

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: P241408

Luminaire Tested: **FVS8M-4-LD4-50-3LO-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241408
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-LD4-50-3LO-P125-UNV-EDC1
Description: FAILSAFE FVS8M LED FIXTURE
4FT LENGTH, 3-MODULE LED WITH P125 LENS
Light Source: (252) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

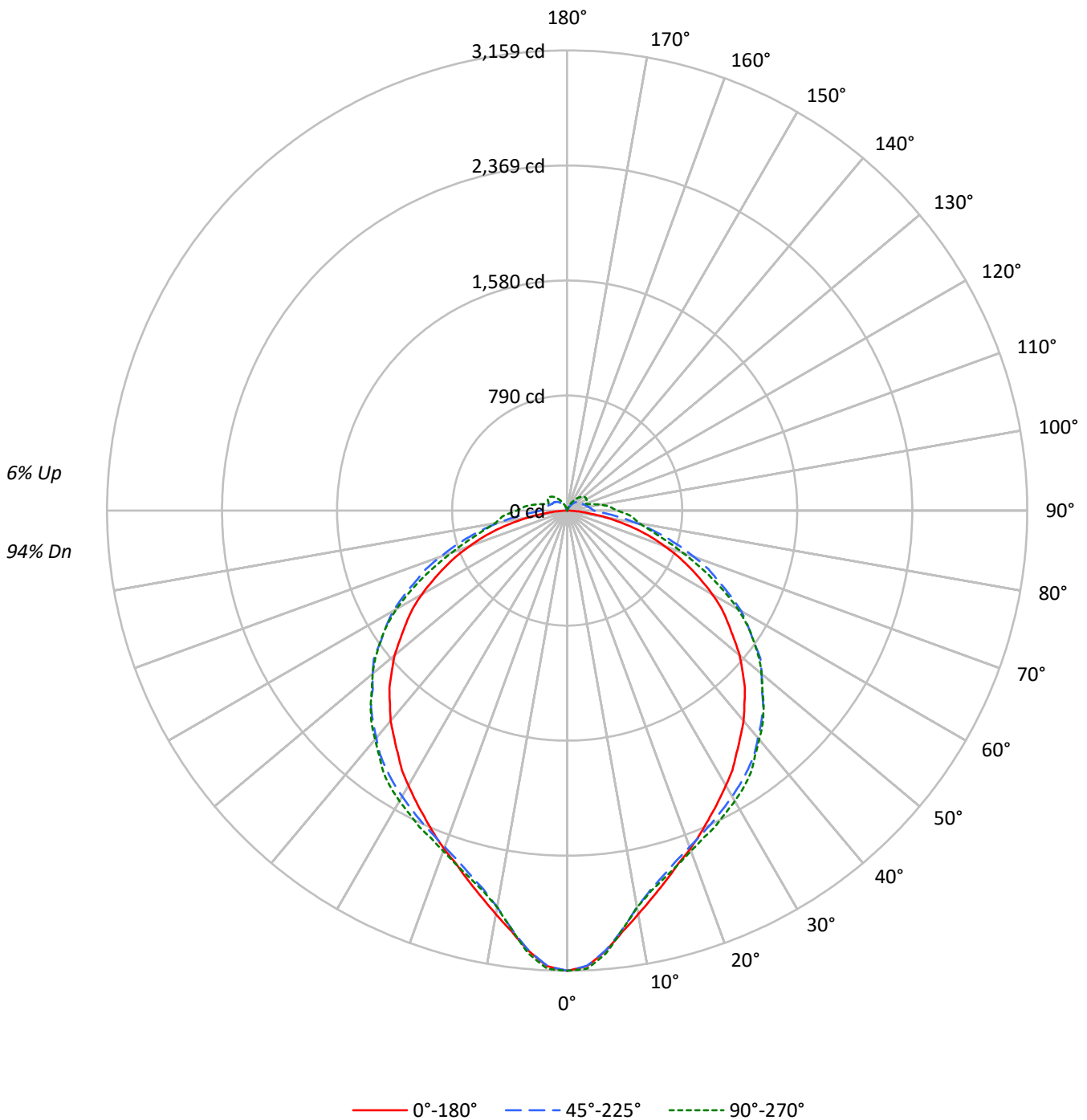
Lumens per Lamp: N/A
Luminaire Lumens: 8852.9 lumens
Efficiency: N/A
Efficacy: 264.3 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.09 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 3.73' x H: 0.15')
CIE Type: Direct

Input Watts (W): 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°	14119	14119	14119
5°	13567	13383	13429
10°	12680	12136	12069
15°	12029	11382	11361
20°	11587	10942	10930
25°	11236	10707	10699
30°	10995	10548	10513
35°	10775	10447	10357
40°	10648	10278	10062
45°	10497	10137	9839
50°	10271	9904	9549
55°	9955	9594	9218
60°	9649	9311	8701
65°	9081	8638	7807
70°	8385	7979	6809
75°	7421	7047	5976
80°	5700	5923	5652
85°	3175	4667	6348



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.4	3.2
10°-20°	735.6	8.3
20°-30°	1091.4	12.3
30°-40°	1341.9	15.2
40°-50°	1434.3	16.2
50°-60°	1354.9	15.3
60°-70°	1076.0	12.2
70°-80°	673.0	7.6
80°-90°	308.4	3.5
90°-100°	167.9	1.9
100°-110°	119.8	1.4
110°-120°	92.2	1.0
120°-130°	79.6	0.9
130°-140°	56.0	0.6
140°-150°	29.2	0.3
150°-160°	9.9	0.1
160°-170°	1.3	0.0
170°-180°	0.0	0.0
0°-30°	2108.4	23.8
0°-40°	3450.4	39.0
0°-60°	6239.6	70.5
0°-90°	8297.0	93.7
90°-120°	379.9	4.3
90°-150°	544.7	6.2
90°-180°	556.0	6.3
0°-180°	8852.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3159	3159	3159	3159	3159	
5°	3034	3033	3032	3043	3052	282
15°	2627	2612	2584	2590	2604	741
25°	2320	2340	2361	2396	2398	1071
35°	2029	2096	2166	2197	2198	1273
45°	1726	1810	1904	1909	1908	1328
55°	1349	1472	1561	1574	1565	1208
65°	931	1054	1145	1138	1096	922
75°	492	594	693	686	638	517
85°	90	184	286	346	443	111
90°	2	88	183	256	345	5
95°	1	76	164	230	297	0
105°	1	61	134	168	168	1
115°	1	51	112	133	143	1
125°	1	41	102	137	154	1
135°	1	26	81	116	133	1
145°	1	11	48	79	90	1
155°	1	2	18	38	45	1
165°	2	1	1	6	10	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3159.2	3159.2	3159.2	3159.2	3159.2
2.5°	3131.1	3131.1	3127.2	3141.3	3148.4
5°	3034.5	3032.6	3031.9	3043.4	3052.4
7.5°	2914.9	2914.9	2900.8	2900.2	2901.4
10°	2813.2	2798.5	2762.6	2769.7	2765.2
12.5°	2716.6	2703.2	2660.9	2666.1	2672.5
15°	2627.0	2611.7	2583.5	2589.9	2604.0
17.5°	2540.0	2540.7	2512.5	2543.9	2543.9
20°	2471.0	2465.2	2457.5	2483.8	2487.0
22.5°	2396.1	2398.7	2406.4	2439.0	2435.8
25°	2320.0	2340.5	2360.9	2395.5	2398.0
27.5°	2249.6	2279.7	2313.0	2355.8	2346.2
30°	2178.6	2224.1	2265.0	2311.1	2302.7
32.5°	2111.5	2166.5	2218.3	2259.9	2254.8
35°	2029.0	2096.1	2165.9	2196.6	2198.5
37.5°	1954.1	2034.7	2109.6	2135.8	2119.8
40°	1885.0	1971.4	2038.6	2061.6	2051.4
42.5°	1801.3	1889.5	1972.0	1979.1	1986.7
45°	1725.8	1810.2	1904.2	1909.4	1908.1
47.5°	1632.4	1741.8	1810.8	1832.0	1817.9
50°	1546.0	1647.7	1742.4	1757.8	1743.0
52.5°	1441.1	1551.1	1673.3	1668.2	1659.2
55°	1349.0	1471.8	1560.7	1573.5	1564.6
57.5°	1260.1	1374.0	1470.6	1480.8	1468.0
60°	1152.6	1255.0	1379.7	1373.3	1354.1
62.5°	1039.4	1153.9	1262.0	1256.3	1226.2
65°	930.7	1053.5	1145.0	1137.9	1095.7
67.5°	825.1	932.0	1050.3	1022.8	962.7
70°	710.6	808.5	924.9	901.3	844.3
72.5°	603.2	700.4	806.6	793.8	733.0
75°	492.5	594.2	693.4	686.3	637.7
77.5°	376.1	479.7	582.1	591.7	562.9
80°	270.6	371.0	474.6	500.8	500.8
82.5°	170.1	269.3	376.8	417.1	470.1
85°	89.6	184.2	285.9	346.0	443.3
87.5°	28.8	122.8	220.7	291.0	392.1
90°	1.9	87.6	182.9	256.5	345.4
92.5°	0.6	79.3	171.4	241.8	314.7
95°	0.6	75.5	163.8	230.3	296.8
97.5°	0.6	71.0	156.1	216.2	264.2
100°	0.6	67.2	147.8	202.1	232.8
102.5°	0.6	64.0	141.4	186.1	198.3
105°	0.6	60.8	134.3	167.6	167.6
107.5°	0.6	58.8	127.9	151.6	146.5
110°	0.6	56.3	121.5	139.4	137.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	53.7	116.4	133.0	137.5
115°	0.6	51.2	111.9	133.0	143.3
117.5°	0.6	48.6	109.4	135.6	149.0
120°	0.6	46.1	108.1	138.2	153.5
122.5°	0.6	43.5	105.5	138.8	154.8
125°	0.6	40.9	101.7	136.9	154.2
127.5°	0.6	37.7	97.9	133.7	151.6
130°	0.6	33.9	92.7	129.2	147.8
132.5°	1.3	30.1	87.6	122.8	141.4
135°	1.3	26.2	81.2	116.4	133.0
137.5°	1.3	21.7	74.2	107.5	122.8
140°	1.3	17.9	65.9	98.5	111.9
142.5°	1.3	14.1	56.9	88.9	100.4
145°	1.3	10.9	48.0	79.3	89.6
147.5°	1.3	7.7	40.3	67.8	77.4
150°	1.3	5.8	32.6	58.2	65.9
152.5°	1.3	3.8	24.9	47.3	55.0
155°	1.3	1.9	18.5	38.4	44.8
157.5°	1.3	1.3	12.8	28.8	33.9
160°	1.9	0.6	8.3	19.8	24.9
162.5°	1.9	0.6	4.5	12.2	16.6
165°	1.9	0.6	1.3	6.4	9.6
167.5°	1.9	0.6	0.0	1.9	3.8
170°	1.9	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)