

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: P231982

Luminaire Tested: **FVS4M-4-LD4-40-2LO-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-18)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4M-4-LD4-40-2LO-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
4FT LENGTH, 2-MODULE LED WITH P125 LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

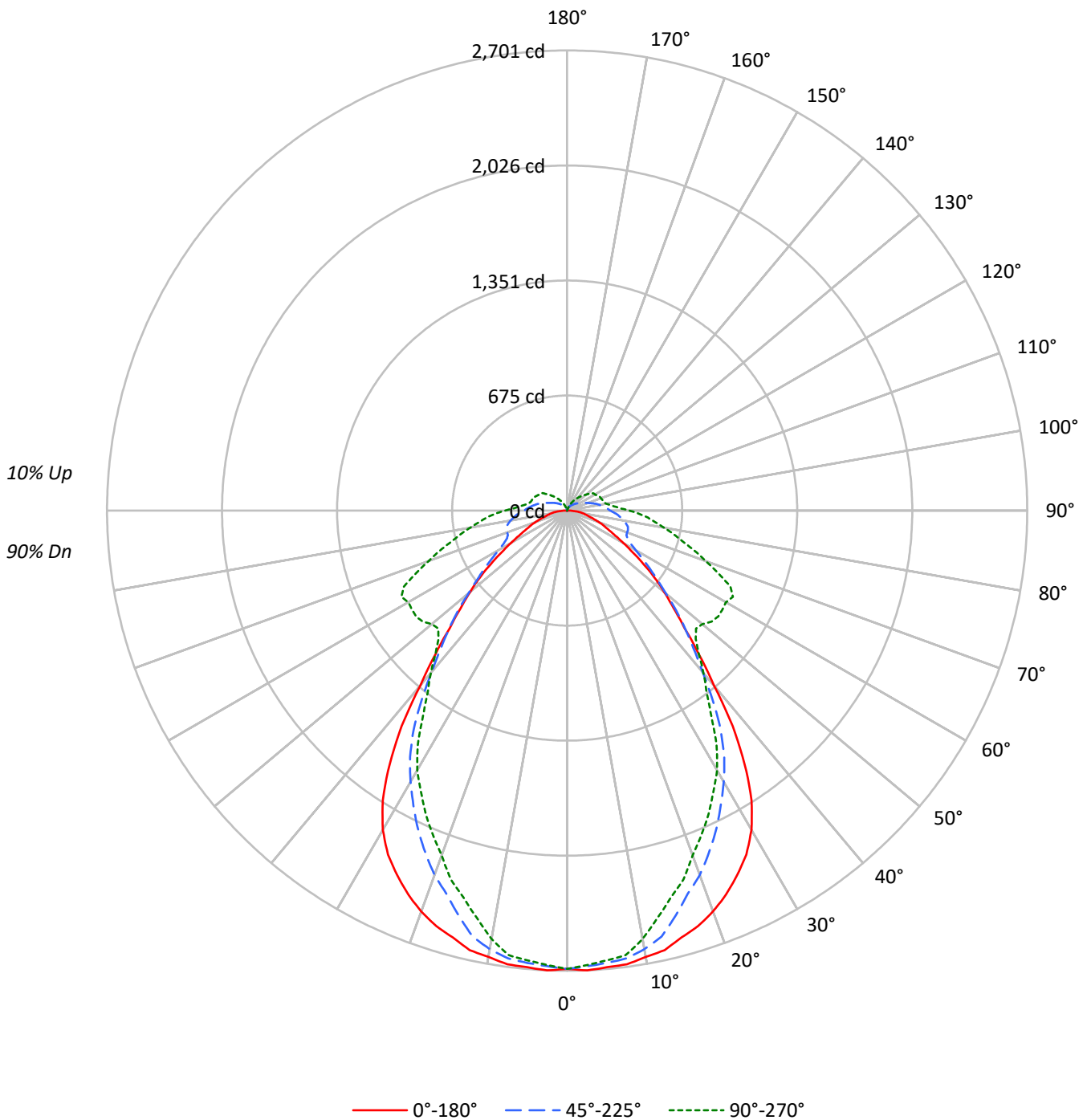
Lumens per Lamp: N/A
Luminaire Lumens: 6253.0 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.01 / 1.1
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 3.79' x H: 0.19')
CIE Type: Direct

Input Watts (W): 57.4
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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	106	101	96	92	102	97	93	90	91	88	85	86	83	81	81	78	76	74
2	96	88	81	76	93	85	79	74	80	75	71	76	71	68	71	68	65	62
3	89	78	70	64	85	76	69	63	72	65	60	67	62	58	64	59	56	53
4	82	70	62	55	79	68	60	54	64	58	52	61	55	51	58	53	49	46
5	75	63	55	48	73	61	53	47	58	51	46	55	49	45	53	47	43	41
6	70	57	49	43	68	56	48	42	53	46	41	51	45	40	48	43	39	37
7	65	52	44	38	63	51	43	38	49	42	37	47	40	36	44	39	35	33
8	61	48	40	35	59	47	39	34	45	38	33	43	37	33	41	36	32	30
9	57	45	37	31	55	44	36	31	42	35	30	40	34	30	38	33	29	27
10	54	41	34	29	52	40	33	28	39	32	28	37	31	27	36	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24436	24436	24436
5°	24430	23367	22962
10°	24328	22307	21301
15°	24076	20610	19051
20°	23783	18854	17088
25°	23137	17082	15387
30°	22067	15242	13714
35°	19472	13185	11520
40°	15269	10589	9826
45°	11927	8609	8571
50°	9912	6889	8540
55°	8114	5654	9234
60°	6389	4689	9588
65°	5259	4229	9939
70°	4642	4399	8671
75°	3976	4779	7601
80°	3922	4891	6852
85°	3702	4984	6308



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.4	4.1
10°-20°	695.8	11.1
20°-30°	969.6	15.5
30°-40°	999.3	16.0
40°-50°	795.0	12.7
50°-60°	618.6	9.9
60°-70°	540.8	8.6
70°-80°	456.0	7.3
80°-90°	309.0	4.9
90°-100°	195.6	3.1
100°-110°	145.1	2.3
110°-120°	111.4	1.8
120°-130°	80.4	1.3
130°-140°	47.2	0.8
140°-150°	24.8	0.4
150°-160°	9.6	0.2
160°-170°	1.5	0.0
170°-180°	0.0	0.0
0°-30°	1918.8	30.7
0°-40°	2918.1	46.7
0°-60°	4331.7	69.3
0°-90°	5637.4	90.2
90°-120°	452.0	7.2
90°-150°	604.5	9.7
90°-180°	616.0	9.9
0°-180°	6253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2690	2690	2690	2690	2690	
5°	2691	2685	2665	2662	2650	256
15°	2594	2579	2461	2380	2351	733
25°	2362	2222	2069	1996	1965	1085
35°	1817	1714	1571	1500	1475	1117
45°	974	999	978	1082	1067	770
55°	548	490	591	846	1083	493
65°	271	266	390	858	1057	275
75°	134	213	370	730	702	147
85°	56	108	299	458	476	52
90°	2	65	253	360	364	5
95°	2	58	222	286	278	2
105°	2	53	161	223	218	2
115°	2	45	107	192	201	2
125°	2	40	75	154	179	2
135°	3	32	51	97	121	2
145°	3	22	35	59	74	2
155°	3	12	22	27	35	1
165°	4	4	8	3	5	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°	2689.9	2689.9	2689.9	2689.9	2689.9
2.5°	2701.4	2694.9	2676.9	2679.8	2669.7
5°	2690.6	2684.8	2665.4	2662.5	2650.2
7.5°	2685.6	2673.3	2651.6	2642.3	2632.2
10°	2660.3	2646.6	2614.1	2575.1	2553.5
12.5°	2642.3	2622.8	2560.7	2481.3	2448.8
15°	2593.9	2578.7	2461.1	2380.3	2351.4
17.5°	2557.1	2512.3	2357.2	2298.7	2270.6
20°	2504.4	2429.3	2276.3	2199.8	2153.6
22.5°	2438.7	2320.4	2174.6	2100.2	2060.5
25°	2361.5	2221.5	2069.2	1996.3	1964.6
27.5°	2277.1	2103.1	1953.0	1888.0	1858.5
30°	2163.8	1992.7	1838.3	1780.5	1760.3
32.5°	2015.1	1857.0	1715.6	1659.3	1632.6
35°	1816.6	1714.1	1571.2	1500.5	1475.2
37.5°	1595.7	1553.9	1403.8	1372.0	1343.1
40°	1341.0	1361.2	1237.0	1248.6	1245.7
42.5°	1143.9	1172.1	1097.0	1171.4	1143.2
45°	974.3	998.9	977.9	1081.9	1067.4
47.5°	847.3	848.8	868.2	998.9	1025.6
50°	742.7	710.9	754.2	926.0	1036.4
52.5°	648.1	588.2	664.0	879.8	1069.6
55°	548.5	490.1	591.1	845.9	1082.6
57.5°	454.7	404.9	520.4	825.7	1080.4
60°	381.8	341.4	463.4	818.4	1076.1
62.5°	319.0	300.2	419.3	835.0	1097.0
65°	270.6	265.6	390.5	858.1	1057.3
67.5°	233.1	244.7	376.7	887.7	959.2
70°	198.5	233.1	374.6	866.8	864.6
72.5°	162.4	225.2	374.6	801.1	785.2
75°	134.2	212.9	369.5	730.4	701.5
77.5°	112.6	189.8	354.4	662.5	639.5
80°	96.0	161.7	337.0	591.8	576.7
82.5°	75.1	134.2	316.8	520.4	520.4
85°	55.6	108.3	298.8	458.3	475.6
87.5°	27.4	85.2	275.7	404.9	420.8
90°	2.2	65.0	253.3	360.1	363.8
92.5°	1.4	59.9	237.4	320.4	311.1
95°	2.2	58.5	221.6	285.8	277.9
97.5°	2.2	57.0	207.1	260.5	252.6
100°	1.4	55.6	192.0	243.9	232.4
102.5°	2.2	54.1	178.3	233.1	222.3
105°	2.2	52.7	160.9	223.0	218.0
107.5°	2.2	50.5	144.3	215.1	214.4
110°	2.2	48.4	130.6	205.0	211.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	46.9	116.9	195.6	208.6
115°	2.2	44.7	106.8	192.0	201.4
117.5°	2.2	43.3	98.9	191.3	194.9
120°	2.2	42.6	90.2	183.3	188.4
122.5°	2.2	41.9	82.3	170.3	186.2
125°	2.2	40.4	75.1	153.7	179.0
127.5°	2.2	39.0	68.6	138.6	161.7
130°	2.2	36.1	62.1	123.4	145.8
132.5°	2.2	33.9	56.3	107.5	132.8
135°	2.9	31.8	51.2	96.7	121.3
137.5°	2.9	29.6	45.5	85.9	109.7
140°	2.9	26.7	41.9	76.5	96.7
142.5°	2.9	24.5	38.3	67.8	86.6
145°	2.9	22.4	35.4	59.2	74.3
147.5°	2.9	20.2	33.2	52.0	63.5
150°	2.9	17.3	29.6	43.3	53.4
152.5°	2.9	14.4	26.7	34.6	43.3
155°	2.9	12.3	22.4	26.7	35.4
157.5°	2.9	10.1	18.8	19.5	26.0
160°	2.9	7.2	15.2	13.0	18.0
162.5°	3.6	5.8	11.5	7.2	10.8
165°	3.6	4.3	7.9	2.9	5.1
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	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)