

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: P241411

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

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P241411  
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-LD4-40-3STD-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**

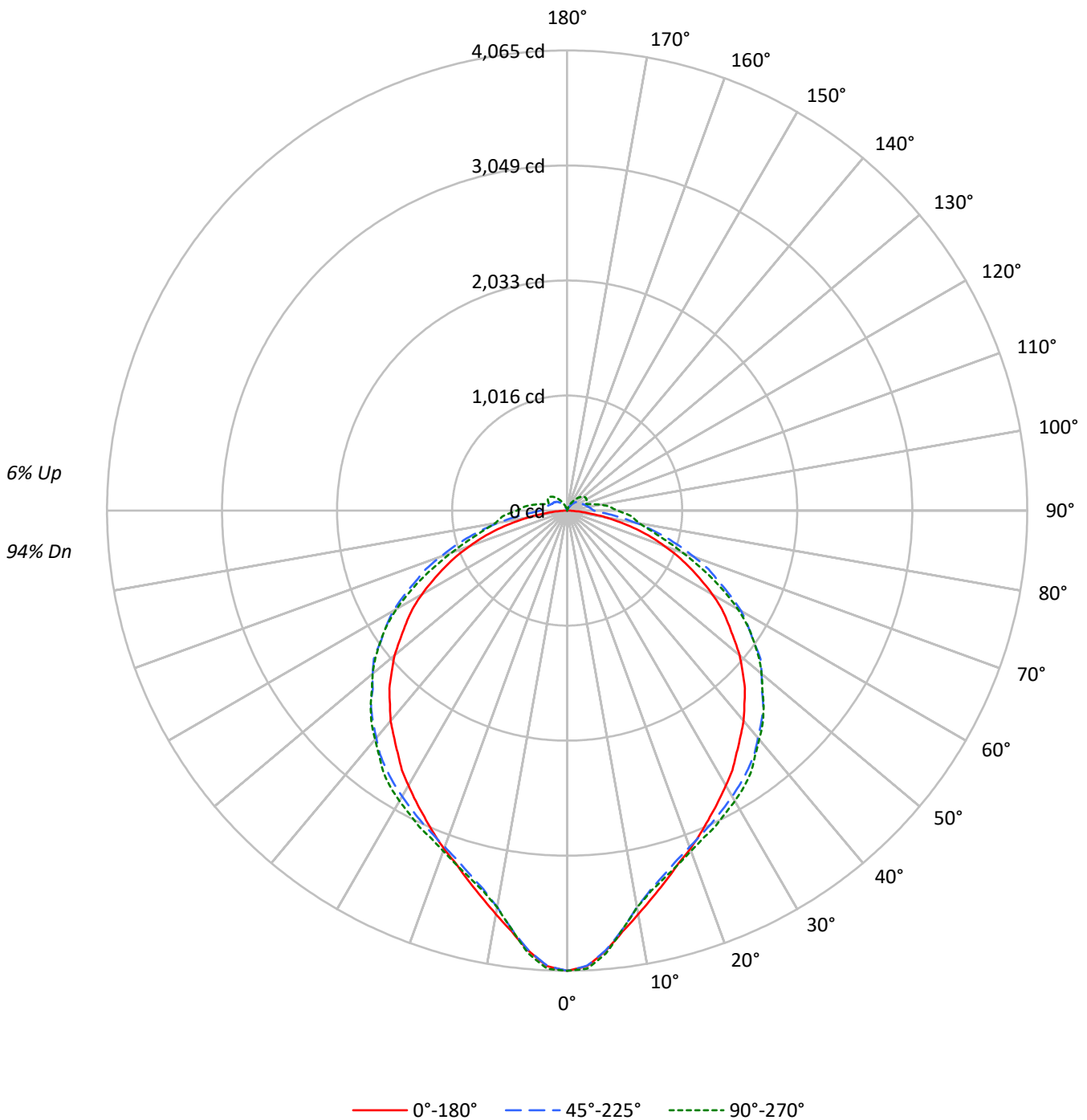
Lumens per Lamp: N/A  
Luminaire Lumens: 11392.0 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.09 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 3.73' x H: 0.15')  
CIE Type: Direct

Input Watts (W): 98.5  
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			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°	18169	18169	18169
5°	17459	17221	17280
10°	16316	15618	15530
15°	15479	14647	14619
20°	14910	14080	14065
25°	14458	13778	13767
30°	14149	13573	13528
35°	13865	13443	13328
40°	13702	13226	12947
45°	13508	13044	12660
50°	13216	12744	12288
55°	12811	12346	11862
60°	12417	11982	11196
65°	11685	11115	10046
70°	10791	10268	8762
75°	9551	9067	7690
80°	7335	7621	7273
85°	4083	6006	8168



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	362.1	3.2
10°-20°	946.6	8.3
20°-30°	1404.4	12.3
30°-40°	1726.8	15.2
40°-50°	1845.7	16.2
50°-60°	1743.5	15.3
60°-70°	1384.6	12.2
70°-80°	866.0	7.6
80°-90°	396.8	3.5
90°-100°	216.0	1.9
100°-110°	154.2	1.4
110°-120°	118.7	1.0
120°-130°	102.4	0.9
130°-140°	72.1	0.6
140°-150°	37.5	0.3
150°-160°	12.8	0.1
160°-170°	1.7	0.0
170°-180°	0.0	0.0
0°-30°	2713.1	23.8
0°-40°	4439.9	39.0
0°-60°	8029.1	70.5
0°-90°	10676.5	93.7
90°-120°	488.9	4.3
90°-150°	700.9	6.2
90°-180°	715.0	6.3
0°-180°	11392.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4065	4065	4065	4065	4065	
5°	3905	3902	3902	3916	3928	363
15°	3380	3361	3324	3333	3351	953
25°	2985	3012	3038	3082	3086	1378
35°	2611	2697	2787	2826	2829	1638
45°	2221	2329	2450	2457	2455	1708
55°	1736	1894	2008	2025	2013	1554
65°	1198	1356	1473	1464	1410	1187
75°	634	765	892	883	821	666
85°	115	237	368	445	570	143
90°	2	113	235	330	444	6
95°	1	97	211	296	382	1
105°	1	78	173	216	216	1
115°	1	66	144	171	184	1
125°	1	53	131	176	198	1
135°	2	34	104	150	171	1
145°	2	14	62	102	115	1
155°	2	2	24	49	58	1
165°	2	1	2	8	12	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°	4065.3	4065.3	4065.3	4065.3	4065.3
2.5°	4029.1	4029.1	4024.1	4042.2	4051.3
5°	3904.8	3902.3	3901.5	3916.3	3927.8
7.5°	3750.9	3750.9	3732.7	3731.9	3733.6
10°	3620.0	3601.0	3555.0	3564.0	3558.2
12.5°	3495.7	3478.4	3424.1	3430.7	3438.9
15°	3380.5	3360.7	3324.5	3332.7	3350.8
17.5°	3268.5	3269.3	3233.1	3273.5	3273.5
20°	3179.6	3172.2	3162.3	3196.1	3200.2
22.5°	3083.3	3086.6	3096.5	3138.5	3134.4
25°	2985.4	3011.7	3038.1	3082.5	3085.8
27.5°	2894.8	2933.5	2976.3	3031.5	3019.1
30°	2803.5	2861.9	2914.6	2973.8	2963.1
32.5°	2717.0	2787.8	2854.5	2908.0	2901.4
35°	2610.9	2697.3	2787.0	2826.5	2829.0
37.5°	2514.6	2618.3	2714.6	2748.3	2727.7
40°	2425.7	2536.8	2623.2	2652.8	2639.7
42.5°	2317.8	2431.4	2537.6	2546.7	2556.5
45°	2220.7	2329.4	2450.4	2456.9	2455.3
47.5°	2100.5	2241.3	2330.2	2357.3	2339.2
50°	1989.4	2120.3	2242.1	2261.9	2242.9
52.5°	1854.4	1996.0	2153.2	2146.6	2135.1
55°	1735.9	1893.9	2008.4	2024.8	2013.3
57.5°	1621.5	1768.0	1892.3	1905.5	1889.0
60°	1483.2	1614.9	1775.4	1767.2	1742.5
62.5°	1337.5	1484.9	1624.0	1616.6	1577.9
65°	1197.6	1355.6	1473.3	1464.3	1410.0
67.5°	1061.8	1199.3	1351.5	1316.1	1238.8
70°	914.5	1040.4	1190.2	1159.7	1086.5
72.5°	776.2	901.3	1037.9	1021.5	943.3
75°	633.8	764.7	892.2	883.2	820.6
77.5°	484.0	617.3	749.0	761.4	724.3
80°	348.2	477.4	610.7	644.5	644.5
82.5°	218.9	346.5	484.8	536.7	605.0
85°	115.2	237.1	367.9	445.3	570.4
87.5°	37.0	158.0	284.0	374.5	504.6
90°	2.5	112.8	235.4	330.1	444.5
92.5°	0.8	102.1	220.6	311.1	405.0
95°	0.8	97.1	210.7	296.3	381.9
97.5°	0.8	91.4	200.8	278.2	339.9
100°	0.8	86.4	190.1	260.1	299.6
102.5°	0.8	82.3	181.9	239.5	255.2
105°	0.8	78.2	172.9	215.7	215.7
107.5°	0.8	75.7	164.6	195.1	188.5
110°	0.8	72.4	156.4	179.4	177.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	69.1	149.8	171.2	177.0
115°	0.8	65.8	144.0	171.2	184.4
117.5°	0.8	62.6	140.7	174.5	191.8
120°	0.8	59.3	139.1	177.8	197.5
122.5°	0.8	56.0	135.8	178.6	199.2
125°	0.8	52.7	130.9	176.1	198.4
127.5°	0.8	48.6	125.9	172.0	195.1
130°	0.8	43.6	119.3	166.3	190.1
132.5°	1.6	38.7	112.8	158.0	181.9
135°	1.6	33.7	104.5	149.8	171.2
137.5°	1.6	28.0	95.5	138.3	158.0
140°	1.6	23.0	84.8	126.8	144.0
142.5°	1.6	18.1	73.3	114.4	129.2
145°	1.6	14.0	61.7	102.1	115.2
147.5°	1.6	9.9	51.9	87.2	99.6
150°	1.6	7.4	42.0	74.9	84.8
152.5°	1.6	4.9	32.1	60.9	70.8
155°	1.6	2.5	23.9	49.4	57.6
157.5°	1.6	1.6	16.5	37.0	43.6
160°	2.5	0.8	10.7	25.5	32.1
162.5°	2.5	0.8	5.8	15.6	21.4
165°	2.5	0.8	1.6	8.2	12.3
167.5°	2.5	0.8	0.0	2.5	4.9
170°	2.5	0.8	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)