

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: P241406

Luminaire Tested: **FVS8M-4-LD4-35-3LO-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241406
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-LD4-35-3LO-P125-UNV-EDC1
Description: FAILSAFE FVS8M LED FIXTURE
4FT LENGTH, 3-MODULE LED WITH P125 LENS
Light Source: (252) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

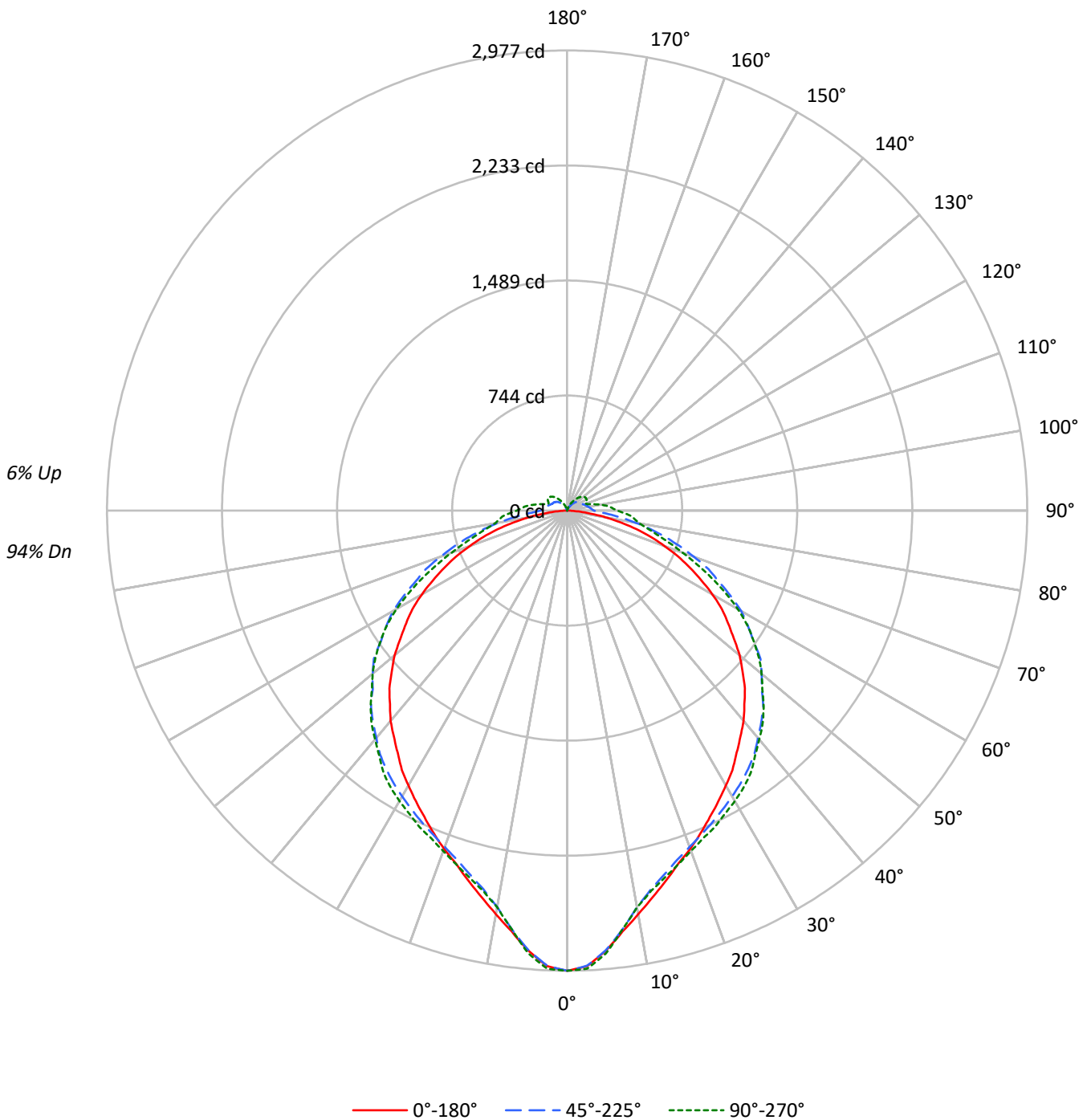
Lumens per Lamp: N/A
Luminaire Lumens: 8343.0 lumens
Efficiency: N/A
Efficacy: 249.0 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.09 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 3.73' x H: 0.15')
CIE Type: Direct

Input Watts (W): 33.5
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°	13306	13306	13306
5°	12786	12612	12655
10°	11949	11438	11373
15°	11336	10727	10707
20°	10920	10312	10300
25°	10589	10090	10083
30°	10361	9940	9908
35°	10154	9845	9760
40°	10035	9686	9482
45°	9893	9553	9272
50°	9679	9333	8999
55°	9382	9042	8687
60°	9093	8775	8200
65°	8558	8141	7357
70°	7902	7519	6417
75°	6995	6641	5632
80°	5372	5582	5327
85°	2991	4400	5981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.2	3.2
10°-20°	693.2	8.3
20°-30°	1028.5	12.3
30°-40°	1264.6	15.2
40°-50°	1351.7	16.2
50°-60°	1276.9	15.3
60°-70°	1014.0	12.2
70°-80°	634.2	7.6
80°-90°	290.6	3.5
90°-100°	158.2	1.9
100°-110°	112.9	1.4
110°-120°	86.9	1.0
120°-130°	75.0	0.9
130°-140°	52.8	0.6
140°-150°	27.5	0.3
150°-160°	9.4	0.1
160°-170°	1.3	0.0
170°-180°	0.0	0.0
0°-30°	1987.0	23.8
0°-40°	3251.6	39.0
0°-60°	5880.2	70.5
0°-90°	7819.0	93.7
90°-120°	358.1	4.3
90°-150°	513.3	6.2
90°-180°	524.0	6.3
0°-180°	8343.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2977	2977	2977	2977	2977	
5°	2860	2858	2857	2868	2877	266
15°	2476	2461	2435	2441	2454	698
25°	2186	2206	2225	2258	2260	1009
35°	1912	1975	2041	2070	2072	1199
45°	1626	1706	1794	1799	1798	1251
55°	1271	1387	1471	1483	1474	1138
65°	877	993	1079	1072	1033	869
75°	464	560	653	647	601	487
85°	84	174	270	326	418	105
90°	2	83	172	242	326	4
95°	1	71	154	217	280	0
105°	1	57	127	158	158	1
115°	1	48	106	125	135	1
125°	1	39	96	129	145	1
135°	1	25	77	110	125	1
145°	1	10	45	75	84	1
155°	1	2	18	36	42	1
165°	2	1	1	6	9	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°	2977.2	2977.2	2977.2	2977.2	2977.2
2.5°	2950.7	2950.7	2947.1	2960.4	2967.0
5°	2859.7	2857.9	2857.3	2868.1	2876.6
7.5°	2747.0	2747.0	2733.7	2733.1	2734.3
10°	2651.1	2637.3	2603.5	2610.1	2605.9
12.5°	2560.1	2547.4	2507.6	2512.5	2518.5
15°	2475.7	2461.2	2434.7	2440.7	2454.0
17.5°	2393.7	2394.3	2367.8	2397.3	2397.3
20°	2328.6	2323.2	2316.0	2340.7	2343.7
22.5°	2258.1	2260.5	2267.7	2298.5	2295.5
25°	2186.4	2205.6	2224.9	2257.5	2259.9
27.5°	2120.0	2148.4	2179.7	2220.1	2211.1
30°	2053.1	2095.9	2134.5	2177.9	2170.1
32.5°	1989.8	2041.7	2090.5	2129.7	2124.9
35°	1912.1	1975.4	2041.1	2070.0	2071.8
37.5°	1841.6	1917.5	1988.0	2012.7	1997.7
40°	1776.5	1857.8	1921.1	1942.8	1933.2
42.5°	1697.5	1780.7	1858.4	1865.1	1872.3
45°	1626.4	1705.9	1794.5	1799.4	1798.2
47.5°	1538.3	1641.4	1706.5	1726.4	1713.2
50°	1457.0	1552.8	1642.0	1656.5	1642.6
52.5°	1358.1	1461.8	1576.9	1572.1	1563.7
55°	1271.3	1387.0	1470.8	1482.9	1474.4
57.5°	1187.5	1294.8	1385.8	1395.5	1383.4
60°	1086.2	1182.7	1300.2	1294.2	1276.1
62.5°	979.6	1087.5	1189.3	1183.9	1155.6
65°	877.1	992.8	1079.0	1072.4	1032.6
67.5°	777.6	878.3	989.8	963.9	907.2
70°	669.7	761.9	871.6	849.3	795.7
72.5°	568.4	660.1	760.1	748.1	690.8
75°	464.2	560.0	653.4	646.8	601.0
77.5°	354.4	452.1	548.5	557.6	530.5
80°	255.0	349.6	447.3	472.0	472.0
82.5°	160.3	253.8	355.0	393.0	443.1
85°	84.4	173.6	269.5	326.1	417.7
87.5°	27.1	115.7	208.0	274.3	369.5
90°	1.8	82.6	172.4	241.7	325.5
92.5°	0.6	74.7	161.6	227.9	296.6
95°	0.6	71.1	154.3	217.0	279.7
97.5°	0.6	66.9	147.1	203.7	249.0
100°	0.6	63.3	139.2	190.5	219.4
102.5°	0.6	60.3	133.2	175.4	186.9
105°	0.6	57.3	126.6	157.9	157.9
107.5°	0.6	55.5	120.6	142.9	138.0
110°	0.6	53.0	114.5	131.4	129.6



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CATALOG NUMBER: FVS8M-4-LD4-35-3LO-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	50.6	109.7	125.4	129.6
115°	0.6	48.2	105.5	125.4	135.0
117.5°	0.6	45.8	103.1	127.8	140.5
120°	0.6	43.4	101.9	130.2	144.7
122.5°	0.6	41.0	99.5	130.8	145.9
125°	0.6	38.6	95.8	129.0	145.3
127.5°	0.6	35.6	92.2	126.0	142.9
130°	0.6	31.9	87.4	121.8	139.2
132.5°	1.2	28.3	82.6	115.7	133.2
135°	1.2	24.7	76.6	109.7	125.4
137.5°	1.2	20.5	69.9	101.3	115.7
140°	1.2	16.9	62.1	92.8	105.5
142.5°	1.2	13.3	53.6	83.8	94.6
145°	1.2	10.2	45.2	74.7	84.4
147.5°	1.2	7.2	38.0	63.9	72.9
150°	1.2	5.4	30.7	54.9	62.1
152.5°	1.2	3.6	23.5	44.6	51.8
155°	1.2	1.8	17.5	36.2	42.2
157.5°	1.2	1.2	12.1	27.1	31.9
160°	1.8	0.6	7.8	18.7	23.5
162.5°	1.8	0.6	4.2	11.5	15.7
165°	1.8	0.6	1.2	6.0	9.0
167.5°	1.8	0.6	0.0	1.8	3.6
170°	1.8	0.6	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)