

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: P231945

Luminaire Tested: **FVS4M-4-LD4-35-1LO-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-13)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4M-4-LD4-35-1LO-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
4FT LENGTH, 1-MODULE LED WITH P125 LENS
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

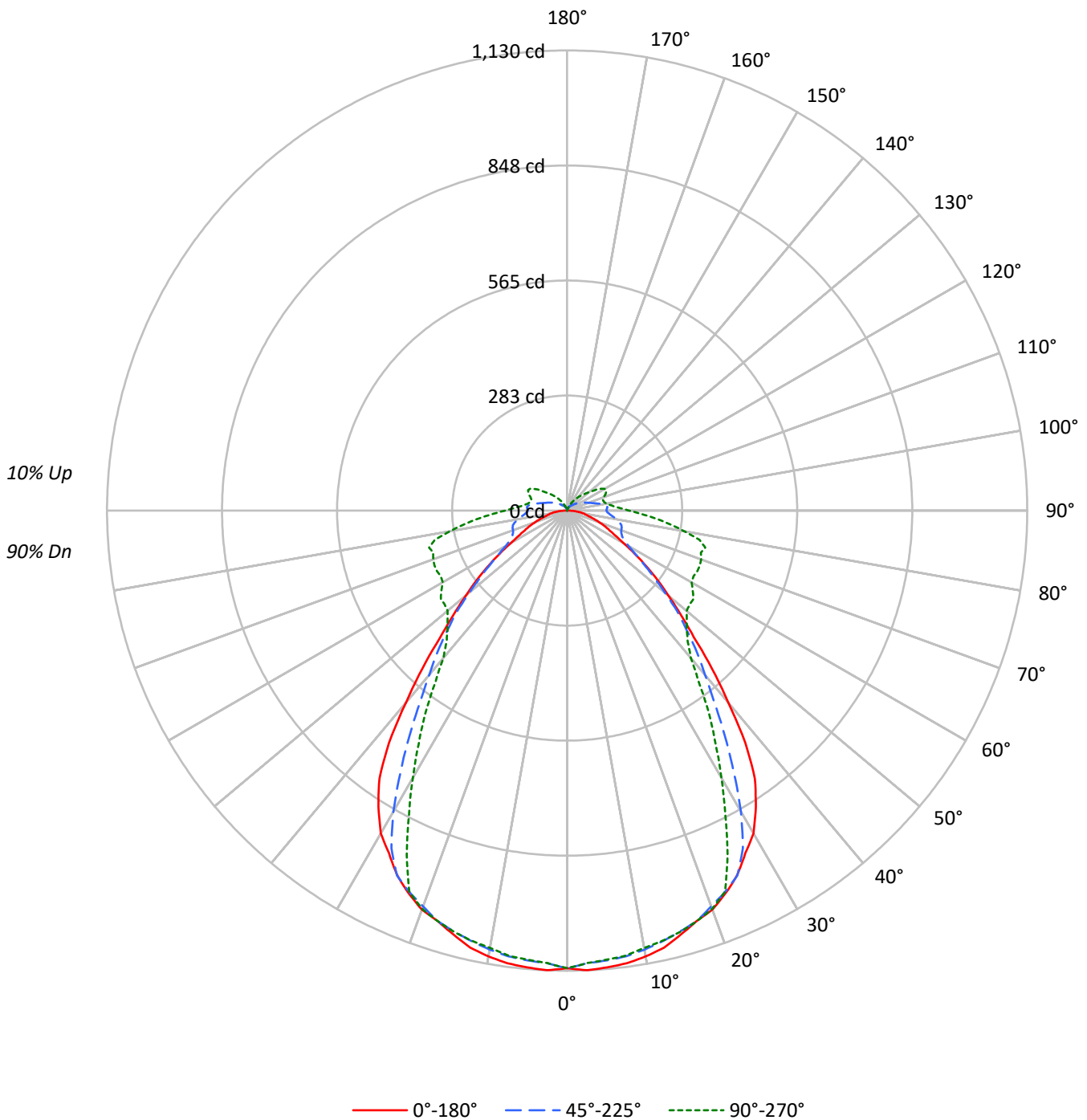
Lumens per Lamp: N/A
Luminaire Lumens: 2643.0 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.07 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 3.79' x H: 0.19')
CIE Type: Semi-Direct

Input Watts (W): 23.6
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: P231945

CATALOG NUMBER: FVS4M-4-LD4-35-1LO-P125-UNV-EDC1

Luminous Intensity Polar Plot





TEST NUMBER: P231945

CATALOG NUMBER: FVS4M-4-LD4-35-1LO-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	105	105	105	99	99	99	93	93	93	90
1	106	101	96	92	102	97	93	90	91	88	85	86	83	81	80	78	76	74
2	97	89	82	76	93	86	80	74	81	76	71	76	72	68	71	68	65	62
3	89	79	71	65	86	76	69	63	72	66	61	68	63	59	64	60	56	54
4	82	71	62	56	79	69	61	55	65	58	53	61	56	51	58	54	50	47
5	76	64	55	49	73	62	54	48	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	36	60	48	40	35	46	39	34	44	38	34	42	37	33	31
9	58	45	38	32	56	44	37	32	42	36	31	41	35	31	39	34	30	28
10	55	42	35	30	53	41	34	29	40	33	29	38	32	28	37	31	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10208	10208	10208
5°	10225	9721	9592
10°	10167	9341	9096
15°	10005	8962	8681
20°	9903	8569	8260
25°	9681	8162	7301
30°	9331	7077	5905
35°	8615	5661	4734
40°	7017	4507	3730
45°	5396	3661	3334
50°	4327	2863	3157
55°	3476	2202	3232
60°	2668	1758	3143
65°	2231	1610	3316
70°	1976	1663	3514
75°	1674	1785	3803
80°	1655	1787	3457
85°	1465	1756	2872



TEST NUMBER: P231945

CATALOG NUMBER: FVS4M-4-LD4-35-1LO-P125-UNV-EDC1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	4.0
10°-20°	303.4	11.5
20°-30°	443.0	16.8
30°-40°	432.2	16.4
40°-50°	330.7	12.5
50°-60°	239.7	9.1
60°-70°	193.3	7.3
70°-80°	188.0	7.1
80°-90°	135.6	5.1
90°-100°	82.6	3.1
100°-110°	62.5	2.4
110°-120°	53.5	2.0
120°-130°	37.1	1.4
130°-140°	20.7	0.8
140°-150°	10.4	0.4
150°-160°	3.9	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	852.3	32.2
0°-40°	1284.5	48.6
0°-60°	1855.0	70.2
0°-90°	2371.8	89.7
90°-120°	198.6	7.5
90°-150°	266.8	10.1
90°-180°	271.0	10.3
0°-180°	2643.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1126	1118	1109	1111	1107	107
15°	1078	1082	1070	1074	1071	304
25°	988	990	989	967	932	453
35°	804	782	675	619	606	491
45°	441	432	416	427	415	348
55°	235	215	230	306	379	212
65°	115	115	149	271	353	116
75°	56	90	138	293	351	62
85°	22	43	105	226	216	21
90°	1	25	96	158	152	2
95°	1	23	99	120	116	0
105°	1	20	70	96	92	1
115°	1	18	46	101	105	1
125°	1	17	32	70	91	1
135°	1	13	20	43	56	0
145°	1	9	14	26	33	0
155°	1	5	8	11	15	1
165°	1	2	2	1	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P231945

CATALOG NUMBER: FVS4M-4-LD4-35-1LO-P125-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1123.7	1123.7	1123.7	1123.7	1123.7
2.5°	1129.7	1123.1	1113.0	1116.0	1112.4
5°	1126.1	1117.8	1108.8	1111.2	1107.1
7.5°	1121.3	1111.2	1104.1	1105.9	1102.3
10°	1111.8	1104.1	1094.6	1096.4	1090.4
12.5°	1099.3	1090.4	1083.3	1086.2	1082.1
15°	1077.9	1081.5	1070.2	1074.3	1071.4
17.5°	1057.1	1064.8	1057.1	1061.3	1057.1
20°	1042.8	1040.4	1034.5	1047.6	1041.0
22.5°	1017.2	1016.6	1013.7	1022.0	1013.1
25°	988.1	989.9	988.7	967.3	932.2
27.5°	948.2	956.0	934.6	869.1	841.2
30°	914.9	917.9	853.6	785.8	757.9
32.5°	862.6	865.5	762.0	697.2	678.2
35°	803.7	781.7	674.6	618.7	606.2
37.5°	718.6	681.7	593.1	556.8	531.2
40°	616.3	581.8	526.5	502.1	472.9
42.5°	526.5	500.9	471.1	462.2	438.4
45°	440.8	432.5	415.8	427.1	415.2
47.5°	377.7	367.6	366.4	391.4	398.0
50°	324.2	308.1	313.5	357.5	383.1
52.5°	279.6	258.2	267.7	329.6	378.9
55°	235.0	215.3	230.2	306.4	378.9
57.5°	195.7	177.3	198.7	295.7	365.8
60°	159.4	148.7	173.7	282.6	352.8
62.5°	133.8	128.5	157.6	273.0	349.8
65°	114.8	114.8	148.7	270.7	352.8
67.5°	99.3	105.3	144.0	274.2	352.8
70°	84.5	99.9	141.6	280.8	350.4
72.5°	69.6	95.8	140.4	287.3	344.4
75°	56.5	90.4	138.0	293.3	351.0
77.5°	47.0	79.7	130.9	293.9	333.1
80°	40.5	67.2	123.1	292.7	290.9
82.5°	31.5	55.3	113.0	266.5	254.0
85°	22.0	43.4	105.3	225.5	216.5
87.5°	10.1	33.3	98.7	188.6	180.8
90°	0.6	25.0	96.4	158.2	151.7
92.5°	0.6	23.2	97.6	137.4	130.9
95°	0.6	22.6	99.3	120.2	116.0
97.5°	0.6	22.0	95.8	108.3	105.9
100°	0.6	21.4	88.0	100.5	98.2
102.5°	0.6	20.8	78.5	96.4	94.0
105°	0.6	20.2	69.6	96.4	91.6
107.5°	0.6	19.6	61.9	99.3	92.2
110°	0.6	19.0	55.9	102.9	95.8



TEST NUMBER: P231945

CATALOG NUMBER: FVS4M-4-LD4-35-1LO-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	18.4	50.6	104.1	101.1
115°	0.6	17.8	45.8	101.1	105.3
117.5°	0.6	17.8	42.2	94.0	108.3
120°	0.6	17.3	38.7	86.9	106.5
122.5°	0.6	17.3	35.1	79.1	99.9
125°	0.6	16.7	31.5	70.2	91.0
127.5°	0.6	16.1	28.6	63.1	79.7
130°	0.6	15.5	25.6	55.9	70.8
132.5°	0.6	14.3	23.2	49.4	62.5
135°	0.6	13.1	20.2	43.4	55.9
137.5°	0.6	11.9	18.4	38.1	49.4
140°	0.6	11.3	16.7	33.3	43.4
142.5°	0.6	10.1	14.9	29.7	38.1
145°	0.6	8.9	13.7	25.6	32.7
147.5°	0.6	8.3	13.1	22.0	27.4
150°	0.6	7.1	11.9	17.8	22.6
152.5°	1.2	5.9	10.1	14.3	18.4
155°	1.2	4.8	8.3	11.3	14.9
157.5°	1.2	3.6	7.1	7.7	10.7
160°	1.2	3.0	5.4	4.8	7.1
162.5°	1.2	1.8	3.6	2.4	4.2
165°	1.2	1.8	1.8	1.2	1.2
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)