

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: P232053

Luminaire Tested: **FVS4M-3-LD4-35-2LO-P125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P232053  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-28)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FVS4M-3-LD4-35-2LO-P125-UNV-EDC1  
Description: FAILSAFE FVS LED FIXTURE  
3FT LENGTH, 2-MODULE LED WITH P125 LENS  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

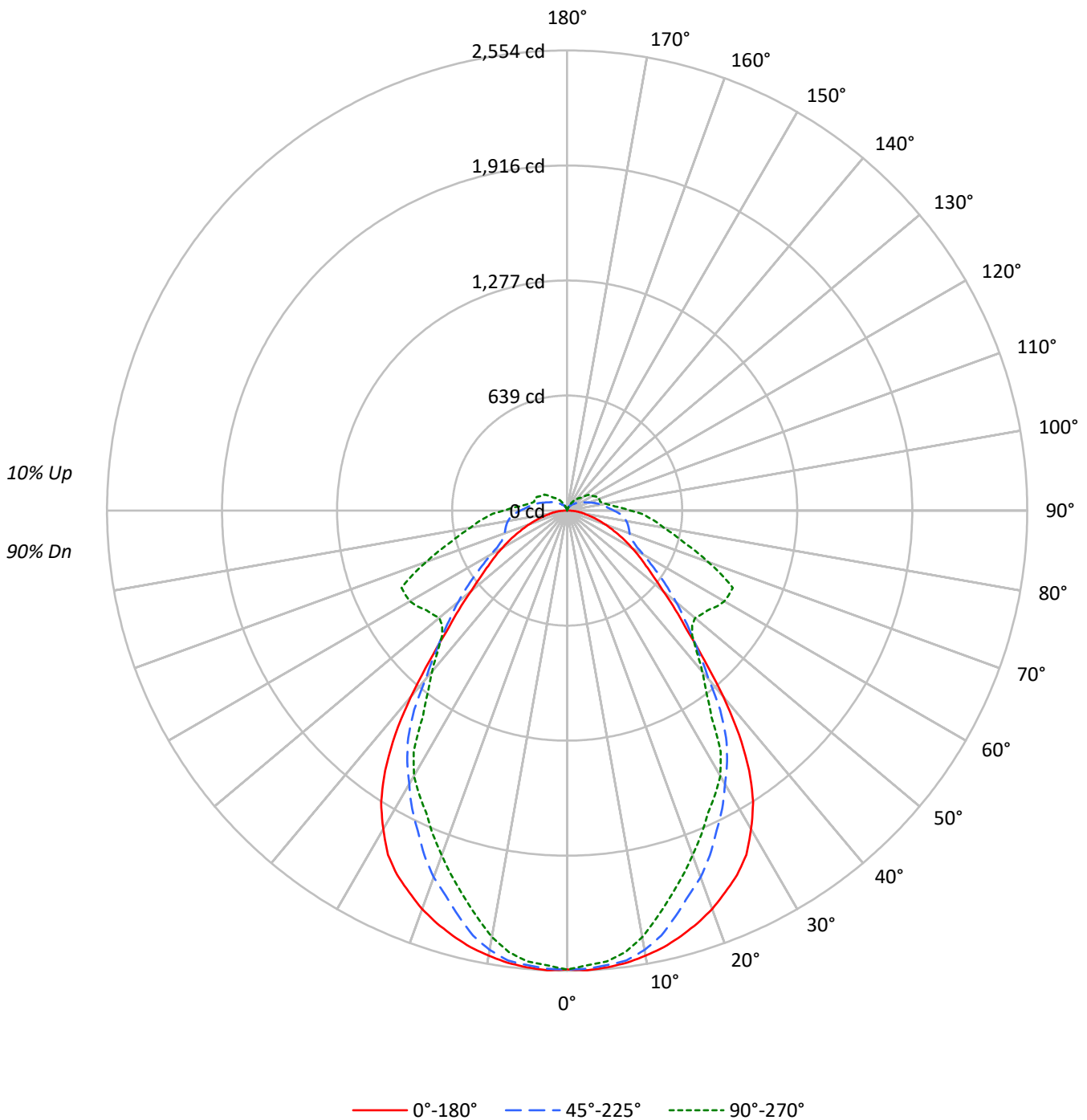
Lumens per Lamp: N/A  
Luminaire Lumens: 6022.0 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.01 / 1.12  
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')  
CIE Type: Direct

Input Watts (W): 56.8  
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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	106	101	96	92	102	97	93	89	91	88	85	86	83	80	81	78	76	74
2	96	88	81	75	93	85	79	74	80	75	71	76	71	68	71	68	65	62
3	88	78	70	64	85	76	68	62	71	65	60	67	62	58	64	59	56	53
4	81	70	61	55	78	68	60	54	64	57	52	61	55	50	57	53	49	46
5	75	63	54	48	73	61	53	47	58	51	46	55	49	44	52	47	43	41
6	70	57	49	42	67	56	48	42	53	46	41	50	44	40	48	43	39	36
7	65	52	44	38	63	51	43	37	49	42	37	46	40	36	44	39	35	33
8	61	48	40	34	59	47	39	34	45	38	33	43	37	32	41	36	32	30
9	57	44	36	31	55	43	36	31	41	35	30	40	34	29	38	33	29	27
10	54	41	33	28	52	40	33	28	39	32	28	37	31	27	36	30	27	25

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

	0°	45°	90°
0°	30084	30084	30084
5°	30001	28840	28299
10°	29744	27420	26067
15°	29378	25293	23351
20°	28900	23237	20993
25°	28232	20965	18845
30°	26845	18802	17217
35°	24314	16690	14183
40°	19700	13511	11962
45°	14790	11089	10237
50°	11858	9295	9932
55°	10074	7673	10639
60°	8852	6354	11668
65°	7655	5582	12400
70°	6600	5556	10848
75°	5527	5839	9355
80°	4610	6177	8401
85°	3929	6510	7866



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.6	4.0
10°-20°	656.5	10.9
20°-30°	919.2	15.3
30°-40°	964.3	16.0
40°-50°	773.4	12.8
50°-60°	612.7	10.2
60°-70°	531.2	8.8
70°-80°	435.0	7.2
80°-90°	304.4	5.1
90°-100°	192.5	3.2
100°-110°	136.9	2.3
110°-120°	102.9	1.7
120°-130°	73.6	1.2
130°-140°	44.0	0.7
140°-150°	24.1	0.4
150°-160°	10.1	0.2
160°-170°	1.6	0.0
170°-180°	0.0	0.0
0°-30°	1815.2	30.1
0°-40°	2779.4	46.2
0°-60°	4165.5	69.2
0°-90°	5436.1	90.3
90°-120°	432.4	7.2
90°-150°	574.1	9.5
90°-180°	586.0	9.7
0°-180°	6022.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2547	2547	2547	2547	2547	
5°	2545	2530	2533	2522	2512	242
15°	2444	2426	2329	2255	2217	689
25°	2232	2101	1961	1887	1851	1023
35°	1762	1650	1538	1452	1397	1082
45°	942	1001	976	1017	981	750
55°	534	530	623	806	960	485
65°	312	277	401	812	1015	312
75°	150	197	352	685	664	161
85°	50	116	306	439	456	49
90°	2	70	259	356	350	4
95°	1	61	221	282	266	1
105°	1	51	161	208	189	1
115°	1	41	109	170	182	1
125°	2	38	77	136	155	1
135°	2	32	53	88	99	1
145°	2	24	37	56	69	1
155°	2	13	24	30	34	1
165°	2	4	8	4	5	0
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°	2547.4	2547.4	2547.4	2547.4	2547.4
2.5°	2553.9	2546.6	2545.0	2532.8	2526.3
5°	2545.0	2530.4	2532.8	2522.3	2512.5
7.5°	2531.2	2517.4	2519.0	2498.7	2471.9
10°	2508.5	2497.1	2476.0	2430.5	2403.7
12.5°	2481.7	2471.1	2415.9	2346.1	2310.4
15°	2444.3	2425.7	2329.1	2255.2	2217.0
17.5°	2402.1	2351.0	2240.6	2174.0	2127.7
20°	2353.4	2279.5	2165.1	2082.3	2035.2
22.5°	2292.5	2184.6	2070.9	1978.4	1945.9
25°	2231.6	2100.9	1961.3	1886.6	1850.9
27.5°	2153.7	1996.2	1864.7	1798.9	1777.8
30°	2041.7	1897.2	1752.7	1712.1	1699.9
32.5°	1921.5	1778.7	1652.0	1602.5	1586.3
35°	1762.4	1650.4	1538.4	1451.5	1397.1
37.5°	1568.4	1506.7	1393.9	1297.3	1268.0
40°	1346.8	1335.4	1221.8	1180.4	1166.6
42.5°	1128.4	1170.6	1091.1	1094.3	1065.1
45°	942.5	1000.9	975.8	1017.2	980.7
47.5°	815.9	858.9	876.7	943.3	940.9
50°	694.9	735.5	789.1	890.5	927.1
52.5°	606.4	629.1	703.0	848.3	943.3
55°	534.2	530.1	622.7	806.1	959.5
57.5°	474.9	448.1	548.8	781.8	988.0
60°	416.5	372.6	487.9	779.3	1007.4
62.5°	363.7	314.2	435.1	789.9	1012.3
65°	311.7	276.8	401.0	811.8	1014.7
67.5°	266.3	248.4	380.7	825.6	925.5
70°	224.9	224.9	368.6	811.0	832.1
72.5°	186.7	207.0	360.4	747.7	746.9
75°	150.2	197.3	352.3	685.2	664.1
77.5°	114.5	188.3	344.2	620.2	602.4
80°	92.5	168.9	332.8	550.4	543.9
82.5°	73.1	143.7	321.5	496.8	502.5
85°	50.3	116.1	306.0	439.2	456.2
87.5°	23.5	90.1	284.1	392.9	415.6
90°	1.6	69.8	259.0	356.4	349.9
92.5°	1.6	63.3	237.0	318.2	308.5
95°	0.8	60.9	220.8	281.7	266.3
97.5°	0.8	59.3	203.8	248.4	236.2
100°	0.8	56.8	190.8	224.9	217.6
102.5°	0.8	53.6	175.3	215.1	199.7
105°	0.8	51.1	160.7	207.8	189.1
107.5°	0.8	47.1	144.5	202.1	190.0
110°	0.8	44.6	130.7	190.8	189.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	42.2	119.3	178.6	189.1
115°	0.8	40.6	108.8	169.7	181.8
117.5°	0.8	39.8	100.7	166.4	171.3
120°	1.6	39.0	91.7	164.0	162.4
122.5°	1.6	39.0	84.4	151.8	157.5
125°	1.6	38.2	77.1	136.4	155.1
127.5°	1.6	36.5	70.6	122.6	139.6
130°	1.6	35.7	64.1	110.4	121.8
132.5°	1.6	34.1	58.4	99.0	108.0
135°	1.6	32.5	52.8	88.5	99.0
137.5°	1.6	30.0	48.7	78.7	92.5
140°	1.6	28.4	44.6	70.6	84.4
142.5°	1.6	26.0	40.6	62.5	76.3
145°	1.6	23.5	37.3	56.0	69.0
147.5°	2.4	21.1	34.1	50.3	58.4
150°	2.4	17.9	30.8	43.8	50.3
152.5°	2.4	15.4	27.6	37.3	42.2
155°	2.4	13.0	23.5	30.0	34.1
157.5°	2.4	10.6	19.5	22.7	26.8
160°	2.4	8.9	16.2	15.4	18.7
162.5°	2.4	6.5	12.2	8.9	11.4
165°	2.4	4.1	8.1	4.1	4.9
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)