

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: P241414

Luminaire Tested: **FVS8M-4-LD4-35-3HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241414
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-LD4-35-3HI-P125-UNV-EDC1
Description: FAILSAFE FVS8M LED FIXTURE
4FT LENGTH, 3-MODULE LED WITH P125 LENS
Light Source: (252) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

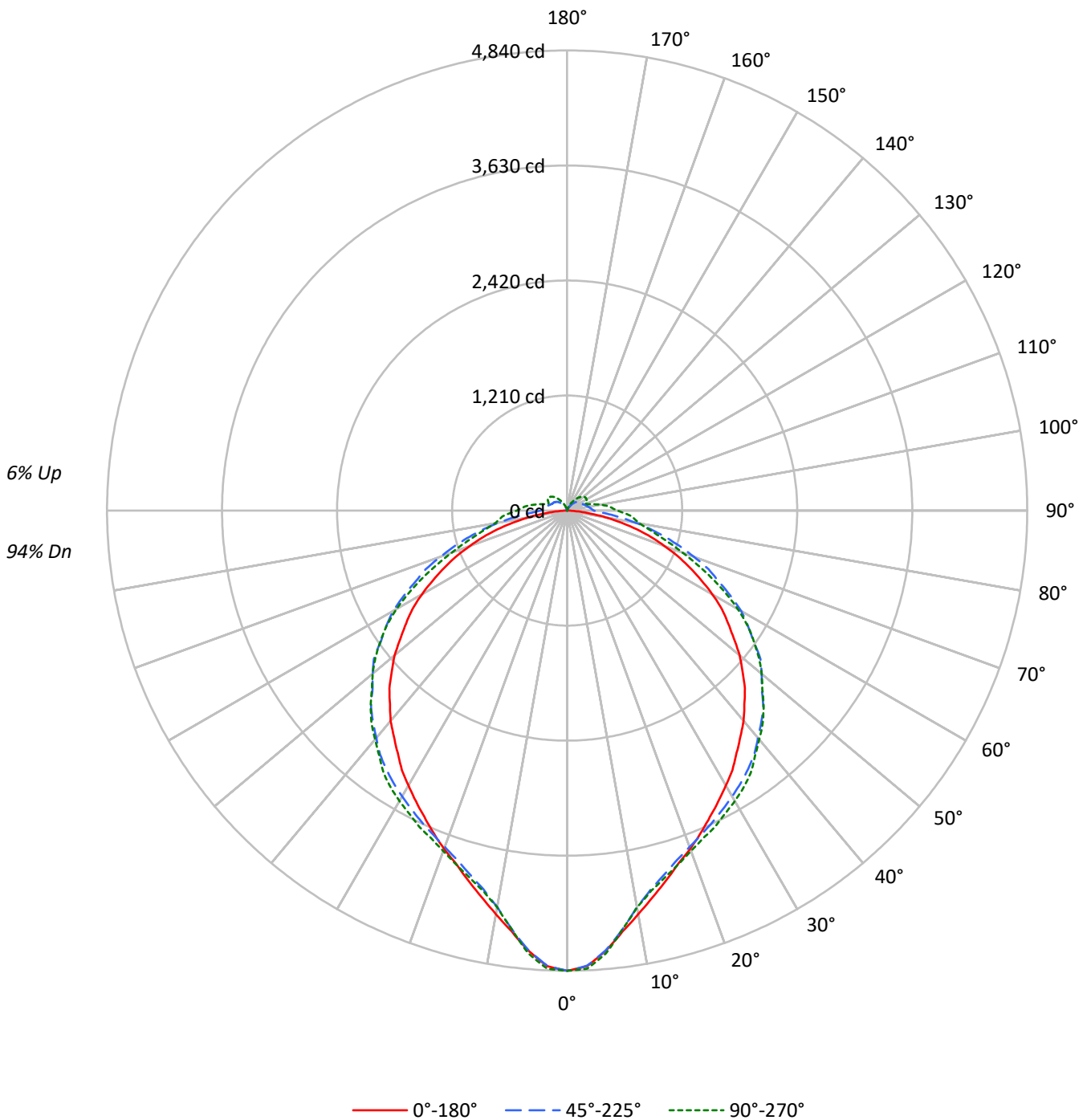
Lumens per Lamp: N/A
Luminaire Lumens: 13564.0 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.09 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 3.73' x H: 0.15')
CIE Type: Direct

Input Watts (W): 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°	21633	21633	21633
5°	20787	20504	20575
10°	19427	18595	18491
15°	18430	17440	17407
20°	17753	16765	16746
25°	17215	16405	16392
30°	16846	16161	16108
35°	16509	16006	15869
40°	16315	15747	15416
45°	16083	15531	15074
50°	15736	15174	14631
55°	15253	14700	14124
60°	14784	14266	13331
65°	13912	13235	11961
70°	12847	12226	10432
75°	11371	10797	9156
80°	8734	9075	8660
85°	4862	7152	9726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.2	3.2
10°-20°	1127.1	8.3
20°-30°	1672.2	12.3
30°-40°	2056.0	15.2
40°-50°	2197.6	16.2
50°-60°	2076.0	15.3
60°-70°	1648.6	12.2
70°-80°	1031.1	7.6
80°-90°	472.5	3.5
90°-100°	257.2	1.9
100°-110°	183.6	1.4
110°-120°	141.3	1.0
120°-130°	121.9	0.9
130°-140°	85.9	0.6
140°-150°	44.7	0.3
150°-160°	15.2	0.1
160°-170°	2.1	0.0
170°-180°	0.0	0.0
0°-30°	3230.4	23.8
0°-40°	5286.5	39.0
0°-60°	9560.0	70.5
0°-90°	12712.1	93.7
90°-120°	582.1	4.3
90°-150°	834.6	6.2
90°-180°	852.0	6.3
0°-180°	13564.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4840	4840	4840	4840	4840	
5°	4649	4646	4645	4663	4677	433
15°	4025	4002	3958	3968	3990	1135
25°	3555	3586	3617	3670	3674	1641
35°	3109	3212	3318	3365	3368	1950
45°	2644	2774	2918	2925	2923	2034
55°	2067	2255	2391	2411	2397	1851
65°	1426	1614	1754	1744	1679	1413
75°	755	910	1062	1052	977	793
85°	137	282	438	530	679	170
90°	3	134	280	393	529	7
95°	1	116	251	353	455	1
105°	1	93	206	257	257	1
115°	1	78	172	204	220	1
125°	1	63	156	210	236	1
135°	2	40	124	178	204	1
145°	2	17	74	122	137	1
155°	2	3	28	59	69	1
165°	3	1	2	10	15	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°	4840.4	4840.4	4840.4	4840.4	4840.4
2.5°	4797.2	4797.2	4791.4	4812.9	4823.7
5°	4649.3	4646.3	4645.3	4663.0	4676.7
7.5°	4466.0	4466.0	4444.4	4443.5	4445.4
10°	4310.2	4287.6	4232.7	4243.5	4236.7
12.5°	4162.2	4141.6	4076.9	4084.8	4094.6
15°	4025.0	4001.5	3958.3	3968.1	3989.7
17.5°	3891.7	3892.7	3849.6	3897.6	3897.6
20°	3785.9	3777.0	3765.3	3805.5	3810.4
22.5°	3671.2	3675.1	3686.9	3736.8	3731.9
25°	3554.6	3585.9	3617.3	3670.2	3674.1
27.5°	3446.8	3492.8	3543.8	3609.4	3594.7
30°	3338.0	3407.6	3470.3	3540.8	3528.1
32.5°	3235.1	3319.4	3398.7	3462.4	3454.6
35°	3108.7	3211.6	3318.4	3365.4	3368.4
37.5°	2994.0	3117.5	3232.1	3272.3	3247.8
40°	2888.1	3020.4	3123.4	3158.6	3143.0
42.5°	2759.8	2895.0	3021.4	3032.2	3044.0
45°	2644.1	2773.5	2917.5	2925.4	2923.4
47.5°	2501.0	2668.6	2774.5	2806.8	2785.2
50°	2368.7	2524.6	2669.6	2693.1	2670.6
52.5°	2208.0	2376.6	2563.8	2555.9	2542.2
55°	2066.9	2255.0	2391.3	2410.9	2397.2
57.5°	1930.7	2105.1	2253.1	2268.8	2249.2
60°	1766.0	1922.8	2113.9	2104.1	2074.7
62.5°	1592.5	1768.0	1933.6	1924.8	1878.7
65°	1425.9	1614.1	1754.3	1743.5	1678.8
67.5°	1264.2	1427.9	1609.2	1567.1	1474.9
70°	1088.8	1238.8	1417.1	1380.9	1293.6
72.5°	924.2	1073.1	1235.8	1216.2	1123.1
75°	754.6	910.4	1062.4	1051.6	977.1
77.5°	576.3	735.0	891.8	906.5	862.4
80°	414.6	568.4	727.2	767.4	767.4
82.5°	260.7	412.6	577.2	639.0	720.3
85°	137.2	282.2	438.1	530.2	679.2
87.5°	44.1	188.2	338.1	445.9	600.8
90°	2.9	134.3	280.3	393.0	529.2
92.5°	1.0	121.5	262.6	370.5	482.2
95°	1.0	115.6	250.9	352.8	454.7
97.5°	1.0	108.8	239.1	331.2	404.8
100°	1.0	102.9	226.4	309.7	356.7
102.5°	1.0	98.0	216.6	285.2	303.8
105°	1.0	93.1	205.8	256.8	256.8
107.5°	1.0	90.2	196.0	232.3	224.4
110°	1.0	86.2	186.2	213.6	210.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	82.3	178.4	203.8	210.7
115°	1.0	78.4	171.5	203.8	219.5
117.5°	1.0	74.5	167.6	207.8	228.3
120°	1.0	70.6	165.6	211.7	235.2
122.5°	1.0	66.6	161.7	212.7	237.2
125°	1.0	62.7	155.8	209.7	236.2
127.5°	1.0	57.8	149.9	204.8	232.3
130°	1.0	51.9	142.1	198.0	226.4
132.5°	2.0	46.1	134.3	188.2	216.6
135°	2.0	40.2	124.5	178.4	203.8
137.5°	2.0	33.3	113.7	164.6	188.2
140°	2.0	27.4	100.9	150.9	171.5
142.5°	2.0	21.6	87.2	136.2	153.9
145°	2.0	16.7	73.5	121.5	137.2
147.5°	2.0	11.8	61.7	103.9	118.6
150°	2.0	8.8	50.0	89.2	100.9
152.5°	2.0	5.9	38.2	72.5	84.3
155°	2.0	2.9	28.4	58.8	68.6
157.5°	2.0	2.0	19.6	44.1	51.9
160°	2.9	1.0	12.7	30.4	38.2
162.5°	2.9	1.0	6.9	18.6	25.5
165°	2.9	1.0	2.0	9.8	14.7
167.5°	2.9	1.0	0.0	2.9	5.9
170°	2.9	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)