

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: P241412

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241412
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-LD4-50-3STD-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

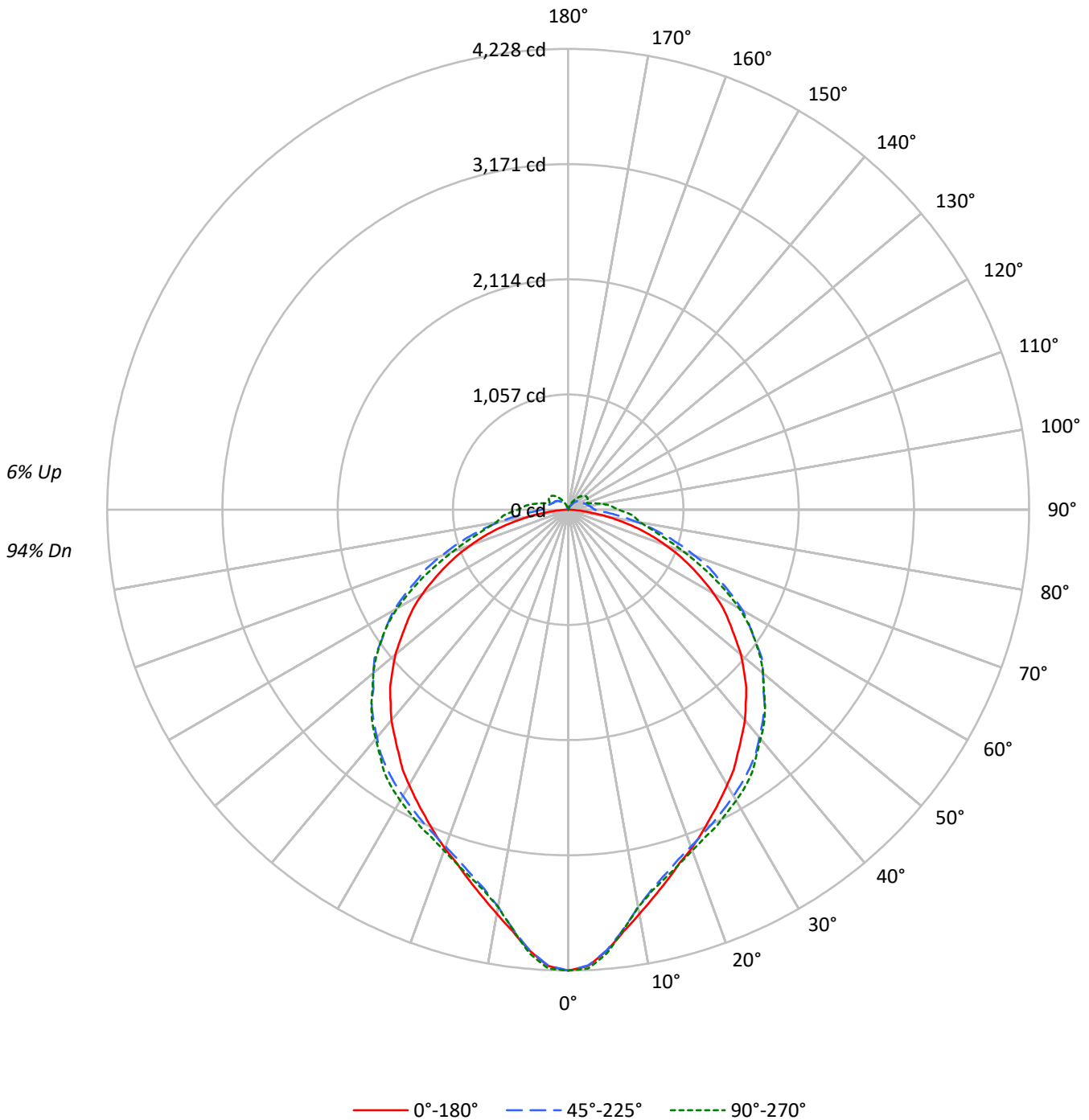
Lumens per Lamp: N/A
Luminaire Lumens: 11848.0 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.09 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 3.73' x H: 0.15')
CIE Type: Direct

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°	18896	18896	18896
5°	18157	17910	17972
10°	16969	16243	16152
15°	16099	15234	15205
20°	15507	14644	14628
25°	15037	14330	14318
30°	14715	14117	14070
35°	14420	13981	13861
40°	14251	13755	13465
45°	14049	13566	13167
50°	13746	13255	12780
55°	13324	12840	12337
60°	12914	12462	11644
65°	12152	11560	10448
70°	11223	10679	9113
75°	9933	9431	7998
80°	7628	7927	7565
85°	4246	6248	8495



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.6	3.2
10°-20°	984.5	8.3
20°-30°	1460.7	12.3
30°-40°	1795.9	15.2
40°-50°	1919.6	16.2
50°-60°	1813.3	15.3
60°-70°	1440.0	12.2
70°-80°	900.7	7.6
80°-90°	412.7	3.5
90°-100°	224.7	1.9
100°-110°	160.3	1.4
110°-120°	123.5	1.0
120°-130°	106.5	0.9
130°-140°	75.0	0.6
140°-150°	39.0	0.3
150°-160°	13.3	0.1
160°-170°	1.8	0.0
170°-180°	0.0	0.0
0°-30°	2821.7	23.8
0°-40°	4617.7	39.0
0°-60°	8350.5	70.5
0°-90°	11103.9	93.7
90°-120°	508.5	4.3
90°-150°	729.0	6.2
90°-180°	744.0	6.3
0°-180°	11848.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4228	4228	4228	4228	4228	
5°	4061	4058	4058	4073	4085	378
15°	3516	3495	3458	3466	3485	992
25°	3105	3132	3160	3206	3209	1433
35°	2715	2805	2899	2940	2942	1703
45°	2310	2423	2548	2555	2554	1777
55°	1805	1970	2089	2106	2094	1616
65°	1246	1410	1532	1523	1466	1234
75°	659	795	928	918	854	692
85°	120	246	383	463	593	149
90°	3	117	245	343	462	6
95°	1	101	219	308	397	1
105°	1	81	180	224	224	1
115°	1	68	150	178	192	1
125°	1	55	136	183	206	1
135°	2	35	109	156	178	1
145°	2	15	64	106	120	1
155°	2	3	25	51	60	1
165°	3	1	2	9	13	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: FVS8M-4-LD4-50-3STD-P125-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4228.0	4228.0	4228.0	4228.0	4228.0
2.5°	4190.3	4190.3	4185.2	4204.0	4213.4
5°	4061.1	4058.5	4057.6	4073.1	4085.0
7.5°	3901.0	3901.0	3882.2	3881.3	3883.0
10°	3764.9	3745.2	3697.3	3706.7	3700.7
12.5°	3635.6	3617.6	3561.1	3568.0	3576.6
15°	3515.8	3495.2	3457.6	3466.1	3485.0
17.5°	3399.4	3400.2	3362.5	3404.5	3404.5
20°	3306.9	3299.2	3288.9	3324.0	3328.3
22.5°	3206.7	3210.2	3220.4	3264.1	3259.8
25°	3104.9	3132.3	3159.7	3205.9	3209.3
27.5°	3010.7	3050.9	3095.5	3152.8	3140.0
30°	2915.7	2976.5	3031.3	3092.9	3081.8
32.5°	2825.8	2899.4	2968.8	3024.4	3017.6
35°	2715.4	2805.3	2898.6	2939.7	2942.2
37.5°	2615.2	2723.1	2823.2	2858.3	2836.9
40°	2522.8	2638.3	2728.2	2759.0	2745.3
42.5°	2410.6	2528.8	2639.2	2648.6	2658.9
45°	2309.6	2422.6	2548.4	2555.3	2553.6
47.5°	2184.6	2331.0	2423.5	2451.7	2432.9
50°	2069.1	2205.2	2331.9	2352.4	2332.7
52.5°	1928.7	2075.9	2239.4	2232.6	2220.6
55°	1805.4	1969.8	2088.7	2105.9	2093.9
57.5°	1686.4	1838.8	1968.0	1981.7	1964.6
60°	1542.6	1679.6	1846.5	1837.9	1812.2
62.5°	1391.1	1544.3	1689.0	1681.3	1641.0
65°	1245.5	1409.9	1532.3	1522.9	1466.4
67.5°	1104.3	1247.3	1405.6	1368.8	1288.3
70°	951.1	1082.0	1237.8	1206.2	1130.0
72.5°	807.2	937.4	1079.5	1062.4	981.0
75°	659.2	795.3	928.0	918.5	853.5
77.5°	503.4	642.0	779.0	791.8	753.3
80°	362.1	496.5	635.2	670.3	670.3
82.5°	227.7	360.4	504.2	558.1	629.2
85°	119.8	246.5	382.7	463.1	593.2
87.5°	38.5	164.4	295.3	389.5	524.8
90°	2.6	117.3	244.8	343.3	462.3
92.5°	0.9	106.1	229.4	323.6	421.2
95°	0.9	101.0	219.1	308.2	397.2
97.5°	0.9	95.0	208.9	289.3	353.5
100°	0.9	89.9	197.7	270.5	311.6
102.5°	0.9	85.6	189.2	249.1	265.4
105°	0.9	81.3	179.8	224.3	224.3
107.5°	0.9	78.8	171.2	202.9	196.0
110°	0.9	75.3	162.6	186.6	184.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	71.9	155.8	178.1	184.0
115°	0.9	68.5	149.8	178.1	191.8
117.5°	0.9	65.1	146.4	181.5	199.5
120°	0.9	61.6	144.7	184.9	205.5
122.5°	0.9	58.2	141.2	185.8	207.2
125°	0.9	54.8	136.1	183.2	206.3
127.5°	0.9	50.5	131.0	178.9	202.9
130°	0.9	45.4	124.1	172.9	197.7
132.5°	1.7	40.2	117.3	164.4	189.2
135°	1.7	35.1	108.7	155.8	178.1
137.5°	1.7	29.1	99.3	143.8	164.4
140°	1.7	24.0	88.2	131.8	149.8
142.5°	1.7	18.8	76.2	119.0	134.4
145°	1.7	14.6	64.2	106.1	119.8
147.5°	1.7	10.3	53.9	90.7	103.6
150°	1.7	7.7	43.7	77.9	88.2
152.5°	1.7	5.1	33.4	63.3	73.6
155°	1.7	2.6	24.8	51.4	59.9
157.5°	1.7	1.7	17.1	38.5	45.4
160°	2.6	0.9	11.1	26.5	33.4
162.5°	2.6	0.9	6.0	16.3	22.3
165°	2.6	0.9	1.7	8.6	12.8
167.5°	2.6	0.9	0.0	2.6	5.1
170°	2.6	0.9	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)