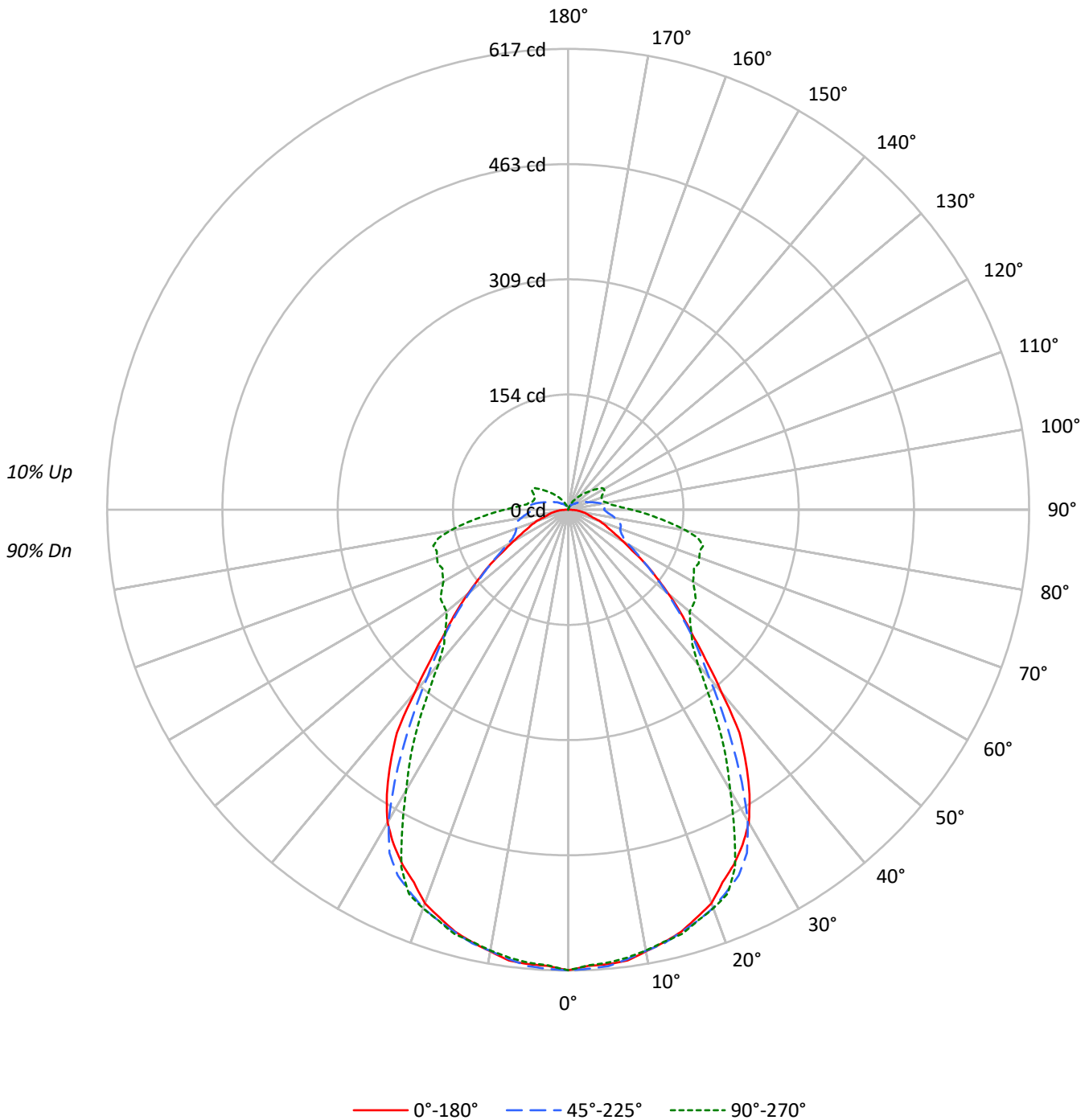
Lumens per Lamp: N/A
Luminaire Lumens: 1433.9 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.1 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 1.92' x H: 0.19')
CIE Type: Semi-Direct

Input Watts (W): 12.3
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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	106	101	96	92	102	98	94	90	92	88	85	86	83	81	81	79	77	74
2	97	89	82	76	93	86	80	75	81	76	72	76	72	68	72	68	65	63
3	89	79	71	65	86	77	70	64	72	66	61	68	63	59	65	60	57	54
4	82	71	63	56	79	69	61	55	65	59	54	62	56	52	59	54	50	48
5	76	64	56	49	74	63	55	49	59	53	47	56	51	46	54	49	45	42
6	71	58	50	44	68	57	49	43	54	47	42	52	46	41	49	44	40	38
7	66	53	45	40	64	52	45	39	50	43	38	48	42	37	45	40	36	34
8	62	49	41	36	60	48	41	35	46	39	35	44	38	34	42	37	33	31
9	58	46	38	33	56	45	37	32	43	36	32	41	35	31	39	34	30	28
10	55	42	35	30	53	41	34	30	40	33	29	38	32	28	37	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11081	11081	11081
5°	10925	10608	10435
10°	10770	10068	9887
15°	10602	9621	9426
20°	10356	9197	8914
25°	9945	8705	8185
30°	9499	7757	6683
35°	8517	6245	5395
40°	6922	4868	4213
45°	5394	3921	3701
50°	4387	3018	3459
55°	3480	2314	3516
60°	2594	1824	3398
65°	2123	1636	3451
70°	1855	1651	3708
75°	1485	1759	4006
80°	1424	1733	3768
85°	1197	1674	3099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	4.0
10°-20°	165.2	11.5
20°-30°	242.3	16.9
30°-40°	239.5	16.7
40°-50°	180.4	12.6
50°-60°	130.1	9.1
60°-70°	102.9	7.2
70°-80°	99.0	6.9
80°-90°	72.9	5.1
90°-100°	43.8	3.1
100°-110°	32.3	2.3
110°-120°	27.5	1.9
120°-130°	19.9	1.4
130°-140°	11.4	0.8
140°-150°	6.0	0.4
150°-160°	2.3	0.2
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	465.5	32.5
0°-40°	705.1	49.2
0°-60°	1015.5	70.8
0°-90°	1290.3	90.0
90°-120°	103.6	7.2
90°-150°	141.0	9.8
90°-180°	144.0	10.0
0°-180°	1433.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	611	611	613	612	609	58
15°	585	583	586	588	588	165
25°	524	528	540	537	528	241
35°	415	426	383	356	349	256
45°	233	228	230	238	233	184
55°	127	113	126	169	208	113
65°	60	61	79	144	186	61
75°	29	47	72	152	187	32
85°	12	23	54	124	118	11
90°	0	14	48	88	85	1
95°	0	12	50	66	63	0
105°	0	10	37	48	48	0
115°	0	9	24	53	51	0
125°	0	9	17	38	49	0
135°	0	8	11	24	31	0
145°	0	6	8	14	18	0
155°	0	3	5	7	8	0
165°	0	1	1	1	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	616.6	616.6	616.6	616.6	616.6
2.5°	611.4	615.3	615.3	612.7	610.8
5°	610.8	610.8	613.4	612.1	608.8
7.5°	608.8	606.9	606.9	604.9	604.9
10°	600.4	600.4	599.7	602.3	599.1
12.5°	593.2	593.2	594.5	593.9	592.6
15°	584.8	582.9	585.5	588.1	588.1
17.5°	572.5	573.8	577.0	580.3	577.0
20°	560.8	560.8	567.3	567.9	567.9
22.5°	540.0	546.5	553.7	557.6	556.9
25°	524.4	527.7	540.0	537.4	528.3
27.5°	505.6	511.5	518.0	495.2	481.0
30°	483.6	486.8	480.3	442.7	433.6
32.5°	451.8	462.8	432.3	398.5	392.7
35°	414.8	426.4	383.0	356.3	349.2
37.5°	376.5	374.5	336.2	313.5	305.7
40°	319.3	313.5	293.4	282.3	270.0
42.5°	272.0	267.4	259.6	257.7	246.0
45°	233.0	227.8	230.4	238.2	233.0
47.5°	203.8	193.4	198.6	219.4	221.3
50°	175.2	161.6	171.4	199.9	212.2
52.5°	148.6	135.7	146.7	183.0	210.3
55°	126.6	112.9	125.9	169.4	208.4
57.5°	101.3	93.5	108.4	160.3	200.6
60°	84.4	78.5	94.1	153.8	192.8
62.5°	70.7	68.2	84.4	146.7	189.5
65°	60.4	61.0	79.2	144.1	185.6
67.5°	52.6	57.1	75.9	142.1	188.9
70°	44.8	53.9	74.0	146.0	186.9
72.5°	35.0	51.3	74.0	149.9	184.3
75°	29.2	47.4	72.0	152.5	186.9
77.5°	25.3	40.9	68.8	155.1	178.5
80°	21.4	35.0	63.6	153.8	160.3
82.5°	16.2	28.6	59.1	144.1	138.3
85°	12.3	22.7	53.9	124.0	118.1
87.5°	5.2	17.5	50.6	105.8	101.3
90°	0.0	13.6	48.0	87.6	85.0
92.5°	0.0	12.3	48.7	74.6	71.4
95°	0.0	11.7	50.0	65.6	63.0
97.5°	0.0	11.0	50.0	59.1	55.8
100°	0.0	11.0	46.1	53.9	53.2
102.5°	0.0	11.0	41.5	51.3	49.3
105°	0.0	10.4	37.0	48.0	48.0
107.5°	0.0	10.4	33.1	48.0	47.4
110°	0.0	9.7	29.2	50.6	47.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	9.7	26.6	53.2	48.7
115°	0.0	9.1	24.0	53.2	51.3
117.5°	0.0	9.1	22.1	50.0	54.5
120°	0.0	9.1	20.1	46.7	55.2
122.5°	0.0	9.1	18.8	42.8	53.9
125°	0.0	9.1	16.9	38.3	48.7
127.5°	0.0	9.1	14.9	34.4	44.1
130°	0.0	8.4	13.6	30.5	38.9
132.5°	0.0	8.4	12.3	26.6	34.4
135°	0.0	7.8	11.0	24.0	31.2
137.5°	0.0	7.1	10.4	20.8	27.3
140°	0.0	7.1	9.7	18.8	24.0
142.5°	0.0	6.5	9.1	16.2	21.4
145°	0.0	5.8	8.4	14.3	18.2
147.5°	0.0	5.2	7.8	12.3	15.6
150°	0.0	4.5	7.1	10.4	13.0
152.5°	0.0	3.9	6.5	9.1	10.4
155°	0.0	3.2	5.2	7.1	8.4
157.5°	0.0	2.6	3.9	5.2	5.8
160°	0.0	1.9	3.2	3.9	3.9
162.5°	0.0	1.3	1.9	1.9	1.9
165°	0.0	0.6	1.3	0.6	0.6
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)