

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: P241415

Luminaire Tested: **FVS8M-4-LD4-40-3HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P241415  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-43)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FVS8M-4-LD4-40-3HI-P125-UNV-EDC1  
Description: FAILSAFE FVS8M LED FIXTURE  
4FT LENGTH, 3-MODULE LED WITH P125 LENS  
Light Source: (252) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

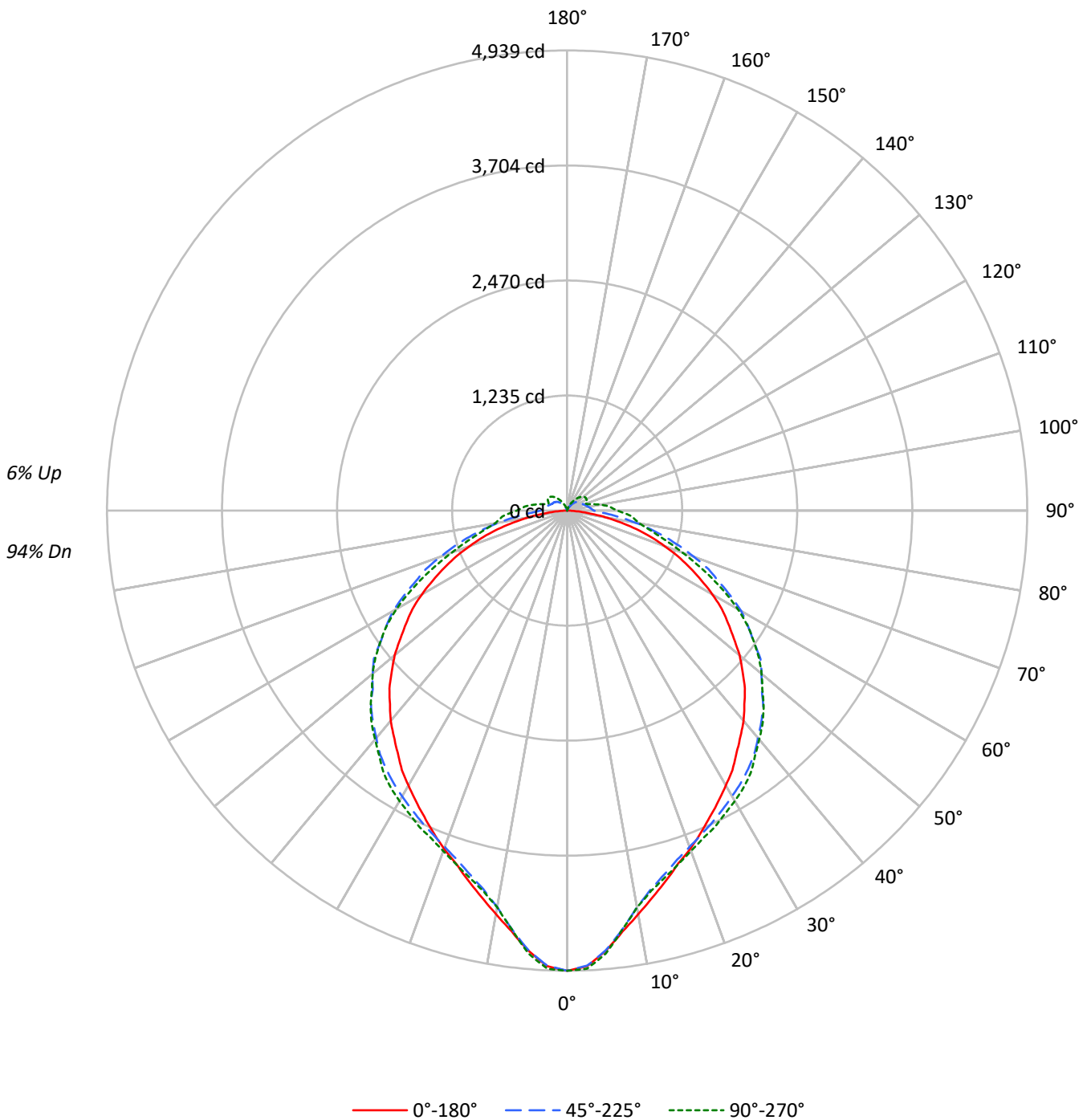
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13840.0 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.09 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 3.73' x H: 0.15')  
CIE Type: Direct  
  
Input Watts (W): 129.5  
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

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### 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	106	101	97	92	103	98	94	90	93	89	86	88	85	83	83	81	79	76
2	96	88	81	74	93	85	79	73	81	75	70	76	72	68	72	69	65	63
3	88	77	68	61	84	75	67	60	71	64	59	67	61	57	64	59	55	53
4	80	68	59	52	77	66	58	51	63	55	50	59	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	39	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	40	34	46	38	33	44	37	32	42	36	32	29
8	58	45	36	30	56	44	36	30	42	35	29	40	34	29	38	33	28	26
9	55	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	25	49	37	29	24	36	29	24	34	28	24	33	27	23	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	22073	22073	22073
5°	21210	20922	20994
10°	19822	18973	18867
15°	18805	17795	17761
20°	18115	17106	17087
25°	17565	16739	16726
30°	17189	16490	16435
35°	16845	16331	16192
40°	16647	16068	15729
45°	16410	15847	15380
50°	16056	15483	14929
55°	15563	14999	14411
60°	15085	14557	13602
65°	14196	13504	12204
70°	13109	12475	10645
75°	11603	11017	9343
80°	8911	9260	8836
85°	4961	7297	9924



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.9	3.2
10°-20°	1150.0	8.3
20°-30°	1706.2	12.3
30°-40°	2097.9	15.2
40°-50°	2242.3	16.2
50°-60°	2118.2	15.3
60°-70°	1682.1	12.2
70°-80°	1052.1	7.6
80°-90°	482.1	3.5
90°-100°	262.5	1.9
100°-110°	187.3	1.4
110°-120°	144.2	1.0
120°-130°	124.4	0.9
130°-140°	87.6	0.6
140°-150°	45.6	0.3
150°-160°	15.5	0.1
160°-170°	2.1	0.0
170°-180°	0.0	0.0
0°-30°	3296.2	23.8
0°-40°	5394.0	39.0
0°-60°	9754.5	70.5
0°-90°	12970.8	93.7
90°-120°	594.0	4.3
90°-150°	851.6	6.2
90°-180°	869.0	6.3
0°-180°	13840.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4939	4939	4939	4939	4939	
5°	4744	4741	4740	4758	4772	441
15°	4107	4083	4039	4049	4071	1158
25°	3627	3659	3691	3745	3749	1674
35°	3172	3277	3386	3434	3437	1989
45°	2698	2830	2977	2985	2983	2075
55°	2109	2301	2440	2460	2446	1888
65°	1455	1647	1790	1779	1713	1442
75°	770	929	1084	1073	997	809
85°	140	288	447	541	693	174
90°	3	137	286	401	540	7
95°	1	118	256	360	464	1
105°	1	95	210	262	262	1
115°	1	80	175	208	224	1
125°	1	64	159	214	241	1
135°	2	41	127	182	208	1
145°	2	17	75	124	140	1
155°	2	3	29	60	70	1
165°	3	1	2	10	15	1
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°	4938.9	4938.9	4938.9	4938.9	4938.9
2.5°	4894.9	4894.9	4888.9	4910.9	4921.9
5°	4743.9	4740.9	4739.9	4757.9	4771.9
7.5°	4556.9	4556.9	4534.9	4533.9	4535.9
10°	4397.9	4374.9	4318.9	4329.9	4322.9
12.5°	4246.9	4225.9	4159.9	4167.9	4177.9
15°	4106.9	4082.9	4038.9	4048.9	4070.9
17.5°	3970.9	3971.9	3927.9	3976.9	3976.9
20°	3862.9	3853.9	3841.9	3882.9	3887.9
22.5°	3745.9	3749.9	3761.9	3812.9	3807.9
25°	3626.9	3658.9	3690.9	3744.9	3748.9
27.5°	3516.9	3563.9	3615.9	3682.9	3667.9
30°	3405.9	3476.9	3540.9	3612.9	3599.9
32.5°	3300.9	3386.9	3467.9	3532.9	3524.9
35°	3171.9	3276.9	3385.9	3433.9	3436.9
37.5°	3054.9	3180.9	3297.9	3338.9	3313.9
40°	2946.9	3081.9	3186.9	3222.9	3206.9
42.5°	2815.9	2953.9	3082.9	3093.9	3105.9
45°	2697.9	2829.9	2976.9	2984.9	2982.9
47.5°	2551.9	2722.9	2830.9	2863.9	2841.9
50°	2416.9	2575.9	2723.9	2747.9	2724.9
52.5°	2252.9	2424.9	2615.9	2607.9	2593.9
55°	2108.9	2300.9	2439.9	2459.9	2445.9
57.5°	1969.9	2147.9	2298.9	2314.9	2294.9
60°	1801.9	1961.9	2156.9	2146.9	2116.9
62.5°	1625.0	1803.9	1972.9	1963.9	1916.9
65°	1455.0	1647.0	1789.9	1778.9	1712.9
67.5°	1290.0	1457.0	1642.0	1599.0	1505.0
70°	1111.0	1264.0	1446.0	1409.0	1320.0
72.5°	943.0	1095.0	1261.0	1241.0	1146.0
75°	770.0	929.0	1084.0	1073.0	997.0
77.5°	588.0	750.0	910.0	925.0	880.0
80°	423.0	580.0	742.0	783.0	783.0
82.5°	266.0	421.0	589.0	652.0	735.0
85°	140.0	288.0	447.0	541.0	693.0
87.5°	45.0	192.0	345.0	455.0	613.0
90°	3.0	137.0	286.0	401.0	540.0
92.5°	1.0	124.0	268.0	378.0	492.0
95°	1.0	118.0	256.0	360.0	464.0
97.5°	1.0	111.0	244.0	338.0	413.0
100°	1.0	105.0	231.0	316.0	364.0
102.5°	1.0	100.0	221.0	291.0	310.0
105°	1.0	95.0	210.0	262.0	262.0
107.5°	1.0	92.0	200.0	237.0	229.0
110°	1.0	88.0	190.0	218.0	215.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	84.0	182.0	208.0	215.0
115°	1.0	80.0	175.0	208.0	224.0
117.5°	1.0	76.0	171.0	212.0	233.0
120°	1.0	72.0	169.0	216.0	240.0
122.5°	1.0	68.0	165.0	217.0	242.0
125°	1.0	64.0	159.0	214.0	241.0
127.5°	1.0	59.0	153.0	209.0	237.0
130°	1.0	53.0	145.0	202.0	231.0
132.5°	2.0	47.0	137.0	192.0	221.0
135°	2.0	41.0	127.0	182.0	208.0
137.5°	2.0	34.0	116.0	168.0	192.0
140°	2.0	28.0	103.0	154.0	175.0
142.5°	2.0	22.0	89.0	139.0	157.0
145°	2.0	17.0	75.0	124.0	140.0
147.5°	2.0	12.0	63.0	106.0	121.0
150°	2.0	9.0	51.0	91.0	103.0
152.5°	2.0	6.0	39.0	74.0	86.0
155°	2.0	3.0	29.0	60.0	70.0
157.5°	2.0	2.0	20.0	45.0	53.0
160°	3.0	1.0	13.0	31.0	39.0
162.5°	3.0	1.0	7.0	19.0	26.0
165°	3.0	1.0	2.0	10.0	15.0
167.5°	3.0	1.0	0.0	3.0	6.0
170°	3.0	1.0	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)