

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: P241410

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241410
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-LD4-35-3STD-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

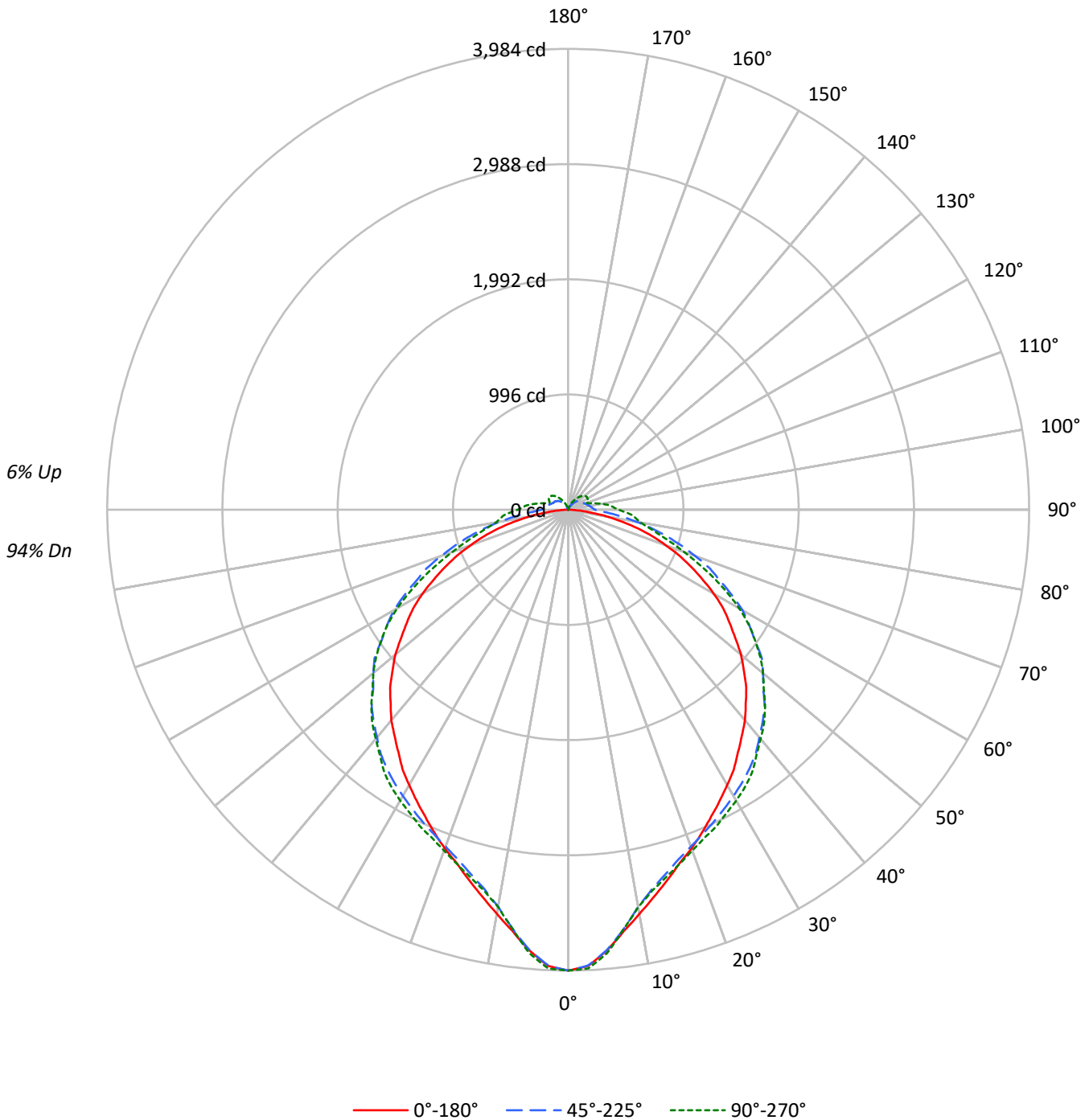
Lumens per Lamp: N/A
Luminaire Lumens: 11165.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.09 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 3.73' x H: 0.15')
CIE Type: Direct

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	
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°	17807	17807	17807
5°	17111	16878	16936
10°	15990	15306	15220
15°	15171	14355	14328
20°	14613	13800	13784
25°	14170	13503	13493
30°	13866	13303	13259
35°	13589	13175	13062
40°	13429	12962	12689
45°	13239	12784	12408
50°	12953	12490	12043
55°	12555	12100	11626
60°	12170	11743	10973
65°	11452	10894	9846
70°	10575	10064	8587
75°	9361	8888	7537
80°	7188	7470	7128
85°	4001	5887	8005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.9	3.2
10°-20°	927.7	8.3
20°-30°	1376.4	12.3
30°-40°	1692.4	15.2
40°-50°	1808.9	16.2
50°-60°	1708.8	15.3
60°-70°	1357.0	12.2
70°-80°	848.8	7.6
80°-90°	388.9	3.5
90°-100°	211.7	1.9
100°-110°	151.1	1.4
110°-120°	116.3	1.0
120°-130°	100.4	0.9
130°-140°	70.7	0.6
140°-150°	36.8	0.3
150°-160°	12.5	0.1
160°-170°	1.7	0.0
170°-180°	0.0	0.0
0°-30°	2659.1	23.8
0°-40°	4351.5	39.0
0°-60°	7869.1	70.5
0°-90°	10463.8	93.7
90°-120°	479.2	4.3
90°-150°	687.0	6.2
90°-180°	701.0	6.3
0°-180°	11165.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3984	3984	3984	3984	3984	
5°	3827	3824	3824	3838	3850	356
15°	3313	3294	3258	3266	3284	934
25°	2926	2952	2978	3021	3024	1351
35°	2559	2644	2732	2770	2773	1605
45°	2176	2283	2402	2408	2406	1674
55°	1701	1856	1968	1984	1973	1523
65°	1174	1329	1444	1435	1382	1163
75°	621	749	874	866	804	652
85°	113	232	361	436	559	140
90°	2	110	231	324	436	6
95°	1	95	206	290	374	1
105°	1	77	169	211	211	1
115°	1	64	141	168	181	1
125°	1	52	128	173	194	1
135°	2	33	102	147	168	1
145°	2	14	60	100	113	1
155°	2	2	23	48	56	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°	3984.3	3984.3	3984.3	3984.3	3984.3
2.5°	3948.8	3948.8	3943.9	3961.7	3970.6
5°	3827.0	3824.5	3823.7	3838.3	3849.6
7.5°	3676.1	3676.1	3658.4	3657.6	3659.2
10°	3547.8	3529.3	3484.1	3493.0	3487.3
12.5°	3426.0	3409.1	3355.9	3362.3	3370.4
15°	3313.1	3293.7	3258.2	3266.3	3284.1
17.5°	3203.4	3204.2	3168.7	3208.2	3208.2
20°	3116.3	3109.0	3099.3	3132.4	3136.4
22.5°	3021.9	3025.1	3034.8	3075.9	3071.9
25°	2925.9	2951.7	2977.5	3021.1	3024.3
27.5°	2837.1	2875.1	2917.0	2971.1	2959.0
30°	2747.6	2804.9	2856.5	2914.6	2904.1
32.5°	2662.9	2732.3	2797.6	2850.1	2843.6
35°	2558.8	2643.5	2731.5	2770.2	2772.6
37.5°	2464.5	2566.1	2660.5	2693.6	2673.4
40°	2377.3	2486.2	2570.9	2600.0	2587.1
42.5°	2271.7	2383.0	2487.0	2495.9	2505.6
45°	2176.5	2282.9	2401.5	2408.0	2406.4
47.5°	2058.7	2196.6	2283.8	2310.4	2292.6
50°	1949.8	2078.0	2197.4	2216.8	2198.2
52.5°	1817.5	1956.2	2110.3	2103.9	2092.6
55°	1701.3	1856.2	1968.3	1984.5	1973.2
57.5°	1589.2	1732.8	1854.6	1867.5	1851.4
60°	1453.7	1582.7	1740.0	1732.0	1707.8
62.5°	1310.9	1455.3	1591.6	1584.4	1546.4
65°	1173.7	1328.6	1444.0	1435.1	1381.9
67.5°	1040.6	1175.4	1324.6	1289.9	1214.1
70°	896.2	1019.7	1166.5	1136.6	1064.8
72.5°	760.7	883.3	1017.2	1001.1	924.5
75°	621.2	749.4	874.5	865.6	804.3
77.5°	474.3	605.0	734.1	746.2	709.9
80°	341.2	467.9	598.6	631.6	631.6
82.5°	214.6	339.6	475.1	526.0	592.9
85°	112.9	232.3	360.6	436.4	559.0
87.5°	36.3	154.9	278.3	367.0	494.5
90°	2.4	110.5	230.7	323.5	435.6
92.5°	0.8	100.0	216.2	304.9	396.9
95°	0.8	95.2	206.5	290.4	374.3
97.5°	0.8	89.5	196.8	272.7	333.2
100°	0.8	84.7	186.3	254.9	293.6
102.5°	0.8	80.7	178.3	234.7	250.1
105°	0.8	76.6	169.4	211.4	211.4
107.5°	0.8	74.2	161.3	191.2	184.7
110°	0.8	71.0	153.3	175.9	173.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	67.8	146.8	167.8	173.4
115°	0.8	64.5	141.2	167.8	180.7
117.5°	0.8	61.3	137.9	171.0	188.0
120°	0.8	58.1	136.3	174.2	193.6
122.5°	0.8	54.9	133.1	175.1	195.2
125°	0.8	51.6	128.3	172.6	194.4
127.5°	0.8	47.6	123.4	168.6	191.2
130°	0.8	42.8	117.0	163.0	186.3
132.5°	1.6	37.9	110.5	154.9	178.3
135°	1.6	33.1	102.5	146.8	167.8
137.5°	1.6	27.4	93.6	135.5	154.9
140°	1.6	22.6	83.1	124.2	141.2
142.5°	1.6	17.7	71.8	112.1	126.7
145°	1.6	13.7	60.5	100.0	112.9
147.5°	1.6	9.7	50.8	85.5	97.6
150°	1.6	7.3	41.1	73.4	83.1
152.5°	1.6	4.8	31.5	59.7	69.4
155°	1.6	2.4	23.4	48.4	56.5
157.5°	1.6	1.6	16.1	36.3	42.8
160°	2.4	0.8	10.5	25.0	31.5
162.5°	2.4	0.8	5.6	15.3	21.0
165°	2.4	0.8	1.6	8.1	12.1
167.5°	2.4	0.8	0.0	2.4	4.8
170°	2.4	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)