

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: P241409

Luminaire Tested: **FVS8M-4-LD4-30-3STD-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241409
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-LD4-30-3STD-P125-UNV-EDC1
Description: FAILSAFE FVS8M LED FIXTURE
4FT LENGTH, 3-MODULE LED WITH P125 LENS
Light Source: (252) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

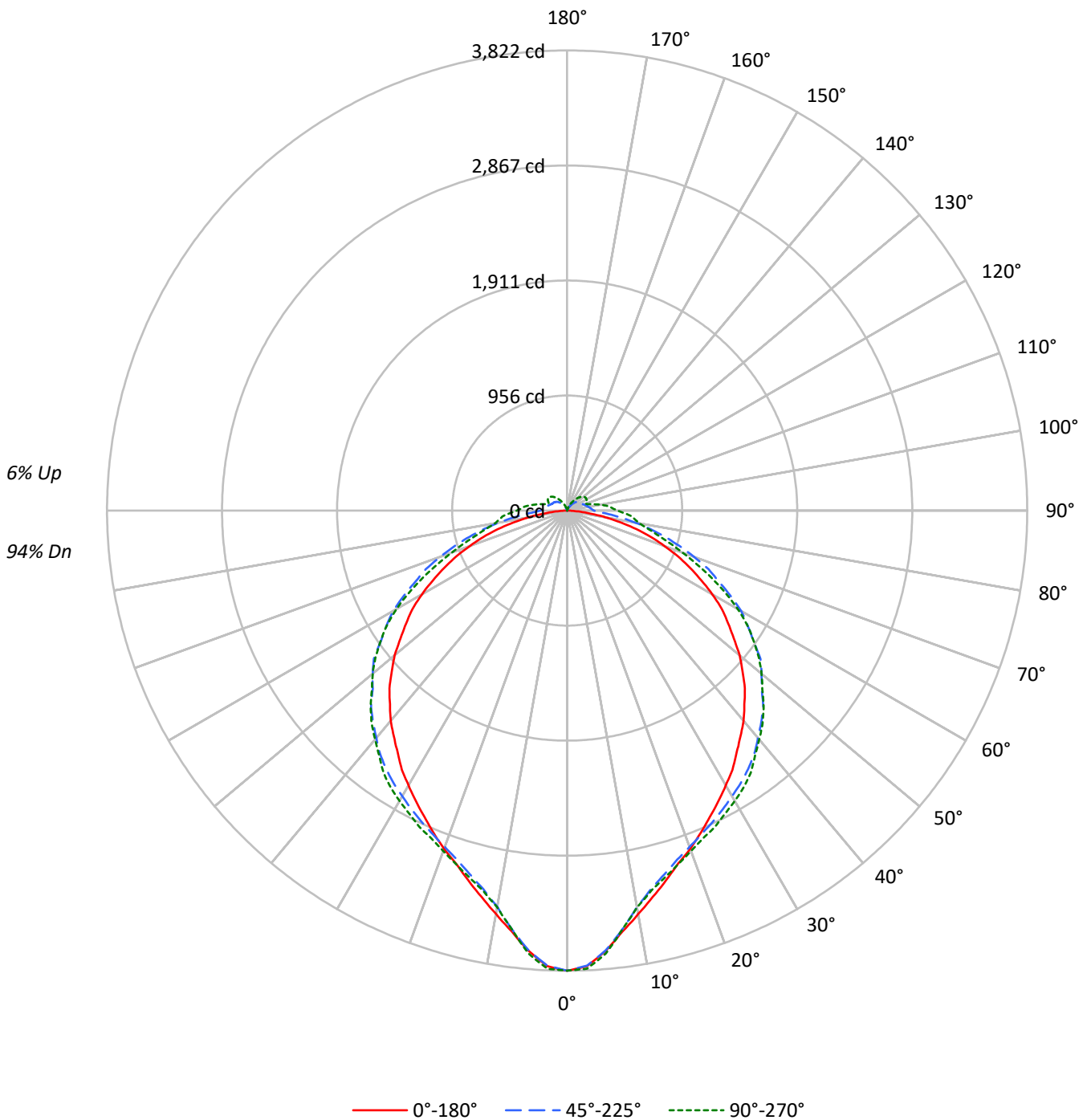
Lumens per Lamp: N/A
Luminaire Lumens: 10709.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.09 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 3.73' x H: 0.15')
CIE Type: Direct

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

TEST NUMBER: P241409

CATALOG NUMBER: FVS8M-4-LD4-30-3STD-P125-UNV-EDC1

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°	17079	17079	17079
5°	16412	16189	16244
10°	15337	14681	14599
15°	14551	13769	13743
20°	14017	13236	13221
25°	13591	12952	12942
30°	13300	12759	12717
35°	13034	12637	12529
40°	12881	12432	12171
45°	12698	12262	11901
50°	12424	11980	11552
55°	12042	11606	11151
60°	11672	11264	10525
65°	10984	10449	9443
70°	10143	9652	8236
75°	8978	8524	7229
80°	6895	7165	6837
85°	3838	5647	7678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.4	3.2
10°-20°	889.8	8.3
20°-30°	1320.2	12.3
30°-40°	1623.3	15.2
40°-50°	1735.0	16.2
50°-60°	1639.0	15.3
60°-70°	1301.6	12.2
70°-80°	814.1	7.6
80°-90°	373.0	3.5
90°-100°	203.1	1.9
100°-110°	144.9	1.4
110°-120°	111.6	1.0
120°-130°	96.3	0.9
130°-140°	67.8	0.6
140°-150°	35.3	0.3
150°-160°	12.0	0.1
160°-170°	1.6	0.0
170°-180°	0.0	0.0
0°-30°	2550.5	23.8
0°-40°	4173.7	39.0
0°-60°	7547.8	70.5
0°-90°	10036.4	93.7
90°-120°	459.6	4.3
90°-150°	658.9	6.2
90°-180°	673.0	6.3
0°-180°	10709.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3822	3822	3822	3822	3822	
5°	3671	3668	3668	3682	3692	341
15°	3178	3159	3125	3133	3150	896
25°	2806	2831	2856	2898	2901	1296
35°	2454	2536	2620	2657	2659	1539
45°	2088	2190	2304	2310	2308	1606
55°	1632	1780	1888	1903	1893	1461
65°	1126	1274	1385	1376	1325	1115
75°	596	719	839	830	771	626
85°	108	223	346	419	536	135
90°	2	106	221	310	418	6
95°	1	91	198	278	359	1
105°	1	74	162	203	203	1
115°	1	62	135	161	173	1
125°	1	50	123	166	186	1
135°	2	32	98	141	161	1
145°	2	13	58	96	108	1
155°	2	2	22	46	54	1
165°	2	1	2	8	12	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P241409

CATALOG NUMBER: FVS8M-4-LD4-30-3STD-P125-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3821.5	3821.5	3821.5	3821.5	3821.5
2.5°	3787.5	3787.5	3782.9	3799.9	3808.4
5°	3670.7	3668.3	3667.6	3681.5	3692.3
7.5°	3526.0	3526.0	3509.0	3508.2	3509.7
10°	3402.9	3385.2	3341.8	3350.3	3344.9
12.5°	3286.1	3269.9	3218.8	3225.0	3232.7
15°	3177.8	3159.2	3125.2	3132.9	3149.9
17.5°	3072.6	3073.3	3039.3	3077.2	3077.2
20°	2989.0	2982.0	2972.7	3004.5	3008.3
22.5°	2898.5	2901.6	2910.8	2950.3	2946.4
25°	2806.4	2831.1	2855.9	2897.7	2900.8
27.5°	2721.3	2757.6	2797.9	2849.7	2838.1
30°	2635.4	2690.3	2739.8	2795.6	2785.5
32.5°	2554.1	2620.7	2683.4	2733.7	2727.5
35°	2454.3	2535.6	2619.9	2657.1	2659.4
37.5°	2363.8	2461.3	2551.8	2583.5	2564.2
40°	2280.2	2384.7	2465.9	2493.8	2481.4
42.5°	2178.9	2285.7	2385.5	2394.0	2403.3
45°	2087.6	2189.7	2303.5	2309.6	2308.1
47.5°	1974.6	2106.9	2190.5	2216.0	2199.0
50°	1870.2	1993.2	2107.7	2126.3	2108.5
52.5°	1743.3	1876.3	2024.1	2017.9	2007.1
55°	1631.8	1780.4	1887.9	1903.4	1892.6
57.5°	1524.3	1662.0	1778.8	1791.2	1775.8
60°	1394.3	1518.1	1669.0	1661.2	1638.0
62.5°	1257.3	1395.8	1526.6	1519.6	1483.3
65°	1125.8	1274.4	1385.0	1376.5	1325.4
67.5°	998.1	1127.4	1270.5	1237.2	1164.5
70°	859.6	978.0	1118.8	1090.2	1021.3
72.5°	729.6	847.3	975.7	960.2	886.7
75°	595.8	718.8	838.7	830.2	771.4
77.5°	455.0	580.3	704.1	715.7	680.9
80°	327.3	448.8	574.1	605.8	605.8
82.5°	205.8	325.7	455.7	504.5	568.7
85°	108.3	222.8	345.9	418.6	536.2
87.5°	34.8	148.6	266.9	352.1	474.3
90°	2.3	106.0	221.3	310.3	417.8
92.5°	0.8	95.9	207.4	292.5	380.7
95°	0.8	91.3	198.1	278.5	359.0
97.5°	0.8	85.9	188.8	261.5	319.6
100°	0.8	81.2	178.7	244.5	281.6
102.5°	0.8	77.4	171.0	225.2	239.9
105°	0.8	73.5	162.5	202.7	202.7
107.5°	0.8	71.2	154.7	183.4	177.2
110°	0.8	68.1	147.0	168.7	166.4



TEST NUMBER: P241409

CATALOG NUMBER: FVS8M-4-LD4-30-3STD-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	65.0	140.8	160.9	166.4
115°	0.8	61.9	135.4	160.9	173.3
117.5°	0.8	58.8	132.3	164.0	180.3
120°	0.8	55.7	130.8	167.1	185.7
122.5°	0.8	52.6	127.7	167.9	187.2
125°	0.8	49.5	123.0	165.6	186.5
127.5°	0.8	45.7	118.4	161.7	183.4
130°	0.8	41.0	112.2	156.3	178.7
132.5°	1.5	36.4	106.0	148.6	171.0
135°	1.5	31.7	98.3	140.8	160.9
137.5°	1.5	26.3	89.8	130.0	148.6
140°	1.5	21.7	79.7	119.2	135.4
142.5°	1.5	17.0	68.9	107.6	121.5
145°	1.5	13.2	58.0	95.9	108.3
147.5°	1.5	9.3	48.7	82.0	93.6
150°	1.5	7.0	39.5	70.4	79.7
152.5°	1.5	4.6	30.2	57.3	66.5
155°	1.5	2.3	22.4	46.4	54.2
157.5°	1.5	1.5	15.5	34.8	41.0
160°	2.3	0.8	10.1	24.0	30.2
162.5°	2.3	0.8	5.4	14.7	20.1
165°	2.3	0.8	1.5	7.7	11.6
167.5°	2.3	0.8	0.0	2.3	4.6
170°	2.3	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)