

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: P232062

Luminaire Tested: **FVS4M-3-LD4-40-2HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232062
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-LD4-40-2HI-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
3FT LENGTH, 2-MODULE LED WITH P125 LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

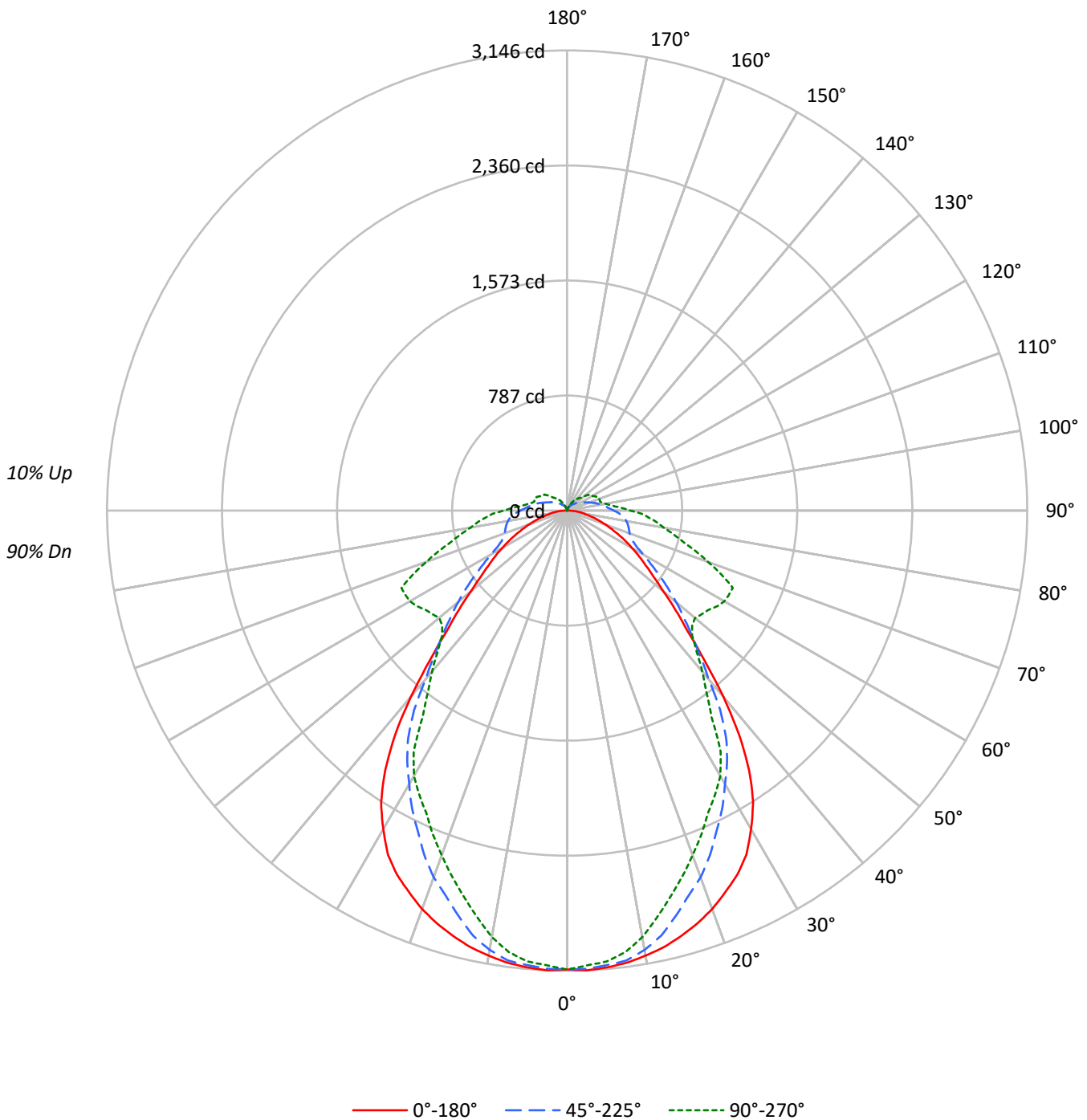
Lumens per Lamp: N/A
Luminaire Lumens: 7418.1 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.01 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

Input Watts (W): 71.7
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: P232062

CATALOG NUMBER: FVS4M-3-LD4-40-2HI-P125-UNV-EDC1

Luminous Intensity Polar Plot





TEST NUMBER: P232062

CATALOG NUMBER: FVS4M-3-LD4-40-2HI-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°	37058	37058	37058
5°	36957	35527	34860
10°	36639	33777	32110
15°	36190	31156	28765
20°	35600	28624	25859
25°	34778	25825	23214
30°	33068	23160	21208
35°	29951	20558	17471
40°	24267	16642	14735
45°	18219	13659	12609
50°	14608	11449	12234
55°	12409	9452	13106
60°	10903	7827	14374
65°	9430	6877	15275
70°	8129	6844	13363
75°	6808	7193	11523
80°	5682	7610	10349
85°	4843	8021	9691



TEST NUMBER: P232062

CATALOG NUMBER: FVS4M-3-LD4-40-2HI-P125-UNV-EDC1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.1	4.0
10°-20°	808.7	10.9
20°-30°	1132.3	15.3
30°-40°	1187.8	16.0
40°-50°	952.7	12.8
50°-60°	754.7	10.2
60°-70°	654.4	8.8
70°-80°	535.8	7.2
80°-90°	375.0	5.1
90°-100°	237.1	3.2
100°-110°	168.7	2.3
110°-120°	126.8	1.7
120°-130°	90.7	1.2
130°-140°	54.2	0.7
140°-150°	29.7	0.4
150°-160°	12.4	0.2
160°-170°	2.0	0.0
170°-180°	0.0	0.0
0°-30°	2236.0	30.1
0°-40°	3423.8	46.2
0°-60°	5131.2	69.2
0°-90°	6696.4	90.3
90°-120°	532.7	7.2
90°-150°	707.3	9.5
90°-180°	722.0	9.7
0°-180°	7418.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3138	3138	3138	3138	3138	
5°	3135	3117	3120	3107	3095	298
15°	3011	2988	2869	2778	2731	849
25°	2749	2588	2416	2324	2280	1260
35°	2171	2033	1895	1788	1721	1333
45°	1161	1233	1202	1253	1208	924
55°	658	653	767	993	1182	597
65°	384	341	494	1000	1250	384
75°	185	243	434	844	818	198
85°	62	143	377	541	562	61
90°	2	86	319	439	431	5
95°	1	75	272	347	328	1
105°	1	63	198	256	233	1
115°	1	50	134	209	224	1
125°	2	47	95	168	191	2
135°	2	40	65	109	122	2
145°	2	29	46	69	85	1
155°	3	16	29	37	42	1
165°	3	5	10	5	6	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P232062

CATALOG NUMBER: FVS4M-3-LD4-40-2HI-P125-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3138	3138	3138	3138	3138
2.5°	3146	3137	3135	3120	3112
5°	3135	3117	3120	3107	3095
7.5°	3118	3101	3103	3078	3045
10°	3090	3076	3050	2994	2961
12.5°	3057	3044	2976	2890	2846
15°	3011	2988	2869	2778	2731
17.5°	2959	2896	2760	2678	2621
20°	2899	2808	2667	2565	2507
22.5°	2824	2691	2551	2437	2397
25°	2749	2588	2416	2324	2280
27.5°	2653	2459	2297	2216	2190
30°	2515	2337	2159	2109	2094
32.5°	2367	2191	2035	1974	1954
35°	2171	2033	1895	1788	1721
37.5°	1932	1856	1717	1598	1562
40°	1659	1645	1505	1454	1437
42.5°	1390	1442	1344	1348	1312
45°	1161	1233	1202	1253	1208
47.5°	1005	1058	1080	1162	1159
50°	856	906	972	1097	1142
52.5°	747	775	866	1045	1162
55°	658	653	767	993	1182
57.5°	585	552	676	963	1217
60°	513	459	601	960	1241
62.5°	448	387	536	973	1247
65°	384	341	494	1000	1250
67.5°	328	306	469	1017	1140
70°	277	277	454	999	1025
72.5°	230	255	444	921	920
75°	185	243	434	844	818
77.5°	141	232	424	764	742
80°	114	208	410	678	670
82.5°	90	177	396	612	619
85°	62	143	377	541	562
87.5°	29	111	350	484	512
90°	2	86	319	439	431
92.5°	2	78	292	392	380
95°	1	75	272	347	328
97.5°	1	73	251	306	291
100°	1	70	235	277	268
102.5°	1	66	216	265	246
105°	1	63	198	256	233
107.5°	1	58	178	249	234
110°	1	55	161	235	233



TEST NUMBER: P232062

CATALOG NUMBER: FVS4M-3-LD4-40-2HI-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1	52	147	220	233
115°	1	50	134	209	224
117.5°	1	49	124	205	211
120°	2	48	113	202	200
122.5°	2	48	104	187	194
125°	2	47	95	168	191
127.5°	2	45	87	151	172
130°	2	44	79	136	150
132.5°	2	42	72	122	133
135°	2	40	65	109	122
137.5°	2	37	60	97	114
140°	2	35	55	87	104
142.5°	2	32	50	77	94
145°	2	29	46	69	85
147.5°	3	26	42	62	72
150°	3	22	38	54	62
152.5°	3	19	34	46	52
155°	3	16	29	37	42
157.5°	3	13	24	28	33
160°	3	11	20	19	23
162.5°	3	8	15	11	14
165°	3	5	10	5	6
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)