

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: P241407

Luminaire Tested: **FVS8M-4-LD4-40-3LO-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241407
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-LD4-40-3LO-P125-UNV-EDC1
Description: FAILSAFE FVS8M LED FIXTURE
4FT LENGTH, 3-MODULE LED WITH P125 LENS
Light Source: (252) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

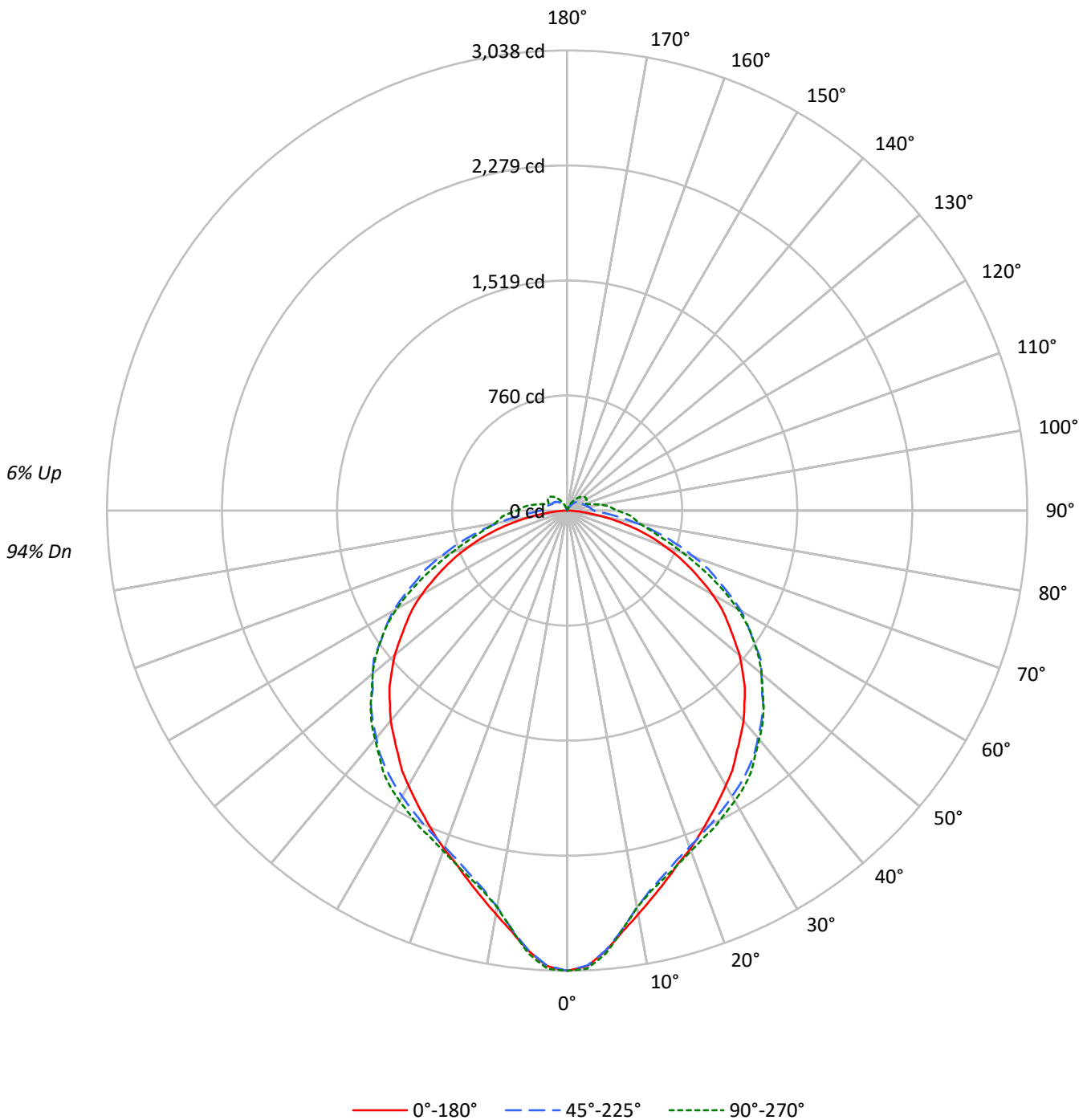
Lumens per Lamp: N/A
Luminaire Lumens: 8513.0 lumens
Efficiency: N/A
Efficacy: 254.1 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.09 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 3.73' x H: 0.15')
CIE Type: Direct

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°	13577	13577	13577
5°	13047	12869	12913
10°	12192	11670	11605
15°	11567	10945	10925
20°	11142	10522	10510
25°	10804	10296	10288
30°	10573	10143	10109
35°	10361	10046	9959
40°	10239	9883	9675
45°	10094	9748	9461
50°	9877	9524	9183
55°	9573	9226	8864
60°	9279	8954	8367
65°	8732	8307	7507
70°	8064	7673	6547
75°	7137	6776	5746
80°	5481	5696	5435
85°	3051	4488	6105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.6	3.2
10°-20°	707.4	8.3
20°-30°	1049.5	12.3
30°-40°	1290.4	15.2
40°-50°	1379.2	16.2
50°-60°	1302.9	15.3
60°-70°	1034.7	12.2
70°-80°	647.1	7.6
80°-90°	296.5	3.5
90°-100°	161.4	1.9
100°-110°	115.2	1.4
110°-120°	88.7	1.0
120°-130°	76.5	0.9
130°-140°	53.9	0.6
140°-150°	28.0	0.3
150°-160°	9.5	0.1
160°-170°	1.3	0.0
170°-180°	0.0	0.0
0°-30°	2027.5	23.8
0°-40°	3317.9	39.0
0°-60°	6000.0	70.5
0°-90°	7978.3	93.7
90°-120°	365.4	4.3
90°-150°	523.8	6.2
90°-180°	535.0	6.3
0°-180°	8513.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3038	3038	3038	3038	3038	
5°	2918	2916	2916	2927	2935	271
15°	2526	2511	2484	2490	2504	712
25°	2231	2251	2270	2304	2306	1030
35°	1951	2016	2083	2112	2114	1224
45°	1660	1741	1831	1836	1835	1277
55°	1297	1415	1501	1513	1504	1161
65°	895	1013	1101	1094	1054	887
75°	474	571	667	660	613	497
85°	86	177	275	333	426	107
90°	2	84	176	247	332	4
95°	1	73	158	221	285	0
105°	1	58	129	161	161	1
115°	1	49	108	128	138	1
125°	1	39	98	132	148	1
135°	1	25	78	112	128	1
145°	1	10	46	76	86	1
155°	1	2	18	37	43	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°	3037.9	3037.9	3037.9	3037.9	3037.9
2.5°	3010.8	3010.8	3007.1	3020.7	3027.4
5°	2918.0	2916.1	2915.5	2926.6	2935.2
7.5°	2802.9	2802.9	2789.4	2788.8	2790.0
10°	2705.1	2691.0	2656.5	2663.3	2659.0
12.5°	2612.3	2599.3	2558.7	2563.7	2569.8
15°	2526.1	2511.4	2484.3	2490.5	2504.0
17.5°	2442.5	2443.1	2416.0	2446.2	2446.2
20°	2376.1	2370.5	2363.1	2388.4	2391.4
22.5°	2304.1	2306.6	2313.9	2345.3	2342.2
25°	2230.9	2250.6	2270.3	2303.5	2305.9
27.5°	2163.2	2192.2	2224.1	2265.4	2256.1
30°	2095.0	2138.6	2178.0	2222.3	2214.3
32.5°	2030.4	2083.3	2133.1	2173.1	2168.2
35°	1951.0	2015.6	2082.7	2112.2	2114.0
37.5°	1879.1	1956.6	2028.5	2053.8	2038.4
40°	1812.6	1895.7	1960.3	1982.4	1972.6
42.5°	1732.1	1817.0	1896.3	1903.1	1910.4
45°	1659.5	1740.7	1831.1	1836.0	1834.8
47.5°	1569.7	1674.9	1741.3	1761.6	1748.1
50°	1486.7	1584.5	1675.5	1690.2	1676.1
52.5°	1385.8	1491.6	1609.1	1604.1	1595.5
55°	1297.2	1415.3	1500.8	1513.1	1504.5
57.5°	1211.7	1321.2	1414.1	1423.9	1411.6
60°	1108.4	1206.8	1326.7	1320.6	1302.1
62.5°	999.5	1109.6	1213.6	1208.0	1179.1
65°	894.9	1013.0	1101.0	1094.2	1053.6
67.5°	793.5	896.2	1010.0	983.5	925.7
70°	683.4	777.5	889.4	866.7	811.9
72.5°	580.0	673.5	775.6	763.3	704.9
75°	473.6	571.4	666.7	660.0	613.2
77.5°	361.7	461.3	559.7	569.0	541.3
80°	260.2	356.7	456.4	481.6	481.6
82.5°	163.6	258.9	362.3	401.0	452.1
85°	86.1	177.1	274.9	332.8	426.3
87.5°	27.7	118.1	212.2	279.9	377.0
90°	1.8	84.3	175.9	246.6	332.1
92.5°	0.6	76.3	164.8	232.5	302.6
95°	0.6	72.6	157.5	221.4	285.4
97.5°	0.6	68.3	150.1	207.9	254.0
100°	0.6	64.6	142.1	194.4	223.9
102.5°	0.6	61.5	135.9	179.0	190.7
105°	0.6	58.4	129.2	161.2	161.2
107.5°	0.6	56.6	123.0	145.8	140.9
110°	0.6	54.1	116.9	134.1	132.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	51.7	111.9	127.9	132.2
115°	0.6	49.2	107.6	127.9	137.8
117.5°	0.6	46.7	105.2	130.4	143.3
120°	0.6	44.3	103.9	132.9	147.6
122.5°	0.6	41.8	101.5	133.5	148.9
125°	0.6	39.4	97.8	131.6	148.2
127.5°	0.6	36.3	94.1	128.6	145.8
130°	0.6	32.6	89.2	124.2	142.1
132.5°	1.2	28.9	84.3	118.1	135.9
135°	1.2	25.2	78.1	111.9	127.9
137.5°	1.2	20.9	71.3	103.3	118.1
140°	1.2	17.2	63.4	94.7	107.6
142.5°	1.2	13.5	54.7	85.5	96.6
145°	1.2	10.5	46.1	76.3	86.1
147.5°	1.2	7.4	38.8	65.2	74.4
150°	1.2	5.5	31.4	56.0	63.4
152.5°	1.2	3.7	24.0	45.5	52.9
155°	1.2	1.8	17.8	36.9	43.1
157.5°	1.2	1.2	12.3	27.7	32.6
160°	1.8	0.6	8.0	19.1	24.0
162.5°	1.8	0.6	4.3	11.7	16.0
165°	1.8	0.6	1.2	6.2	9.2
167.5°	1.8	0.6	0.0	1.8	3.7
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)