

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: P232018

Luminaire Tested: **FVS4M-3-LD4-40-1LO-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4M-3-LD4-40-1LO-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
3FT LENGTH, 1-MODULE LED WITH P125 LENS
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

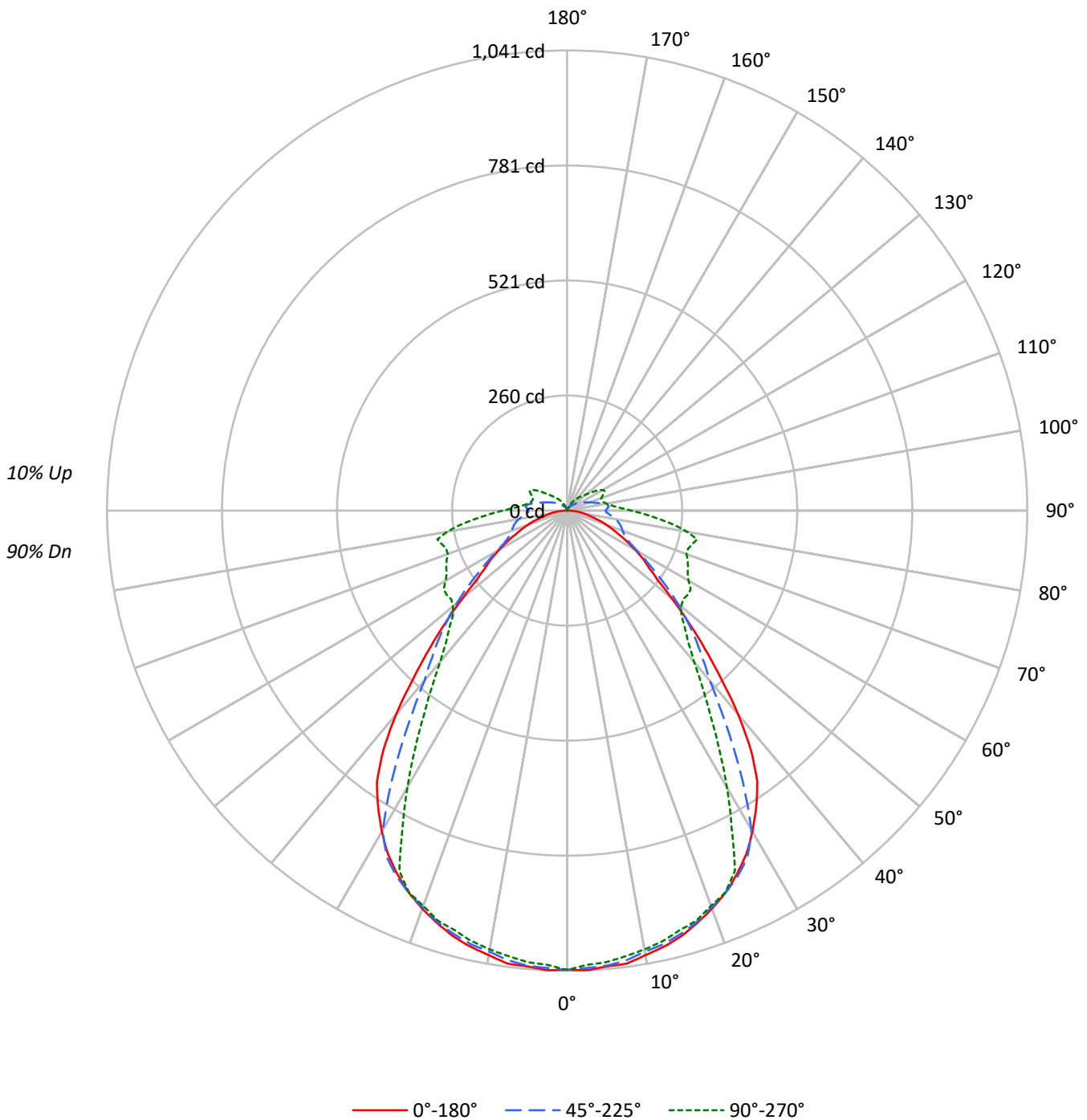
Lumens per Lamp: N/A
Luminaire Lumens: 2478.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

Input Watts (W): 21.3
Input Voltage (V): 120
Input Current (A_{in}): 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

TEST NUMBER: P232018

CATALOG NUMBER: FVS4M-3-LD4-40-1LO-P125-UNV-EDC1

Luminous Intensity Polar Plot





TEST NUMBER: P232018

CATALOG NUMBER: FVS4M-3-LD4-40-1LO-P125-UNV-EDC1

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	71	76	72	68	72	68	65	63
3	89	79	71	65	86	77	69	64	72	66	61	68	63	59	64	60	57	54
4	82	71	62	56	79	69	61	55	65	59	53	62	56	52	58	54	50	48
5	76	64	56	49	73	62	54	49	59	52	47	56	50	46	53	48	44	42
6	71	58	50	44	68	57	49	43	54	47	42	51	45	41	49	44	40	38
7	66	53	45	39	64	52	44	39	50	43	38	47	41	37	45	40	36	34
8	62	49	41	35	60	48	40	35	46	39	34	44	38	33	42	37	33	31
9	58	45	37	32	56	44	37	32	42	36	31	41	35	31	39	34	30	28
10	54	42	34	29	53	41	34	29	39	33	29	38	32	28	36	31	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12269	12269	12269
5°	12201	11764	11549
10°	12105	11220	10931
15°	11983	10771	10352
20°	11769	10251	9813
25°	11489	9761	9147
30°	11025	8947	7318
35°	10350	7132	5732
40°	8806	5559	4573
45°	6887	4665	3935
50°	5268	3841	3611
55°	4266	3002	3688
60°	3781	2383	3673
65°	3212	2055	3686
70°	2779	2011	3747
75°	2300	2062	4130
80°	1929	2058	4251
85°	1507	2030	3545



TEST NUMBER: P232018

CATALOG NUMBER: FVS4M-3-LD4-40-1LO-P125-UNV-EDC1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	4.0
10°-20°	279.5	11.3
20°-30°	413.2	16.7
30°-40°	413.3	16.7
40°-50°	318.7	12.9
50°-60°	236.3	9.5
60°-70°	181.4	7.3
70°-80°	163.8	6.6
80°-90°	127.6	5.1
90°-100°	78.0	3.1
100°-110°	57.4	2.3
110°-120°	48.3	1.9
120°-130°	32.3	1.3
130°-140°	17.9	0.7
140°-150°	9.0	0.4
150°-160°	3.3	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	790.6	31.9
0°-40°	1203.9	48.6
0°-60°	1758.9	71.0
0°-90°	2231.6	90.1
90°-120°	183.6	7.4
90°-150°	242.8	9.8
90°-180°	246.0	9.9
0°-180°	2478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1035	1031	1033	1030	1025	99
15°	997	989	992	989	983	281
25°	908	909	913	914	898	417
35°	750	757	657	588	565	460
45°	439	417	410	401	377	341
55°	226	229	244	292	333	208
65°	131	117	148	242	302	132
75°	62	81	124	235	293	67
85°	19	46	95	216	206	20
90°	0	26	87	152	145	1
95°	0	22	94	113	108	0
105°	0	18	68	85	82	0
115°	0	16	44	93	92	0
125°	0	14	30	61	77	0
135°	0	12	19	37	46	0
145°	0	8	12	22	28	0
155°	0	3	7	11	13	0
165°	1	1	1	1	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P232018

CATALOG NUMBER: FVS4M-3-LD4-40-1LO-P125-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1038.9	1038.9	1038.9	1038.9	1038.9
2.5°	1040.8	1036.3	1035.7	1032.5	1028.6
5°	1035.0	1031.2	1033.1	1029.9	1025.4
7.5°	1033.8	1028.0	1026.0	1017.0	1016.4
10°	1020.9	1019.6	1013.1	1013.1	1008.0
12.5°	1010.6	1005.4	1004.8	1001.5	997.7
15°	997.0	989.3	991.9	989.3	982.8
17.5°	978.3	973.8	975.8	976.4	972.5
20°	958.4	958.4	955.1	960.3	951.3
22.5°	935.8	935.8	935.8	939.7	935.2
25°	908.1	908.7	913.2	914.5	898.4
27.5°	877.1	881.0	883.6	843.0	805.6
30°	838.5	844.9	834.0	750.8	722.5
32.5°	795.9	805.0	745.7	670.3	640.6
35°	750.2	756.6	657.4	588.4	564.6
37.5°	683.2	682.5	572.9	524.6	501.4
40°	602.0	583.9	502.7	466.0	446.0
42.5°	514.9	490.5	453.1	427.9	405.4
45°	438.9	417.0	410.5	400.9	377.0
47.5°	369.3	362.2	368.0	376.4	350.6
50°	308.7	313.2	326.1	342.9	337.1
52.5°	257.8	270.0	283.6	315.8	330.0
55°	226.2	228.8	243.6	292.0	332.6
57.5°	203.7	192.7	212.7	273.3	331.3
60°	177.9	160.5	183.0	259.1	317.1
62.5°	153.4	133.4	161.8	250.1	307.4
65°	130.8	116.7	147.6	241.7	301.6
67.5°	112.1	104.4	139.2	234.6	295.2
70°	94.7	93.5	133.4	230.7	287.4
72.5°	78.0	85.1	128.9	230.1	286.8
75°	62.5	80.6	124.4	235.2	293.2
77.5°	48.3	76.7	117.9	245.5	301.0
80°	38.7	68.3	110.9	251.4	275.2
82.5°	29.6	57.4	103.1	246.2	241.7
85°	19.3	46.4	95.4	215.9	205.6
87.5°	9.0	34.2	88.9	183.0	173.4
90°	0.0	25.8	87.0	152.1	145.0
92.5°	0.0	23.2	90.2	128.9	122.5
95°	0.0	21.9	94.1	112.8	107.6
97.5°	0.0	21.3	93.5	101.8	97.3
100°	0.0	20.6	85.7	93.5	90.9
102.5°	0.0	19.3	76.7	87.7	85.1
105°	0.0	18.0	67.7	85.1	82.5
107.5°	0.0	17.4	60.6	87.0	81.8
110°	0.0	16.1	54.1	90.9	81.8



TEST NUMBER: P232018

CATALOG NUMBER: FVS4M-3-LD4-40-1LO-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	15.5	48.3	94.7	86.4
115°	0.0	15.5	43.8	92.8	91.5
117.5°	0.0	14.8	40.0	86.4	95.4
120°	0.0	14.8	36.1	78.0	93.5
122.5°	0.0	14.2	32.9	69.6	85.7
125°	0.0	14.2	29.6	60.6	76.7
127.5°	0.0	13.5	27.1	54.1	65.7
130°	0.0	12.9	23.8	47.7	57.4
132.5°	0.0	12.9	21.3	42.5	50.9
135°	0.0	11.6	18.7	37.4	45.8
137.5°	0.0	11.0	16.8	33.5	41.2
140°	0.0	9.7	15.5	29.0	36.7
142.5°	0.0	9.0	13.5	25.1	32.9
145°	0.0	7.7	12.2	21.9	28.4
147.5°	0.0	6.4	11.0	19.3	23.8
150°	0.0	5.8	10.3	16.1	19.3
152.5°	0.0	4.5	8.4	13.5	16.1
155°	0.0	3.2	7.1	11.0	12.9
157.5°	0.0	2.6	5.2	7.1	9.0
160°	0.6	1.3	3.9	4.5	5.8
162.5°	0.6	1.3	1.9	1.9	3.2
165°	0.6	0.6	0.6	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)