

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: P231872

Luminaire Tested: **FVS4M-2-LD4-30-1LO-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231872
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-LD4-30-1LO-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
2FT LENGTH, 1-MODULE LED WITH P125 LENS
Light Source: (42) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

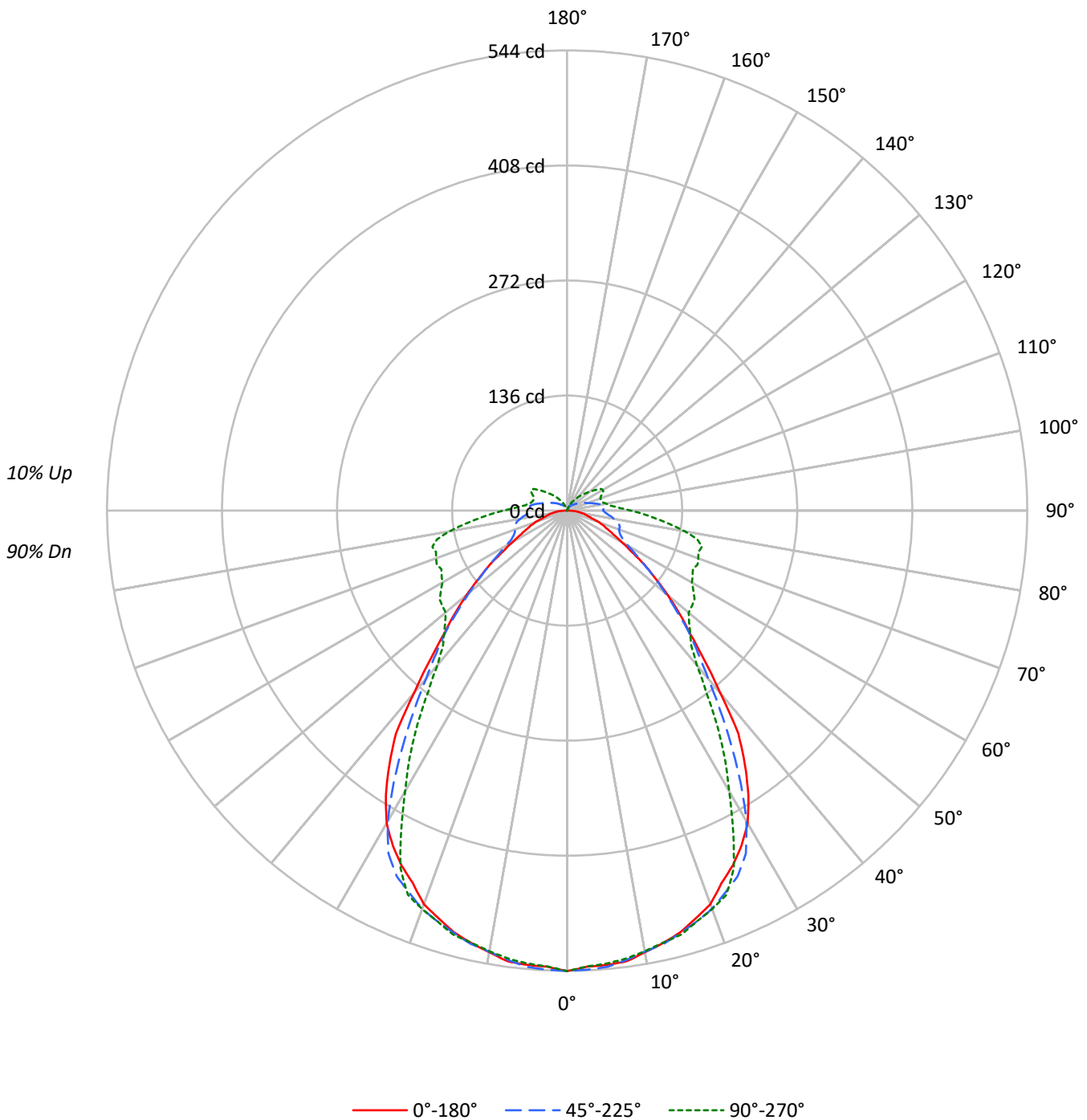
Lumens per Lamp: N/A
Luminaire Lumens: 1266.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.1 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 1.92' x H: 0.19')
CIE Type: Semi-Direct

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

TEST NUMBER: P231872

CATALOG NUMBER: FVS4M-2-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	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°	9783	9783	9783
5°	9644	9364	9213
10°	9509	8889	8728
15°	9360	8494	8322
20°	9143	8119	7870
25°	8780	7686	7226
30°	8385	6848	5900
35°	7519	5513	4763
40°	6112	4297	3720
45°	4762	3461	3267
50°	3874	2664	3055
55°	3071	2044	3103
60°	2290	1610	3000
65°	1873	1444	3048
70°	1636	1457	3273
75°	1312	1554	3537
80°	1258	1531	3326
85°	1061	1478	2737



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	4.0
10°-20°	145.9	11.5
20°-30°	213.9	16.9
30°-40°	211.5	16.7
40°-50°	159.3	12.6
50°-60°	114.8	9.1
60°-70°	90.8	7.2
70°-80°	87.4	6.9
80°-90°	64.3	5.1
90°-100°	38.7	3.1
100°-110°	28.5	2.3
110°-120°	24.3	1.9
120°-130°	17.6	1.4
130°-140°	10.1	0.8
140°-150°	5.3	0.4
150°-160°	2.1	0.2
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	411.0	32.5
0°-40°	622.5	49.2
0°-60°	896.6	70.8
0°-90°	1139.2	90.0
90°-120°	91.5	7.2
90°-150°	124.5	9.8
90°-180°	127.0	10.0
0°-180°	1266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	544	544	544	544	544	
5°	539	539	542	540	538	51
15°	516	515	517	519	519	145
25°	463	466	477	474	466	213
35°	366	376	338	315	308	226
45°	206	201	203	210	206	162
55°	112	100	111	150	184	100
65°	53	54	70	127	164	54
75°	26	42	64	135	165	29
85°	11	20	48	109	104	10
90°	0	12	42	77	75	1
95°	0	10	44	58	56	0
105°	0	9	33	42	42	0
115°	0	8	21	47	45	0
125°	0	8	15	34	43	0
135°	0	7	10	21	28	0
145°	0	5	7	13	16	0
155°	0	3	5	6	7	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°	544.4	544.4	544.4	544.4	544.4
2.5°	539.8	543.2	543.2	540.9	539.2
5°	539.2	539.2	541.5	540.4	537.5
7.5°	537.5	535.8	535.8	534.1	534.1
10°	530.1	530.1	529.5	531.8	528.9
12.5°	523.7	523.7	524.9	524.3	523.2
15°	516.3	514.6	516.9	519.2	519.2
17.5°	505.4	506.6	509.4	512.3	509.4
20°	495.1	495.1	500.8	501.4	501.4
22.5°	476.8	482.5	488.8	492.2	491.7
25°	463.0	465.9	476.8	474.5	466.4
27.5°	446.4	451.5	457.3	437.2	424.6
30°	426.9	429.8	424.0	390.8	382.8
32.5°	398.8	408.6	381.6	351.8	346.7
35°	366.2	376.5	338.1	314.6	308.3
37.5°	332.4	330.6	296.8	276.8	269.9
40°	281.9	276.8	259.0	249.3	238.4
42.5°	240.1	236.1	229.2	227.5	217.2
45°	205.7	201.1	203.4	210.3	205.7
47.5°	179.9	170.8	175.3	193.7	195.4
50°	154.7	142.7	151.3	176.5	187.4
52.5°	131.2	119.8	129.5	161.6	185.7
55°	111.7	99.7	111.2	149.6	183.9
57.5°	89.4	82.5	95.7	141.5	177.1
60°	74.5	69.3	83.1	135.8	170.2
62.5°	62.5	60.2	74.5	129.5	167.3
65°	53.3	53.9	69.9	127.2	163.9
67.5°	46.4	50.4	67.0	125.5	166.8
70°	39.5	47.6	65.3	128.9	165.0
72.5°	30.9	45.3	65.3	132.4	162.7
75°	25.8	41.8	63.6	134.7	165.0
77.5°	22.3	36.1	60.7	137.0	157.6
80°	18.9	30.9	56.2	135.8	141.5
82.5°	14.3	25.2	52.1	127.2	122.1
85°	10.9	20.1	47.6	109.4	104.3
87.5°	4.6	15.5	44.7	93.4	89.4
90°	0.0	12.0	42.4	77.4	75.1
92.5°	0.0	10.9	43.0	65.9	63.0
95°	0.0	10.3	44.1	57.9	55.6
97.5°	0.0	9.7	44.1	52.1	49.3
100°	0.0	9.7	40.7	47.6	47.0
102.5°	0.0	9.7	36.7	45.3	43.6
105°	0.0	9.2	32.7	42.4	42.4
107.5°	0.0	9.2	29.2	42.4	41.8
110°	0.0	8.6	25.8	44.7	41.8



TEST NUMBER: P231872

CATALOG NUMBER: FVS4M-2-LD4-30-1LO-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	8.6	23.5	47.0	43.0
115°	0.0	8.0	21.2	47.0	45.3
117.5°	0.0	8.0	19.5	44.1	48.1
120°	0.0	8.0	17.8	41.3	48.7
122.5°	0.0	8.0	16.6	37.8	47.6
125°	0.0	8.0	14.9	33.8	43.0
127.5°	0.0	8.0	13.2	30.4	39.0
130°	0.0	7.4	12.0	26.9	34.4
132.5°	0.0	7.4	10.9	23.5	30.4
135°	0.0	6.9	9.7	21.2	27.5
137.5°	0.0	6.3	9.2	18.3	24.1
140°	0.0	6.3	8.6	16.6	21.2
142.5°	0.0	5.7	8.0	14.3	18.9
145°	0.0	5.2	7.4	12.6	16.0
147.5°	0.0	4.6	6.9	10.9	13.8
150°	0.0	4.0	6.3	9.2	11.5
152.5°	0.0	3.4	5.7	8.0	9.2
155°	0.0	2.9	4.6	6.3	7.4
157.5°	0.0	2.3	3.4	4.6	5.2
160°	0.0	1.7	2.9	3.4	3.4
162.5°	0.0	1.1	1.7	1.7	1.7
165°	0.0	0.6	1.1	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)