

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: P241416

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241416
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-LD4-50-3HI-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

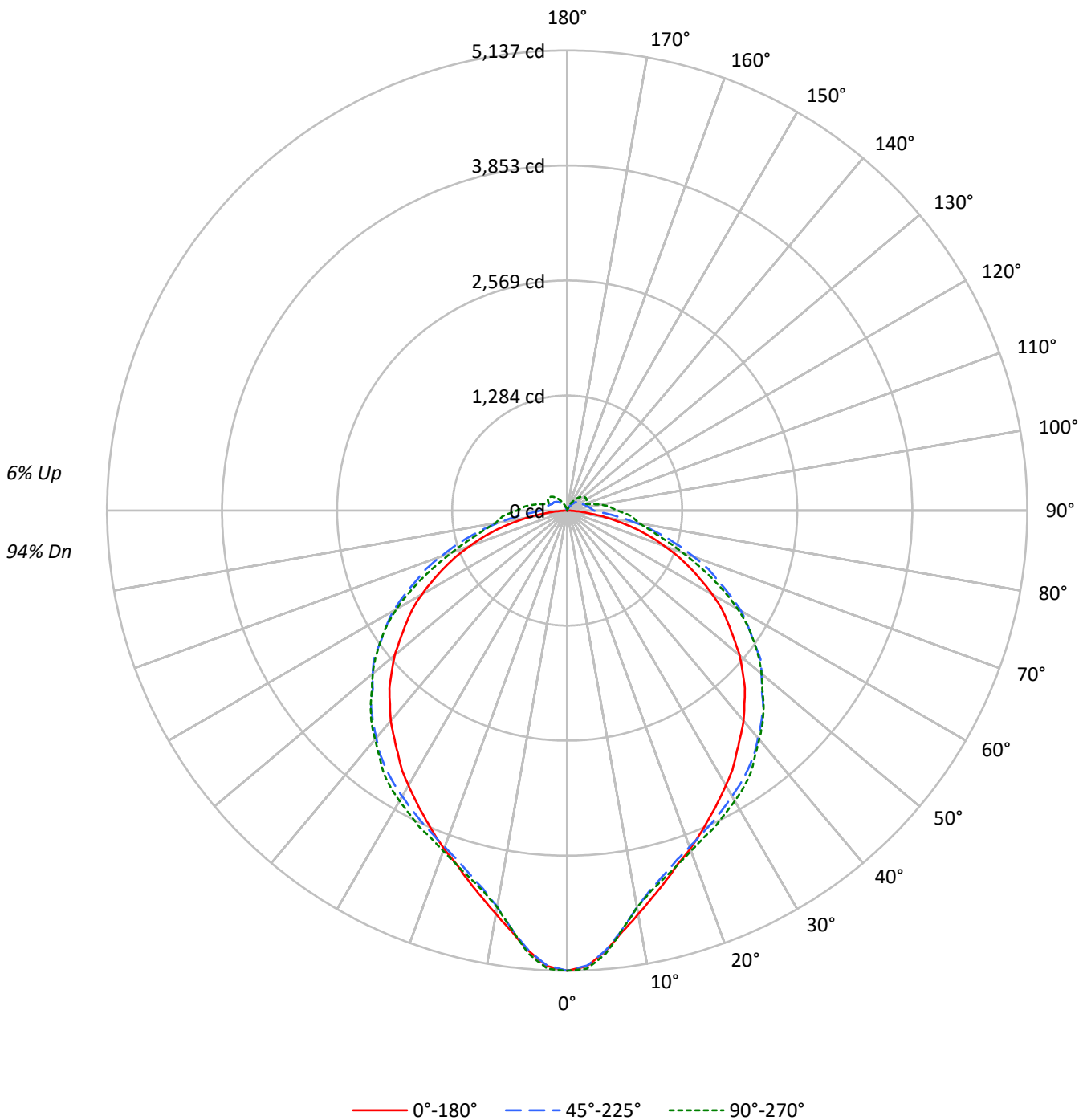
Lumens per Lamp: N/A
Luminaire Lumens: 14394.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.09 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 3.73' x H: 0.15')
CIE Type: Direct

Input Watts (W): 129.5
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°	22957	22957	22957
5°	22059	21759	21834
10°	20615	19733	19622
15°	19558	18507	18472
20°	18840	17791	17771
25°	18268	17409	17396
30°	17877	17150	17093
35°	17519	16985	16840
40°	17313	16711	16359
45°	17067	16482	15996
50°	16699	16103	15526
55°	16187	15600	14988
60°	15689	15140	14147
65°	14764	14045	12693
70°	13633	12974	11071
75°	12067	11458	9717
80°	9267	9631	9190
85°	5160	7590	10320



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.5	3.2
10°-20°	1196.0	8.3
20°-30°	1774.5	12.3
30°-40°	2181.8	15.2
40°-50°	2332.1	16.2
50°-60°	2203.0	15.3
60°-70°	1749.4	12.2
70°-80°	1094.2	7.6
80°-90°	501.4	3.5
90°-100°	273.0	1.9
100°-110°	194.8	1.4
110°-120°	150.0	1.0
120°-130°	129.4	0.9
130°-140°	91.1	0.6
140°-150°	47.4	0.3
150°-160°	16.1	0.1
160°-170°	2.2	0.0
170°-180°	0.0	0.0
0°-30°	3428.1	23.8
0°-40°	5609.9	39.0
0°-60°	10145.0	70.5
0°-90°	13490.0	93.7
90°-120°	617.7	4.3
90°-150°	885.6	6.2
90°-180°	904.0	6.3
0°-180°	14394.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5137	5137	5137	5137	5137	
5°	4934	4931	4930	4948	4963	459
15°	4271	4246	4201	4211	4234	1205
25°	3772	3805	3839	3895	3899	1742
35°	3299	3408	3521	3571	3574	2069
45°	2806	2943	3096	3104	3102	2158
55°	2193	2393	2538	2558	2544	1964
65°	1513	1713	1862	1850	1782	1499
75°	801	966	1127	1116	1037	841
85°	146	300	465	563	721	181
90°	3	142	297	417	562	7
95°	1	123	266	374	483	1
105°	1	99	218	272	272	1
115°	1	83	182	216	233	1
125°	1	67	165	223	251	1
135°	2	43	132	189	216	2
145°	2	18	78	129	146	1
155°	2	3	30	62	73	1
165°	3	1	2	10	16	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°	5136.6	5136.6	5136.6	5136.6	5136.6
2.5°	5090.8	5090.8	5084.6	5107.4	5118.9
5°	4933.8	4930.6	4929.6	4948.3	4962.9
7.5°	4739.3	4739.3	4716.4	4715.4	4717.4
10°	4573.9	4550.0	4491.8	4503.2	4495.9
12.5°	4416.9	4395.0	4326.4	4334.7	4345.1
15°	4271.3	4246.3	4200.6	4211.0	4233.8
17.5°	4129.8	4130.9	4085.1	4136.1	4136.1
20°	4017.5	4008.2	3995.7	4038.3	4043.5
22.5°	3895.8	3900.0	3912.5	3965.5	3960.3
25°	3772.1	3805.4	3838.6	3894.8	3899.0
27.5°	3657.7	3706.6	3760.6	3830.3	3814.7
30°	3542.2	3616.1	3682.6	3757.5	3744.0
32.5°	3433.0	3522.5	3606.7	3674.3	3666.0
35°	3298.9	3408.1	3521.4	3571.4	3574.5
37.5°	3177.2	3308.2	3429.9	3472.6	3446.6
40°	3064.9	3205.3	3314.5	3351.9	3335.3
42.5°	2928.6	3072.2	3206.3	3217.8	3230.2
45°	2805.9	2943.2	3096.1	3104.4	3102.3
47.5°	2654.1	2831.9	2944.2	2978.6	2955.7
50°	2513.7	2679.0	2833.0	2857.9	2834.0
52.5°	2343.1	2522.0	2720.6	2712.3	2697.8
55°	2193.4	2393.0	2537.6	2558.4	2543.8
57.5°	2048.8	2233.9	2391.0	2407.6	2386.8
60°	1874.1	2040.5	2243.3	2232.9	2201.7
62.5°	1690.0	1876.2	2051.9	2042.6	1993.7
65°	1513.2	1712.9	1861.6	1850.2	1781.5
67.5°	1341.6	1515.3	1707.7	1663.0	1565.2
70°	1155.4	1314.6	1503.8	1465.4	1372.8
72.5°	980.7	1138.8	1311.4	1290.6	1191.8
75°	800.8	966.2	1127.4	1115.9	1036.9
77.5°	611.5	780.0	946.4	962.0	915.2
80°	439.9	603.2	771.7	814.3	814.3
82.5°	276.6	437.8	612.6	678.1	764.4
85°	145.6	299.5	464.9	562.6	720.7
87.5°	46.8	199.7	358.8	473.2	637.5
90°	3.1	142.5	297.4	417.0	561.6
92.5°	1.0	129.0	278.7	393.1	511.7
95°	1.0	122.7	266.2	374.4	482.6
97.5°	1.0	115.4	253.8	351.5	429.5
100°	1.0	109.2	240.2	328.6	378.6
102.5°	1.0	104.0	229.8	302.6	322.4
105°	1.0	98.8	218.4	272.5	272.5
107.5°	1.0	95.7	208.0	246.5	238.2
110°	1.0	91.5	197.6	226.7	223.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	87.4	189.3	216.3	223.6
115°	1.0	83.2	182.0	216.3	233.0
117.5°	1.0	79.0	177.8	220.5	242.3
120°	1.0	74.9	175.8	224.6	249.6
122.5°	1.0	70.7	171.6	225.7	251.7
125°	1.0	66.6	165.4	222.6	250.6
127.5°	1.0	61.4	159.1	217.4	246.5
130°	1.0	55.1	150.8	210.1	240.2
132.5°	2.1	48.9	142.5	199.7	229.8
135°	2.1	42.6	132.1	189.3	216.3
137.5°	2.1	35.4	120.6	174.7	199.7
140°	2.1	29.1	107.1	160.2	182.0
142.5°	2.1	22.9	92.6	144.6	163.3
145°	2.1	17.7	78.0	129.0	145.6
147.5°	2.1	12.5	65.5	110.2	125.8
150°	2.1	9.4	53.0	94.6	107.1
152.5°	2.1	6.2	40.6	77.0	89.4
155°	2.1	3.1	30.2	62.4	72.8
157.5°	2.1	2.1	20.8	46.8	55.1
160°	3.1	1.0	13.5	32.2	40.6
162.5°	3.1	1.0	7.3	19.8	27.0
165°	3.1	1.0	2.1	10.4	15.6
167.5°	3.1	1.0	0.0	3.1	6.2
170°	3.1	1.0	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)