

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: P231880

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231880
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-LD4-30-1HI-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

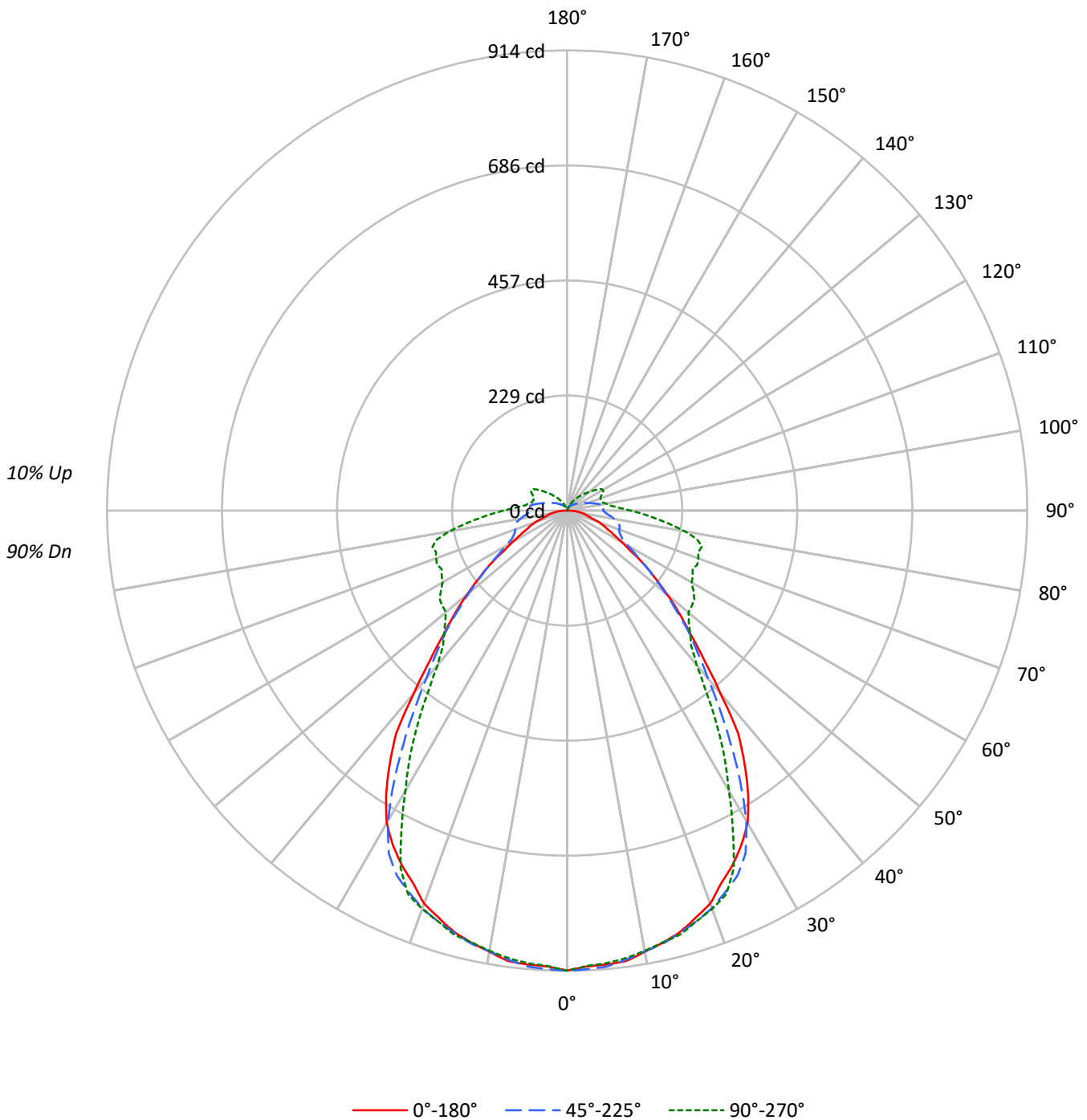
Lumens per Lamp: N/A
Luminaire Lumens: 2125.0 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.1 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 1.92' x H: 0.19')
CIE Type: Semi-Direct

Input Watts (W): 22.2
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: P231880

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

Luminous Intensity Polar Plot





TEST NUMBER: P231880

CATALOG NUMBER: FVS4M-2-LD4-30-1HI-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	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	62	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°	16420	16420	16420
5°	16189	15718	15464
10°	15960	14919	14651
15°	15711	14257	13967
20°	15346	13628	13210
25°	14739	12899	12130
30°	14075	11496	9902
35°	12619	9253	7995
40°	10259	7212	6243
45°	7994	5812	5485
50°	6503	4470	5127
55°	5157	3430	5209
60°	3842	2703	5036
65°	3146	2423	5116
70°	2750	2445	5495
75°	2202	2610	5938
80°	2110	2569	5585
85°	1781	2478	4595



TEST NUMBER: P231880

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	4.0
10°-20°	244.8	11.5
20°-30°	359.0	16.9
30°-40°	355.0	16.7
40°-50°	267.4	12.6
50°-60°	192.7	9.1
60°-70°	152.4	7.2
70°-80°	146.7	6.9
80°-90°	108.0	5.1
90°-100°	65.0	3.1
100°-110°	47.9	2.3
110°-120°	40.7	1.9
120°-130°	29.6	1.4
130°-140°	16.9	0.8
140°-150°	8.9	0.4
150°-160°	3.5	0.2
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	689.8	32.5
0°-40°	1044.8	49.2
0°-60°	1504.9	70.8
0°-90°	1912.1	90.0
90°-120°	153.6	7.2
90°-150°	209.0	9.8
90°-180°	213.0	10.0
0°-180°	2125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	905	905	909	907	902	86
15°	867	864	868	871	871	244
25°	777	782	800	796	783	357
35°	615	632	568	528	518	380
45°	345	338	342	353	345	272
55°	188	167	187	251	309	167
65°	90	90	117	214	275	91
75°	43	70	107	226	277	48
85°	18	34	80	184	175	17
90°	0	20	71	130	126	1
95°	0	17	74	97	93	0
105°	0	15	55	71	71	0
115°	0	14	36	79	76	0
125°	0	14	25	57	72	0
135°	0	12	16	36	46	0
145°	0	9	12	21	27	0
155°	0	5	8	11	12	0
165°	0	1	2	1	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P231880

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	913.7	913.7	913.7	913.7	913.7
2.5°	906.0	911.8	911.8	908.0	905.1
5°	905.1	905.1	908.9	907.0	902.2
7.5°	902.2	899.3	899.3	896.4	896.4
10°	889.7	889.7	888.7	892.6	887.8
12.5°	879.1	879.1	881.0	880.1	878.2
15°	866.6	863.7	867.6	871.4	871.4
17.5°	848.3	850.3	855.1	859.9	855.1
20°	831.0	831.0	840.6	841.6	841.6
22.5°	800.2	809.9	820.4	826.2	825.3
25°	777.2	782.0	800.2	796.4	782.9
27.5°	749.3	757.9	767.5	733.9	712.7
30°	716.6	721.4	711.8	656.0	642.5
32.5°	669.4	685.8	640.6	590.6	581.9
35°	614.6	631.9	567.5	528.0	517.5
37.5°	557.9	555.0	498.2	464.6	453.0
40°	473.2	464.6	434.7	418.4	400.1
42.5°	403.0	396.3	384.7	381.8	364.5
45°	345.3	337.6	341.5	353.0	345.3
47.5°	302.0	286.6	294.3	325.1	328.0
50°	259.7	239.5	253.9	296.2	314.5
52.5°	220.3	201.0	217.4	271.2	311.6
55°	187.6	167.4	186.6	251.0	308.7
57.5°	150.0	138.5	160.6	237.6	297.2
60°	125.0	116.4	139.5	228.0	285.7
62.5°	104.8	101.0	125.0	217.4	280.9
65°	89.5	90.4	117.3	213.5	275.1
67.5°	77.9	84.6	112.5	210.6	279.9
70°	66.4	79.8	109.6	216.4	277.0
72.5°	51.9	76.0	109.6	222.2	273.2
75°	43.3	70.2	106.8	226.0	277.0
77.5°	37.5	60.6	102.0	229.9	264.5
80°	31.7	51.9	94.3	228.0	237.6
82.5°	24.0	42.3	87.5	213.5	204.9
85°	18.3	33.7	79.8	183.7	175.1
87.5°	7.7	26.0	75.0	156.8	150.0
90°	0.0	20.2	71.2	129.8	126.0
92.5°	0.0	18.3	72.1	110.6	105.8
95°	0.0	17.3	74.1	97.1	93.3
97.5°	0.0	16.4	74.1	87.5	82.7
100°	0.0	16.4	68.3	79.8	78.9
102.5°	0.0	16.4	61.6	76.0	73.1
105°	0.0	15.4	54.8	71.2	71.2
107.5°	0.0	15.4	49.1	71.2	70.2
110°	0.0	14.4	43.3	75.0	70.2



TEST NUMBER: P231880

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	14.4	39.4	78.9	72.1
115°	0.0	13.5	35.6	78.9	76.0
117.5°	0.0	13.5	32.7	74.1	80.8
120°	0.0	13.5	29.8	69.3	81.8
122.5°	0.0	13.5	27.9	63.5	79.8
125°	0.0	13.5	25.0	56.7	72.1
127.5°	0.0	13.5	22.1	51.0	65.4
130°	0.0	12.5	20.2	45.2	57.7
132.5°	0.0	12.5	18.3	39.4	51.0
135°	0.0	11.5	16.4	35.6	46.2
137.5°	0.0	10.6	15.4	30.8	40.4
140°	0.0	10.6	14.4	27.9	35.6
142.5°	0.0	9.6	13.5	24.0	31.7
145°	0.0	8.7	12.5	21.2	26.9
147.5°	0.0	7.7	11.5	18.3	23.1
150°	0.0	6.7	10.6	15.4	19.2
152.5°	0.0	5.8	9.6	13.5	15.4
155°	0.0	4.8	7.7	10.6	12.5
157.5°	0.0	3.8	5.8	7.7	8.7
160°	0.0	2.9	4.8	5.8	5.8
162.5°	0.0	1.9	2.9	2.9	2.9
165°	0.0	1.0	1.9	1.0	1.0
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)