

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: P241413

Luminaire Tested: **FVS8M-4-LD4-30-3HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P241413  
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-LD4-30-3HI-P125-UNV-EDC1  
Description: FAILSAFE FVS8M LED FIXTURE  
4FT LENGTH, 3-MODULE LED WITH P125 LENS  
Light Source: (252) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

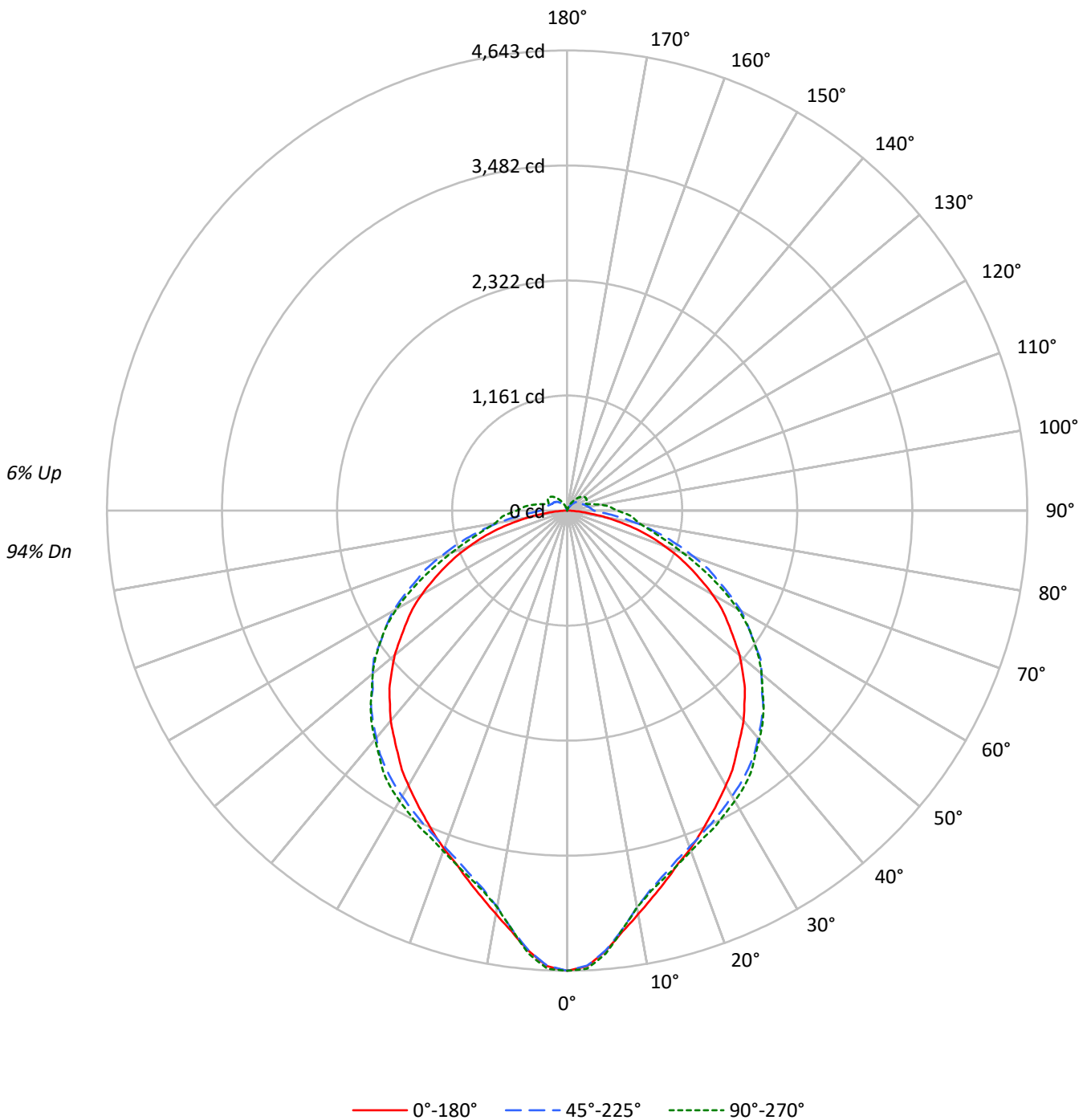
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13010.0 lumens  
Efficiency: N/A  
Efficacy: 100.5 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°	20750	20750	20750
5°	19938	19667	19735
10°	18633	17836	17735
15°	17678	16728	16696
20°	17028	16080	16062
25°	16512	15735	15723
30°	16158	15501	15450
35°	15835	15352	15221
40°	15649	15104	14786
45°	15426	14897	14458
50°	15094	14555	14034
55°	14630	14100	13547
60°	14181	13684	12787
65°	13345	12694	11473
70°	12322	11726	10006
75°	10907	10356	8782
80°	8376	8705	8306
85°	4664	6860	9328



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.5	3.2
10°-20°	1081.0	8.3
20°-30°	1603.9	12.3
30°-40°	1972.1	15.2
40°-50°	2107.8	16.2
50°-60°	1991.2	15.3
60°-70°	1581.2	12.2
70°-80°	989.0	7.6
80°-90°	453.2	3.5
90°-100°	246.7	1.9
100°-110°	176.1	1.4
110°-120°	135.6	1.0
120°-130°	116.9	0.9
130°-140°	82.4	0.6
140°-150°	42.8	0.3
150°-160°	14.6	0.1
160°-170°	2.0	0.0
170°-180°	0.0	0.0
0°-30°	3098.5	23.8
0°-40°	5070.5	39.0
0°-60°	9169.5	70.5
0°-90°	12192.9	93.7
90°-120°	558.3	4.3
90°-150°	800.5	6.2
90°-180°	817.0	6.3
0°-180°	13010.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4643	4643	4643	4643	4643	
5°	4459	4456	4456	4472	4486	415
15°	3861	3838	3797	3806	3827	1089
25°	3409	3440	3470	3520	3524	1574
35°	2982	3080	3183	3228	3231	1870
45°	2536	2660	2798	2806	2804	1951
55°	1982	2163	2294	2312	2299	1775
65°	1368	1548	1683	1672	1610	1355
75°	724	873	1019	1009	937	760
85°	132	271	420	508	651	164
90°	3	129	269	377	508	7
95°	1	111	241	338	436	1
105°	1	89	197	246	246	1
115°	1	75	164	196	211	1
125°	1	60	150	201	226	1
135°	2	38	119	171	196	1
145°	2	16	70	117	132	1
155°	2	3	27	56	66	1
165°	3	1	2	9	14	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°	4642.7	4642.7	4642.7	4642.7	4642.7
2.5°	4601.3	4601.3	4595.7	4616.3	4626.7
5°	4459.4	4456.5	4455.6	4472.5	4485.7
7.5°	4283.6	4283.6	4262.9	4262.0	4263.8
10°	4134.1	4112.5	4059.9	4070.2	4063.6
12.5°	3992.2	3972.4	3910.4	3917.9	3927.3
15°	3860.6	3838.0	3796.7	3806.1	3826.7
17.5°	3732.7	3733.7	3692.3	3738.4	3738.4
20°	3631.2	3622.8	3611.5	3650.0	3654.7
22.5°	3521.2	3525.0	3536.3	3584.2	3579.5
25°	3409.4	3439.5	3469.5	3520.3	3524.1
27.5°	3306.0	3350.2	3399.0	3462.0	3447.9
30°	3201.6	3268.4	3328.5	3396.2	3384.0
32.5°	3102.9	3183.8	3259.9	3321.0	3313.5
35°	2981.7	3080.4	3182.8	3228.0	3230.8
37.5°	2871.7	2990.1	3100.1	3138.7	3115.2
40°	2770.2	2897.1	2995.8	3029.6	3014.6
42.5°	2647.0	2776.8	2898.0	2908.4	2919.6
45°	2536.1	2660.2	2798.4	2805.9	2804.0
47.5°	2398.9	2559.6	2661.1	2692.2	2671.5
50°	2272.0	2421.4	2560.6	2583.1	2561.5
52.5°	2117.8	2279.5	2459.0	2451.5	2438.4
55°	1982.5	2162.9	2293.6	2312.4	2299.2
57.5°	1851.8	2019.1	2161.1	2176.1	2157.3
60°	1693.9	1844.3	2027.6	2018.2	1990.0
62.5°	1527.5	1695.8	1854.6	1846.2	1802.0
65°	1367.7	1548.2	1682.6	1672.3	1610.2
67.5°	1212.6	1369.6	1543.5	1503.1	1414.7
70°	1044.3	1188.2	1359.2	1324.5	1240.8
72.5°	886.4	1029.3	1185.3	1166.5	1077.2
75°	723.8	873.3	1019.0	1008.6	937.2
77.5°	552.7	705.0	855.4	869.5	827.2
80°	397.6	545.2	697.5	736.0	736.0
82.5°	250.0	395.7	553.7	612.9	690.9
85°	131.6	270.7	420.2	508.5	651.4
87.5°	42.3	180.5	324.3	427.7	576.2
90°	2.8	128.8	268.8	376.9	507.6
92.5°	0.9	116.6	251.9	355.3	462.5
95°	0.9	110.9	240.6	338.4	436.2
97.5°	0.9	104.3	229.4	317.7	388.2
100°	0.9	98.7	217.1	297.0	342.2
102.5°	0.9	94.0	207.7	273.5	291.4
105°	0.9	89.3	197.4	246.3	246.3
107.5°	0.9	86.5	188.0	222.8	215.3
110°	0.9	82.7	178.6	204.9	202.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	79.0	171.1	195.5	202.1
115°	0.9	75.2	164.5	195.5	210.6
117.5°	0.9	71.4	160.7	199.3	219.0
120°	0.9	67.7	158.9	203.0	225.6
122.5°	0.9	63.9	155.1	204.0	227.5
125°	0.9	60.2	149.5	201.2	226.5
127.5°	0.9	55.5	143.8	196.5	222.8
130°	0.9	49.8	136.3	189.9	217.1
132.5°	1.9	44.2	128.8	180.5	207.7
135°	1.9	38.5	119.4	171.1	195.5
137.5°	1.9	32.0	109.0	157.9	180.5
140°	1.9	26.3	96.8	144.8	164.5
142.5°	1.9	20.7	83.7	130.7	147.6
145°	1.9	16.0	70.5	116.6	131.6
147.5°	1.9	11.3	59.2	99.6	113.7
150°	1.9	8.5	47.9	85.5	96.8
152.5°	1.9	5.6	36.7	69.6	80.8
155°	1.9	2.8	27.3	56.4	65.8
157.5°	1.9	1.9	18.8	42.3	49.8
160°	2.8	0.9	12.2	29.1	36.7
162.5°	2.8	0.9	6.6	17.9	24.4
165°	2.8	0.9	1.9	9.4	14.1
167.5°	2.8	0.9	0.0	2.8	5.6
170°	2.8	0.9	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)