

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: P231954

Luminaire Tested: **FVS4M-4-LD4-40-1HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P231954  
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-LD4-40-1HI-P125-UNV-EDC1  
Description: FAILSAFE FVS LED FIXTURE  
4FT LENGTH, 1-MODULE LED WITH P125 LENS  
Light Source: (84) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

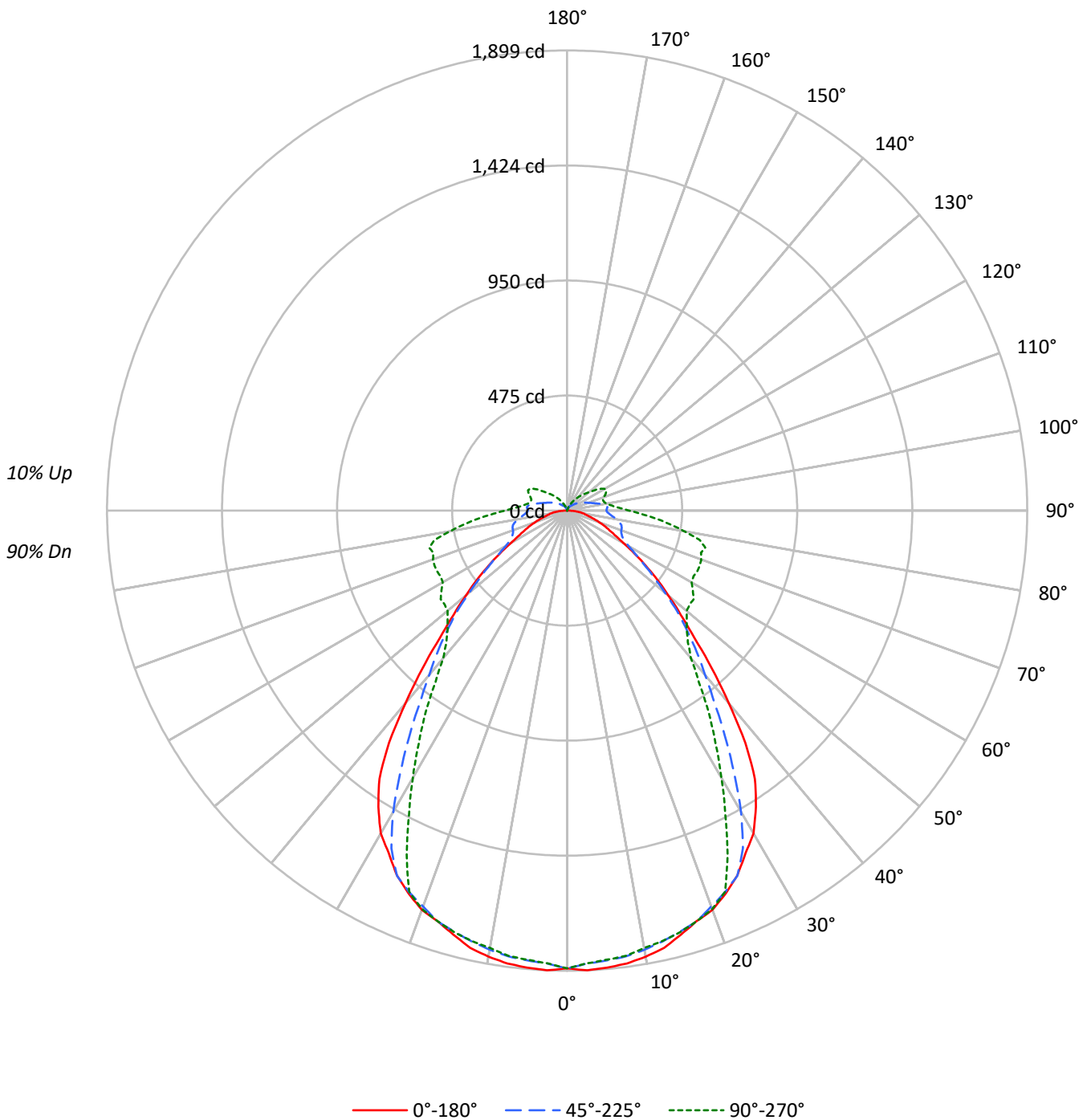
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4442.9 lumens  
Efficiency: N/A  
Efficacy: 99.8 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): 44.5  
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: P231954

CATALOG NUMBER: FVS4M-4-LD4-40-1HI-P125-UNV-EDC1

### Luminous Intensity Polar Plot





TEST NUMBER: P231954

CATALOG NUMBER: FVS4M-4-LD4-40-1HI-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	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°	17160	17160	17160
5°	17188	16341	16124
10°	17091	15701	15291
15°	16819	15065	14592
20°	16647	14404	13885
25°	16274	13721	12273
30°	15685	11898	9925
35°	14481	9516	7957
40°	11796	7576	6271
45°	9071	6154	5605
50°	7274	4814	5307
55°	5843	3702	5433
60°	4485	2955	5283
65°	3751	2707	5574
70°	3320	2795	5907
75°	2815	3000	6393
80°	2778	3004	5810
85°	2464	2952	4828



TEST NUMBER: P231954

CATALOG NUMBER: FVS4M-4-LD4-40-1HI-P125-UNV-EDC1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.0	4.0
10°-20°	510.0	11.5
20°-30°	744.7	16.8
30°-40°	726.5	16.4
40°-50°	556.0	12.5
50°-60°	403.0	9.1
60°-70°	325.0	7.3
70°-80°	316.1	7.1
80°-90°	227.9	5.1
90°-100°	138.9	3.1
100°-110°	105.1	2.4
110°-120°	89.9	2.0
120°-130°	62.3	1.4
130°-140°	34.8	0.8
140°-150°	17.5	0.4
150°-160°	6.5	0.1
160°-170°	0.9	0.0
170°-180°	0.0	0.0
0°-30°	1432.8	32.2
0°-40°	2159.3	48.6
0°-60°	3118.2	70.2
0°-90°	3987.1	89.7
90°-120°	333.9	7.5
90°-150°	448.5	10.1
90°-180°	456.0	10.3
0°-180°	4442.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1889	1889	1889	1889	1889	
5°	1893	1879	1864	1868	1861	180
15°	1812	1818	1799	1806	1801	512
25°	1661	1664	1662	1626	1567	762
35°	1351	1314	1134	1040	1019	826
45°	741	727	699	718	698	586
55°	395	362	387	515	637	357
65°	193	193	250	455	593	195
75°	95	152	232	493	590	104
85°	37	73	177	379	364	36
90°	1	42	162	266	255	3
95°	1	38	167	202	195	1
105°	1	34	117	162	154	1
115°	1	30	77	170	177	1
125°	1	28	53	118	153	1
135°	1	22	34	73	94	1
145°	1	15	23	43	55	1
155°	2	8	14	19	25	1
165°	2	3	3	2	2	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P231954

CATALOG NUMBER: FVS4M-4-LD4-40-1HI-P125-UNV-EDC1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1889	1889	1889	1889	1889
2.5°	1899	1888	1871	1876	1870
5°	1893	1879	1864	1868	1861
7.5°	1885	1868	1856	1859	1853
10°	1869	1856	1840	1843	1833
12.5°	1848	1833	1821	1826	1819
15°	1812	1818	1799	1806	1801
17.5°	1777	1790	1777	1784	1777
20°	1753	1749	1739	1761	1750
22.5°	1710	1709	1704	1718	1703
25°	1661	1664	1662	1626	1567
27.5°	1594	1607	1571	1461	1414
30°	1538	1543	1435	1321	1274
32.5°	1450	1455	1281	1172	1140
35°	1351	1314	1134	1040	1019
37.5°	1208	1146	997	936	893
40°	1036	978	885	844	795
42.5°	885	842	792	777	737
45°	741	727	699	718	698
47.5°	635	618	616	658	669
50°	545	518	527	601	644
52.5°	470	434	450	554	637
55°	395	362	387	515	637
57.5°	329	298	334	497	615
60°	268	250	292	475	593
62.5°	225	216	265	459	588
65°	193	193	250	455	593
67.5°	167	177	242	461	593
70°	142	168	238	472	589
72.5°	117	161	236	483	579
75°	95	152	232	493	590
77.5°	79	134	220	494	560
80°	68	113	207	492	489
82.5°	53	93	190	448	427
85°	37	73	177	379	364
87.5°	17	56	166	317	304
90°	1	42	162	266	255
92.5°	1	39	164	231	220
95°	1	38	167	202	195
97.5°	1	37	161	182	178
100°	1	36	148	169	165
102.5°	1	35	132	162	158
105°	1	34	117	162	154
107.5°	1	33	104	167	155
110°	1	32	94	173	161



TEST NUMBER: P231954

CATALOG NUMBER: FVS4M-4-LD4-40-1HI-P125-UNV-EDC1

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1	31	85	175	170
115°	1	30	77	170	177
117.5°	1	30	71	158	182
120°	1	29	65	146	179
122.5°	1	29	59	133	168
125°	1	28	53	118	153
127.5°	1	27	48	106	134
130°	1	26	43	94	119
132.5°	1	24	39	83	105
135°	1	22	34	73	94
137.5°	1	20	31	64	83
140°	1	19	28	56	73
142.5°	1	17	25	50	64
145°	1	15	23	43	55
147.5°	1	14	22	37	46
150°	1	12	20	30	38
152.5°	2	10	17	24	31
155°	2	8	14	19	25
157.5°	2	6	12	13	18
160°	2	5	9	8	12
162.5°	2	3	6	4	7
165°	2	3	3	2	2
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)