

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: P232016

Luminaire Tested: **FVS4M-3-LD4-30-1LO-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232016
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-LD4-30-1LO-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
3FT LENGTH, 1-MODULE LED WITH P125 LENS
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

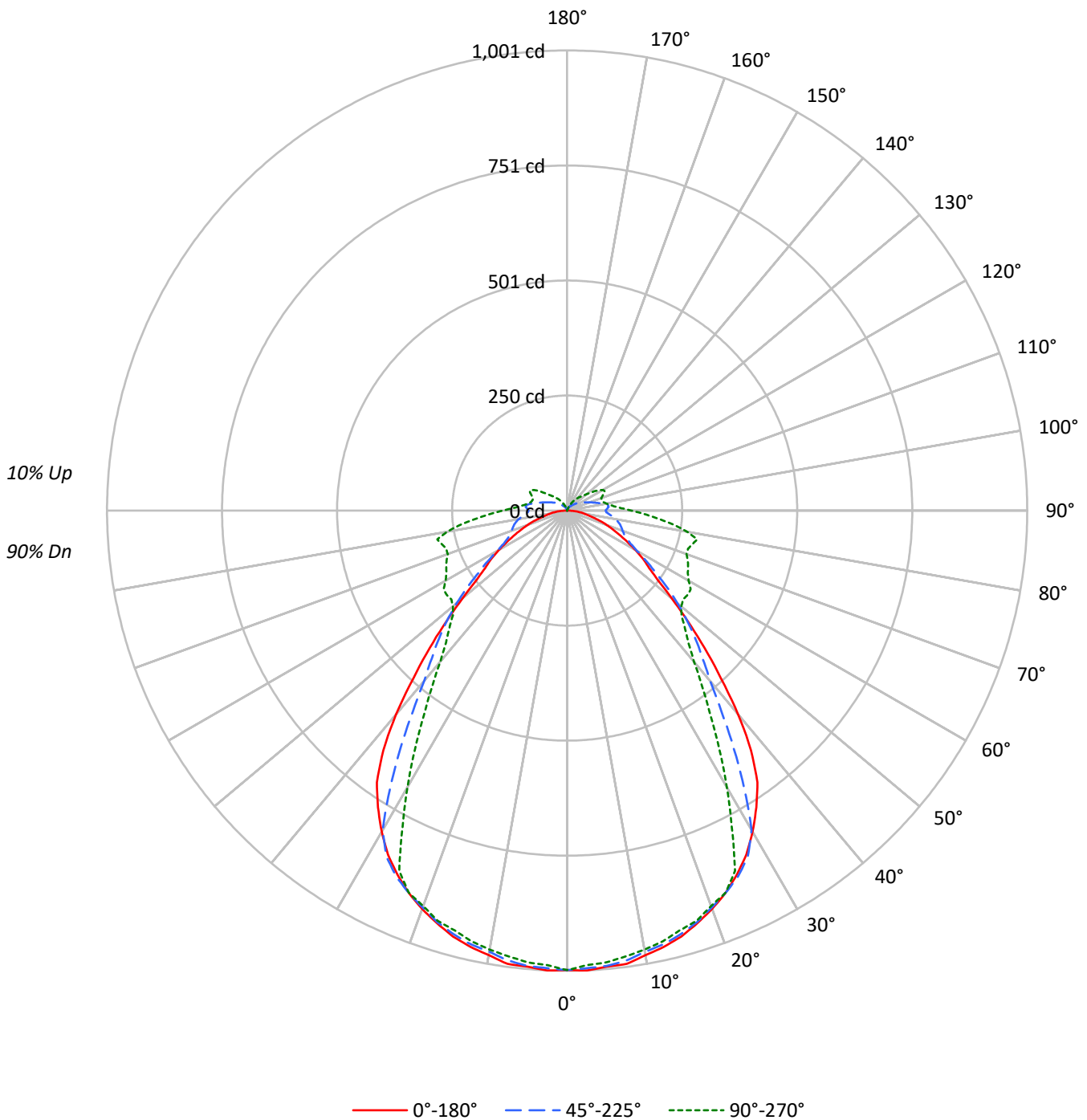
Lumens per Lamp: N/A
Luminaire Lumens: 2384.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

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: P232016

CATALOG NUMBER: FVS4M-3-LD4-30-1LO-P125-UNV-EDC1

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	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°	11804	11804	11804
5°	11739	11317	11111
10°	11645	10794	10516
15°	11529	10362	9960
20°	11322	9862	9440
25°	11052	9391	8800
30°	10607	8607	7040
35°	9956	6861	5514
40°	8471	5348	4400
45°	6625	4489	3786
50°	5068	3695	3474
55°	4103	2888	3547
60°	3636	2293	3534
65°	3092	1977	3546
70°	2673	1934	3605
75°	2212	1984	3974
80°	1854	1979	4090
85°	1453	1953	3411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	4.0
10°-20°	268.9	11.3
20°-30°	397.5	16.7
30°-40°	397.6	16.7
40°-50°	306.6	12.9
50°-60°	227.3	9.5
60°-70°	174.5	7.3
70°-80°	157.5	6.6
80°-90°	122.7	5.1
90°-100°	75.0	3.1
100°-110°	55.2	2.3
110°-120°	46.4	1.9
120°-130°	31.1	1.3
130°-140°	17.2	0.7
140°-150°	8.6	0.4
150°-160°	3.1	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	760.6	31.9
0°-40°	1158.2	48.6
0°-60°	1692.1	71.0
0°-90°	2146.9	90.1
90°-120°	176.7	7.4
90°-150°	233.6	9.8
90°-180°	237.0	9.9
0°-180°	2384.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	996	992	994	991	986	95
15°	959	952	954	952	946	270
25°	874	874	879	880	864	401
35°	722	728	632	566	543	443
45°	422	401	395	386	363	328
55°	218	220	234	281	320	200
65°	126	112	142	232	290	127
75°	60	78	120	226	282	65
85°	19	45	92	208	198	19
90°	0	25	84	146	140	1
95°	0	21	90	108	104	0
105°	0	17	65	82	79	0
115°	0	15	42	89	88	0
125°	0	14	28	58	74	0
135°	0	11	18	36	44	0
145°	0	7	12	21	27	0
155°	0	3	7	10	12	0
165°	1	1	1	1	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P232016

CATALOG NUMBER: FVS4M-3-LD4-30-1LO-P125-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.5	999.5	999.5	999.5	999.5
2.5°	1001.4	997.0	996.4	993.3	989.6
5°	995.8	992.1	993.9	990.8	986.5
7.5°	994.5	989.0	987.1	978.4	977.8
10°	982.1	980.9	974.7	974.7	969.7
12.5°	972.2	967.3	966.6	963.5	959.8
15°	959.2	951.8	954.2	951.8	945.6
17.5°	941.2	936.9	938.7	939.4	935.6
20°	922.0	922.0	918.9	923.9	915.2
22.5°	900.3	900.3	900.3	904.0	899.7
25°	873.6	874.3	878.6	879.8	864.3
27.5°	843.9	847.6	850.1	811.0	775.0
30°	806.7	812.9	802.3	722.3	695.1
32.5°	765.7	774.4	717.4	644.8	616.3
35°	721.7	727.9	632.4	566.1	543.2
37.5°	657.2	656.6	551.2	504.7	482.4
40°	579.1	561.8	483.6	448.3	429.1
42.5°	495.4	471.9	435.9	411.7	390.0
45°	422.2	401.2	395.0	385.7	362.7
47.5°	355.3	348.5	354.0	362.1	337.3
50°	297.0	301.3	313.7	329.9	324.3
52.5°	248.0	259.8	272.8	303.8	317.5
55°	217.6	220.1	234.4	280.9	319.9
57.5°	195.9	185.4	204.6	262.9	318.7
60°	171.1	154.4	176.1	249.3	305.1
62.5°	147.6	128.3	155.6	240.6	295.8
65°	125.9	112.2	142.0	232.5	290.2
67.5°	107.9	100.4	133.9	225.7	284.0
70°	91.1	89.9	128.3	222.0	276.5
72.5°	75.0	81.8	124.0	221.4	275.9
75°	60.1	77.5	119.7	226.3	282.1
77.5°	46.5	73.8	113.5	236.2	289.6
80°	37.2	65.7	106.6	241.8	264.8
82.5°	28.5	55.2	99.2	236.9	232.5
85°	18.6	44.6	91.8	207.7	197.8
87.5°	8.7	32.9	85.6	176.1	166.8
90°	0.0	24.8	83.7	146.3	139.5
92.5°	0.0	22.3	86.8	124.0	117.8
95°	0.0	21.1	90.5	108.5	103.5
97.5°	0.0	20.5	89.9	98.0	93.6
100°	0.0	19.8	82.5	89.9	87.4
102.5°	0.0	18.6	73.8	84.3	81.8
105°	0.0	17.4	65.1	81.8	79.4
107.5°	0.0	16.7	58.3	83.7	78.7
110°	0.0	15.5	52.1	87.4	78.7



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CATALOG NUMBER: FVS4M-3-LD4-30-1LO-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	14.9	46.5	91.1	83.1
115°	0.0	14.9	42.2	89.3	88.0
117.5°	0.0	14.3	38.4	83.1	91.8
120°	0.0	14.3	34.7	75.0	89.9
122.5°	0.0	13.6	31.6	67.0	82.5
125°	0.0	13.6	28.5	58.3	73.8
127.5°	0.0	13.0	26.0	52.1	63.2
130°	0.0	12.4	22.9	45.9	55.2
132.5°	0.0	12.4	20.5	40.9	49.0
135°	0.0	11.2	18.0	36.0	44.0
137.5°	0.0	10.5	16.1	32.2	39.7
140°	0.0	9.3	14.9	27.9	35.3
142.5°	0.0	8.7	13.0	24.2	31.6
145°	0.0	7.4	11.8	21.1	27.3
147.5°	0.0	6.2	10.5	18.6	22.9
150°	0.0	5.6	9.9	15.5	18.6
152.5°	0.0	4.3	8.1	13.0	15.5
155°	0.0	3.1	6.8	10.5	12.4
157.5°	0.0	2.5	5.0	6.8	8.7
160°	0.6	1.2	3.7	4.3	5.6
162.5°	0.6	1.2	1.9	1.9	3.1
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)