

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: P232055

Luminaire Tested: **FVS4M-3-LD4-50-2LO-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-28)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4M-3-LD4-50-2LO-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
3FT LENGTH, 2-MODULE LED WITH P125 LENS
Light Source: (168) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

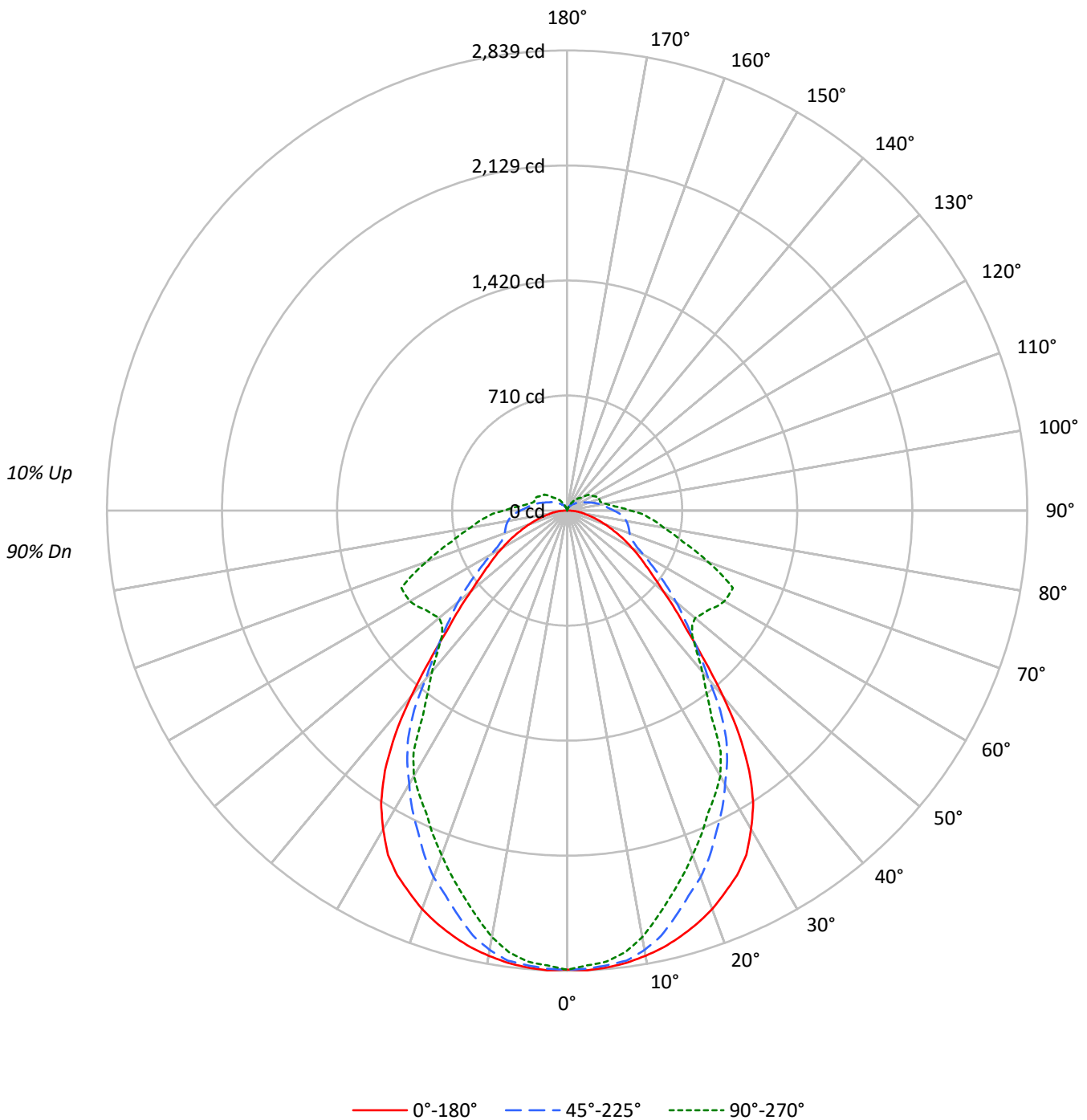
Lumens per Lamp: N/A
Luminaire Lumens: 6695.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.01 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

Input Watts (W): 56.8
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: P232055

CATALOG NUMBER: FVS4M-3-LD4-50-2LO-P125-UNV-EDC1

Luminous Intensity Polar Plot





TEST NUMBER: P232055

CATALOG NUMBER: FVS4M-3-LD4-50-2LO-P125-UNV-EDC1

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	89	91	88	85	86	83	80	81	78	76	74
2	96	88	81	75	93	85	79	74	80	75	71	76	71	68	71	68	65	62
3	88	78	70	64	85	76	68	62	71	65	60	67	62	58	64	59	56	53
4	81	70	61	55	78	68	60	54	64	57	52	61	55	50	57	53	49	46
5	75	63	54	48	73	61	53	47	58	51	46	55	49	44	52	47	43	41
6	70	57	49	42	67	56	48	42	53	46	41	50	44	40	48	43	39	36
7	65	52	44	38	63	51	43	37	49	42	37	46	40	36	44	39	35	33
8	61	48	40	34	59	47	39	34	45	38	33	43	37	32	41	36	32	30
9	57	44	36	31	55	43	36	31	41	35	30	40	34	29	38	33	29	27
10	54	41	33	28	52	40	33	28	39	32	28	37	31	27	36	30	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33446	33446	33446
5°	33354	32064	31462
10°	33068	30485	28981
15°	32662	28118	25961
20°	32130	25833	23338
25°	31388	23308	20952
30°	29844	20902	19141
35°	27031	18554	15768
40°	21901	15020	13298
45°	16443	12327	11380
50°	13184	10334	11041
55°	11200	8530	11829
60°	9840	7064	12972
65°	8512	6206	13787
70°	7336	6176	12061
75°	6146	6492	10400
80°	5128	6868	9341
85°	4374	7240	8746



TEST NUMBER: P232055

CATALOG NUMBER: FVS4M-3-LD4-50-2LO-P125-UNV-EDC1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.3	4.0
10°-20°	729.8	10.9
20°-30°	1021.9	15.3
30°-40°	1072.0	16.0
40°-50°	859.8	12.8
50°-60°	681.1	10.2
60°-70°	590.6	8.8
70°-80°	483.6	7.2
80°-90°	338.4	5.1
90°-100°	214.0	3.2
100°-110°	152.2	2.3
110°-120°	114.4	1.7
120°-130°	81.9	1.2
130°-140°	48.9	0.7
140°-150°	26.8	0.4
150°-160°	11.2	0.2
160°-170°	1.8	0.0
170°-180°	0.0	0.0
0°-30°	2018.0	30.1
0°-40°	3090.0	46.2
0°-60°	4631.0	69.2
0°-90°	6043.7	90.3
90°-120°	480.7	7.2
90°-150°	638.3	9.5
90°-180°	651.0	9.7
0°-180°	6695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2832	2832	2832	2832	2832	
5°	2829	2813	2816	2804	2793	269
15°	2718	2697	2589	2507	2465	766
25°	2481	2336	2180	2098	2058	1137
35°	1959	1835	1710	1614	1553	1203
45°	1048	1113	1085	1131	1090	834
55°	594	589	692	896	1067	539
65°	347	308	446	902	1128	347
75°	167	219	392	762	738	179
85°	56	129	340	488	507	55
90°	2	78	288	396	389	4
95°	1	68	246	313	296	1
105°	1	57	179	231	210	1
115°	1	45	121	189	202	1
125°	2	42	86	152	172	2
135°	2	36	59	98	110	1
145°	2	26	42	62	77	1
155°	3	14	26	33	38	1
165°	3	4	9	4	5	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P232055

CATALOG NUMBER: FVS4M-3-LD4-50-2LO-P125-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2832.1	2832.1	2832.1	2832.1	2832.1
2.5°	2839.3	2831.2	2829.4	2815.9	2808.7
5°	2829.4	2813.2	2815.9	2804.1	2793.3
7.5°	2814.1	2798.7	2800.5	2778.0	2748.2
10°	2788.8	2776.2	2752.7	2702.2	2672.4
12.5°	2759.0	2747.3	2685.9	2608.3	2568.6
15°	2717.5	2696.7	2589.3	2507.2	2464.8
17.5°	2670.6	2613.7	2491.0	2417.0	2365.5
20°	2616.4	2534.3	2407.0	2315.0	2262.6
22.5°	2548.7	2428.7	2302.3	2199.4	2163.3
25°	2481.0	2335.7	2180.5	2097.5	2057.8
27.5°	2394.4	2219.3	2073.1	2000.0	1976.5
30°	2269.8	2109.2	1948.5	1903.4	1889.9
32.5°	2136.3	1977.4	1836.6	1781.6	1763.5
35°	1959.4	1834.8	1710.3	1613.7	1553.2
37.5°	1743.7	1675.1	1549.6	1442.2	1409.7
40°	1497.3	1484.7	1358.3	1312.3	1296.9
42.5°	1254.5	1301.4	1213.0	1216.6	1184.1
45°	1047.8	1112.8	1084.8	1130.9	1090.2
47.5°	907.0	954.9	974.7	1048.7	1046.0
50°	772.6	817.7	877.3	990.1	1030.7
52.5°	674.2	699.5	781.6	943.1	1048.7
55°	593.9	589.3	692.2	896.2	1066.8
57.5°	528.0	498.2	610.1	869.1	1098.4
60°	463.0	414.3	542.4	866.4	1120.0
62.5°	404.3	349.3	483.8	878.2	1125.4
65°	346.6	307.8	445.8	902.5	1128.2
67.5°	296.0	276.2	423.3	917.9	1028.9
70°	250.0	250.0	409.7	901.6	925.1
72.5°	207.6	230.1	400.7	831.2	830.3
75°	167.0	219.3	391.7	761.7	738.3
77.5°	127.3	209.4	382.7	689.5	669.7
80°	102.9	187.7	370.0	611.9	604.7
82.5°	81.2	159.7	357.4	552.3	558.7
85°	56.0	129.1	340.3	488.3	507.2
87.5°	26.2	100.2	315.9	436.8	462.1
90°	1.8	77.6	287.9	396.2	389.0
92.5°	1.8	70.4	263.5	353.8	343.0
95°	0.9	67.7	245.5	313.2	296.0
97.5°	0.9	65.9	226.5	276.2	262.6
100°	0.9	63.2	212.1	250.0	241.9
102.5°	0.9	59.6	194.9	239.2	222.0
105°	0.9	56.9	178.7	231.0	210.3
107.5°	0.9	52.3	160.6	224.7	211.2
110°	0.9	49.6	145.3	212.1	210.3



TEST NUMBER: P232055

CATALOG NUMBER: FVS4M-3-LD4-50-2LO-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	46.9	132.7	198.6	210.3
115°	0.9	45.1	120.9	188.6	202.2
117.5°	0.9	44.2	111.9	185.0	190.4
120°	1.8	43.3	102.0	182.3	180.5
122.5°	1.8	43.3	93.9	168.8	175.1
125°	1.8	42.4	85.7	151.6	172.4
127.5°	1.8	40.6	78.5	136.3	155.2
130°	1.8	39.7	71.3	122.7	135.4
132.5°	1.8	37.9	65.0	110.1	120.0
135°	1.8	36.1	58.7	98.4	110.1
137.5°	1.8	33.4	54.2	87.5	102.9
140°	1.8	31.6	49.6	78.5	93.9
142.5°	1.8	28.9	45.1	69.5	84.8
145°	1.8	26.2	41.5	62.3	76.7
147.5°	2.7	23.5	37.9	56.0	65.0
150°	2.7	19.9	34.3	48.7	56.0
152.5°	2.7	17.1	30.7	41.5	46.9
155°	2.7	14.4	26.2	33.4	37.9
157.5°	2.7	11.7	21.7	25.3	29.8
160°	2.7	9.9	18.1	17.1	20.8
162.5°	2.7	7.2	13.5	9.9	12.6
165°	2.7	4.5	9.0	4.5	5.4
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)