

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: P231874

Luminaire Tested: **FVS4M-2-LD4-40-1LO-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231874
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-LD4-40-1LO-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
2FT LENGTH, 1-MODULE LED WITH P125 LENS
Light Source: (42) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

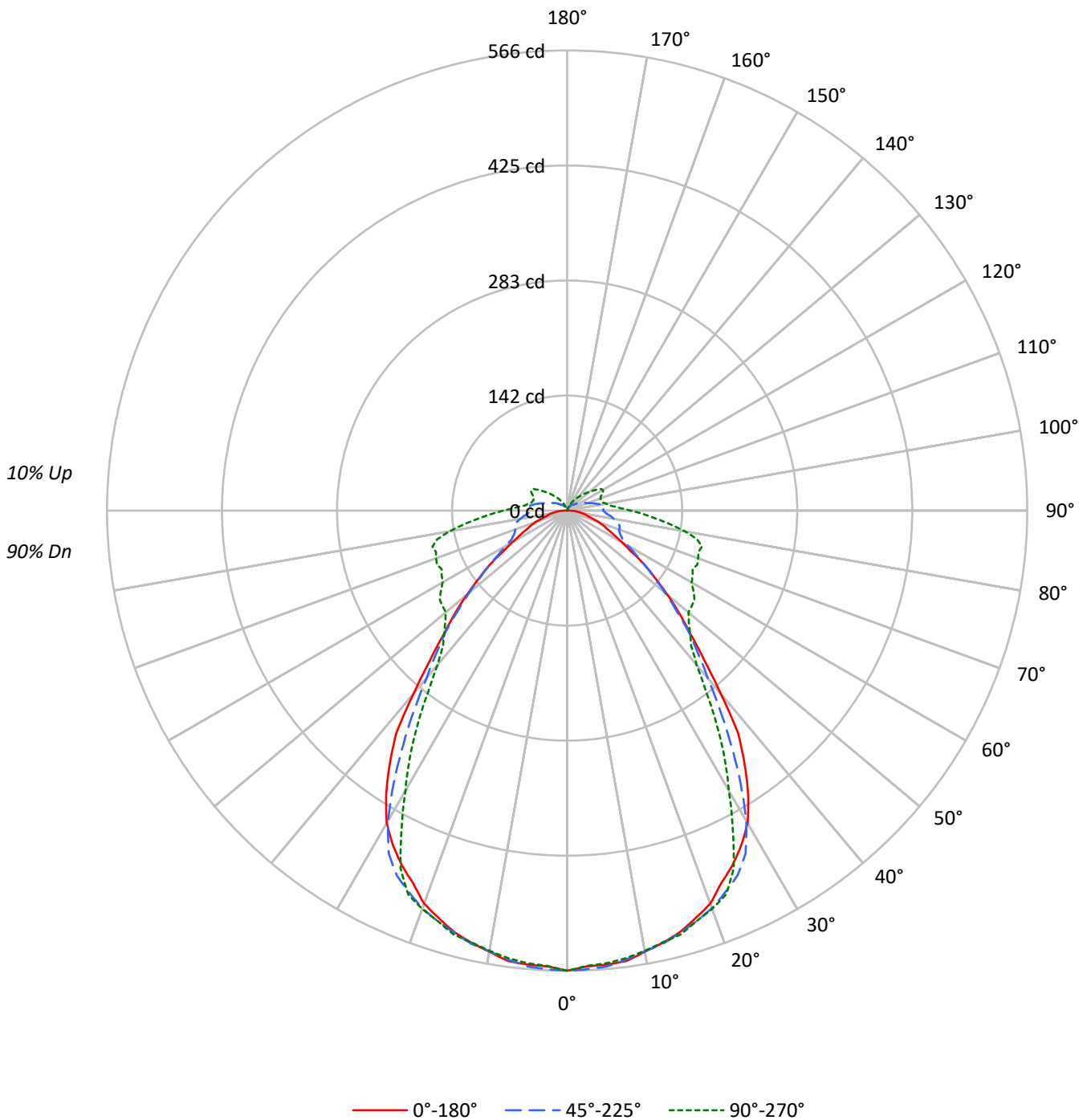
Lumens per Lamp: N/A
Luminaire Lumens: 1316.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.1 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 1.92' x H: 0.19')
CIE Type: Semi-Direct

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	45	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°	10170	10170	10170
5°	10025	9734	9576
10°	9884	9240	9073
15°	9730	8829	8650
20°	9503	8440	8181
25°	9127	7989	7513
30°	8717	7119	6133
35°	7815	5730	4951
40°	6354	4466	3867
45°	4950	3599	3396
50°	4026	2769	3176
55°	3194	2125	3226
60°	2379	1674	3118
65°	1947	1502	3169
70°	1702	1515	3402
75°	1363	1615	3676
80°	1311	1591	3458
85°	1100	1534	2844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	4.0
10°-20°	151.6	11.5
20°-30°	222.3	16.9
30°-40°	219.8	16.7
40°-50°	165.6	12.6
50°-60°	119.4	9.1
60°-70°	94.4	7.2
70°-80°	90.9	6.9
80°-90°	66.9	5.1
90°-100°	40.2	3.1
100°-110°	29.7	2.3
110°-120°	25.2	1.9
120°-130°	18.3	1.4
130°-140°	10.5	0.8
140°-150°	5.5	0.4
150°-160°	2.2	0.2
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	427.2	32.5
0°-40°	647.0	49.2
0°-60°	932.0	70.8
0°-90°	1184.1	90.0
90°-120°	95.1	7.2
90°-150°	129.4	9.8
90°-180°	132.0	10.0
0°-180°	1316.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	566	566	566	566	566	
5°	560	560	563	562	559	53
15°	537	535	537	540	540	151
25°	481	484	496	493	485	221
35°	381	391	351	327	320	235
45°	214	209	212	219	214	168
55°	116	104	116	156	191	103
65°	55	56	73	132	170	56
75°	27	44	66	140	172	30
85°	11	21	49	114	108	10
90°	0	12	44	80	78	1
95°	0	11	46	60	58	0
105°	0	10	34	44	44	0
115°	0	8	22	49	47	0
125°	0	8	16	35	45	0
135°	0	7	10	22	29	0
145°	0	5	8	13	17	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°	565.9	565.9	565.9	565.9	565.9
2.5°	561.1	564.7	564.7	562.3	560.5
5°	560.5	560.5	562.9	561.7	558.7
7.5°	558.7	556.9	556.9	555.2	555.2
10°	551.0	551.0	550.4	552.8	549.8
12.5°	544.4	544.4	545.6	545.0	543.8
15°	536.7	534.9	537.3	539.7	539.7
17.5°	525.4	526.6	529.5	532.5	529.5
20°	514.6	514.6	520.6	521.2	521.2
22.5°	495.6	501.5	508.1	511.7	511.1
25°	481.3	484.3	495.6	493.2	484.9
27.5°	464.0	469.4	475.3	454.5	441.4
30°	443.8	446.7	440.8	406.2	397.9
32.5°	414.6	424.7	396.7	365.7	360.4
35°	380.6	391.3	351.4	327.0	320.5
37.5°	345.5	343.7	308.6	287.7	280.6
40°	293.1	287.7	269.2	259.1	247.8
42.5°	249.6	245.4	238.3	236.5	225.8
45°	213.8	209.1	211.5	218.6	213.8
47.5°	187.0	177.5	182.3	201.3	203.1
50°	160.8	148.3	157.3	183.5	194.8
52.5°	136.4	124.5	134.6	168.0	193.0
55°	116.2	103.6	115.6	155.5	191.2
57.5°	92.9	85.8	99.5	147.1	184.1
60°	77.4	72.1	86.4	141.2	176.9
62.5°	64.9	62.5	77.4	134.6	173.9
65°	55.4	56.0	72.7	132.2	170.4
67.5°	48.2	52.4	69.7	130.4	173.3
70°	41.1	49.4	67.9	134.0	171.5
72.5°	32.2	47.1	67.9	137.6	169.2
75°	26.8	43.5	66.1	140.0	171.5
77.5°	23.2	37.5	63.1	142.4	163.8
80°	19.7	32.2	58.4	141.2	147.1
82.5°	14.9	26.2	54.2	132.2	126.9
85°	11.3	20.8	49.4	113.8	108.4
87.5°	4.8	16.1	46.5	97.1	92.9
90°	0.0	12.5	44.1	80.4	78.0
92.5°	0.0	11.3	44.7	68.5	65.5
95°	0.0	10.7	45.9	60.2	57.8
97.5°	0.0	10.1	45.9	54.2	51.2
100°	0.0	10.1	42.3	49.4	48.8
102.5°	0.0	10.1	38.1	47.1	45.3
105°	0.0	9.5	34.0	44.1	44.1
107.5°	0.0	9.5	30.4	44.1	43.5
110°	0.0	8.9	26.8	46.5	43.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	8.9	24.4	48.8	44.7
115°	0.0	8.3	22.0	48.8	47.1
117.5°	0.0	8.3	20.3	45.9	50.0
120°	0.0	8.3	18.5	42.9	50.6
122.5°	0.0	8.3	17.3	39.3	49.4
125°	0.0	8.3	15.5	35.1	44.7
127.5°	0.0	8.3	13.7	31.6	40.5
130°	0.0	7.7	12.5	28.0	35.7
132.5°	0.0	7.7	11.3	24.4	31.6
135°	0.0	7.1	10.1	22.0	28.6
137.5°	0.0	6.6	9.5	19.1	25.0
140°	0.0	6.6	8.9	17.3	22.0
142.5°	0.0	6.0	8.3	14.9	19.7
145°	0.0	5.4	7.7	13.1	16.7
147.5°	0.0	4.8	7.1	11.3	14.3
150°	0.0	4.2	6.6	9.5	11.9
152.5°	0.0	3.6	6.0	8.3	9.5
155°	0.0	3.0	4.8	6.6	7.7
157.5°	0.0	2.4	3.6	4.8	5.4
160°	0.0	1.8	3.0	3.6	3.6
162.5°	0.0	1.2	1.8	1.8	1.8
165°	0.0	0.6	1.2	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)