

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: P241331

Luminaire Tested: **FVS8M-2-LD4-40-2HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS8M-2-LD4-40-2HI-P125-UNV-EDC1
Description: FAILSAFE FVS8M LED FIXTURE
2FT LENGTH, 2-MODULE LED WITH P125 LENS
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

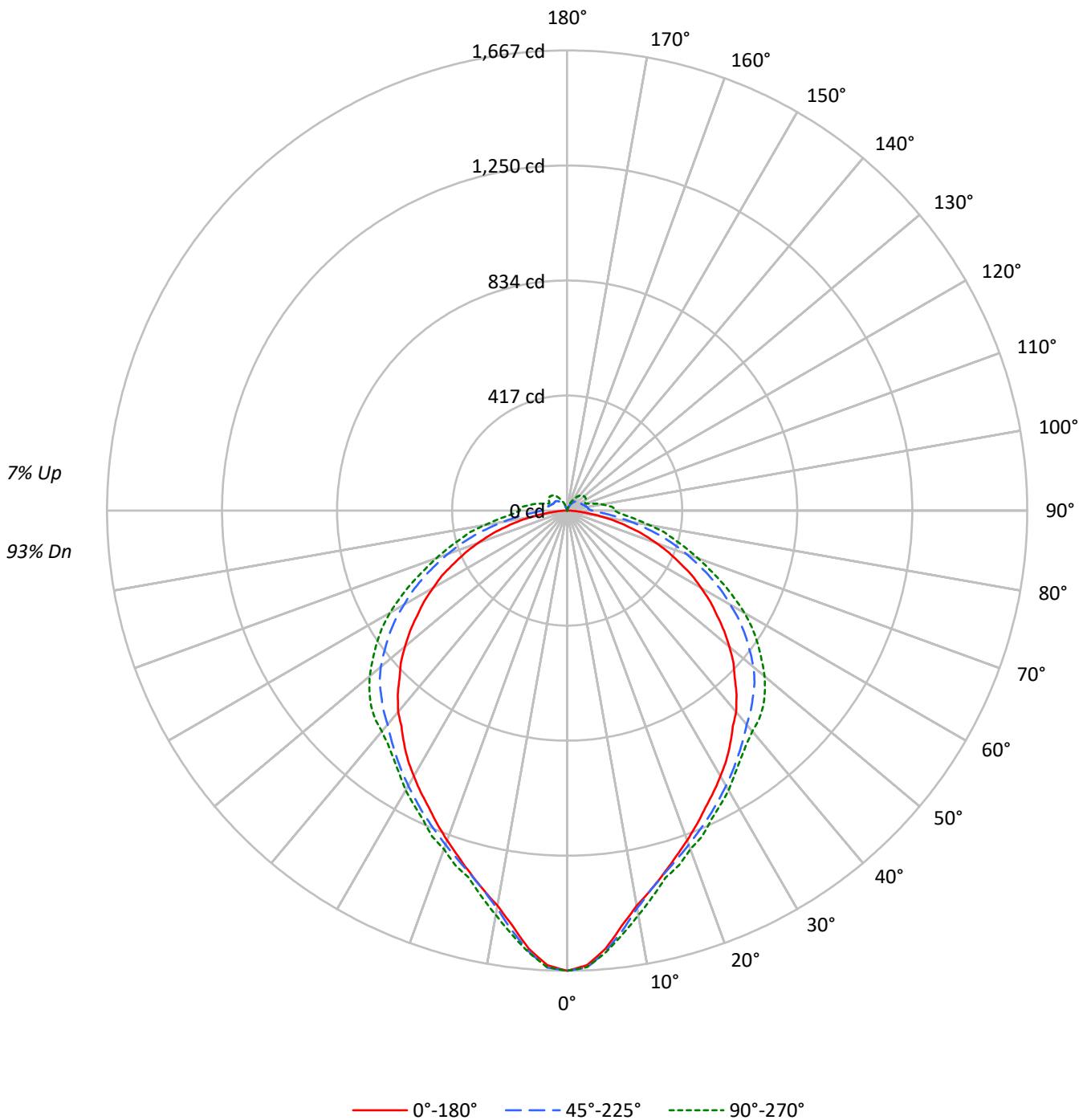
Lumens per Lamp: N/A
Luminaire Lumens: 4539.9 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.05 / 1.26
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 1.85' x H: 0.15')
CIE Type: Direct

Input Watts (W): 44.2
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	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	106	101	97	92	103	98	94	90	93	89	86	88	85	82	83	81	79	76
2	96	88	80	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	52
4	80	68	59	52	77	66	58	51	63	55	50	59	53	48	56	51	47	44
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	30
8	58	45	36	30	56	44	36	30	42	35	29	40	34	29	39	33	28	26
9	55	41	33	27	53	40	32	27	39	31	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	24	36	29	24	34	28	24	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14984	14984	14984
5°	14276	14188	14210
10°	13081	12856	13062
15°	12386	11975	12083
20°	11820	11425	11535
25°	11347	10996	11082
30°	11031	10626	10743
35°	10713	10308	10385
40°	10479	10058	10299
45°	10123	9958	10412
50°	9807	9804	10292
55°	9341	9445	10001
60°	8860	8944	9589
65°	8208	8352	8885
70°	7413	7596	8191
75°	6256	6682	7539
80°	4582	5501	6855
85°	2281	4232	6192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.4	3.3
10°-20°	385.9	8.5
20°-30°	561.6	12.4
30°-40°	673.7	14.8
40°-50°	726.7	16.0
50°-60°	688.4	15.2
60°-70°	548.7	12.1
70°-80°	351.7	7.7
80°-90°	156.3	3.4
90°-100°	82.5	1.8
100°-110°	62.8	1.4
110°-120°	46.8	1.0
120°-130°	42.5	0.9
130°-140°	33.4	0.7
140°-150°	20.3	0.4
150°-160°	8.4	0.2
160°-170°	1.8	0.0
170°-180°	0.0	0.0
0°-30°	1095.9	24.1
0°-40°	1769.6	39.0
0°-60°	3184.6	70.1
0°-90°	4241.3	93.4
90°-120°	192.1	4.2
90°-150°	288.4	6.4
90°-180°	299.0	6.6
0°-180°	4539.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1667	1667	1667	1667	1667	
5°	1593	1596	1602	1608	1606	147
15°	1359	1356	1361	1378	1377	383
25°	1186	1199	1220	1237	1235	548
35°	1030	1053	1081	1102	1096	645
45°	859	893	952	999	1004	665
55°	663	712	788	831	844	595
65°	451	502	574	602	620	448
75°	233	277	347	389	400	248
85°	42	81	142	191	215	54
90°	0	36	91	125	171	2
95°	0	33	77	112	162	0
105°	0	30	67	92	98	0
115°	0	26	57	67	71	0
125°	0	22	55	73	81	0
135°	0	18	48	68	77	0
145°	1	12	35	52	60	1
155°	1	5	19	30	34	0
165°	1	1	5	11	12	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1667	1667	1667	1667	1667	1667	1667	1667	1667	1667	1667
2.5°	1648	1648	1648	1648	1650	1649	1651	1652	1654	1655	1657
5°	1593	1593	1591	1592	1593	1596	1595	1599	1601	1604	1602
7.5°	1517	1521	1519	1520	1519	1521	1525	1526	1531	1534	1534
10°	1453	1453	1449	1450	1450	1452	1452	1455	1458	1463	1462
12.5°	1406	1406	1401	1402	1399	1400	1400	1401	1403	1406	1406
15°	1359	1355	1355	1357	1357	1356	1357	1357	1357	1359	1361
17.5°	1313	1313	1314	1313	1315	1314	1314	1317	1319	1319	1323
20°	1271	1272	1271	1274	1277	1277	1277	1280	1280	1284	1288
22.5°	1229	1230	1233	1232	1236	1236	1235	1241	1244	1248	1253
25°	1186	1187	1189	1193	1195	1199	1201	1204	1212	1214	1220
27.5°	1149	1148	1150	1158	1158	1161	1165	1172	1173	1182	1185
30°	1111	1111	1111	1120	1122	1126	1130	1136	1141	1146	1151
32.5°	1073	1069	1072	1079	1089	1089	1091	1101	1105	1111	1117
35°	1030	1031	1035	1039	1048	1053	1057	1063	1068	1073	1081
37.5°	986	990	994	999	1005	1011	1015	1023	1034	1039	1047
40°	952	950	953	957	964	970	977	986	996	1004	1012
42.5°	908	906	914	917	928	930	938	949	962	973	984
45°	859	863	868	877	884	893	900	911	928	942	952
47.5°	817	816	822	832	843	850	857	873	891	906	921
50°	767	770	776	787	801	805	811	831	848	867	881
52.5°	717	718	727	738	753	760	769	786	803	820	834
55°	663	666	678	688	704	712	722	739	757	774	788
57.5°	615	617	625	638	655	661	672	691	707	725	739
60°	560	564	572	588	601	607	619	637	653	670	683
62.5°	511	511	518	534	547	555	565	580	599	614	631
65°	451	457	467	478	493	502	509	525	541	558	574
67.5°	399	403	410	423	440	444	455	471	485	500	515
70°	343	346	355	368	382	387	397	412	427	444	460
72.5°	290	292	302	312	326	335	341	354	371	389	404
75°	233	237	245	256	270	277	285	299	315	331	347
77.5°	183	183	191	203	215	223	230	245	261	275	289
80°	128	133	139	150	163	172	176	190	206	220	236
82.5°	83	86	93	104	116	121	128	142	157	173	186
85°	42	46	53	63	75	81	87	102	114	128	142
87.5°	16	18	25	35	46	52	57	70	82	96	110
90°	0	4	11	20	31	36	42	54	65	78	91
92.5°	0	3	9	18	28	34	39	50	61	73	82
95°	0	3	9	18	28	33	38	49	60	70	77
97.5°	0	2	9	18	27	32	37	48	58	67	75
100°	0	2	8	17	26	31	37	47	55	64	73
102.5°	0	2	8	16	26	31	36	45	53	62	70
105°	0	2	7	16	25	30	34	43	52	60	67
107.5°	0	2	7	15	24	28	33	42	50	57	64
110°	0	2	7	14	23	28	32	41	48	55	61



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CATALOG NUMBER: FVS8M-2-LD4-40-2HI-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0	1	6	13	23	27	31	39	47	53	59
115°	0	1	6	13	22	26	30	38	45	52	57
117.5°	0	1	6	13	21	25	30	37	44	51	56
120°	0	1	5	12	20	24	29	37	44	50	55
122.5°	0	1	5	12	19	23	28	36	43	50	55
125°	0	1	5	11	19	22	27	35	43	49	55
127.5°	0	1	4	11	18	22	26	34	41	48	54
130°	0	1	4	10	17	21	25	32	40	47	53
132.5°	0	1	4	9	16	20	23	30	37	45	51
135°	0	1	3	8	15	18	22	29	35	42	48
137.5°	0	1	3	8	14	17	21	27	33	39	45
140°	0	0	2	7	12	15	19	25	31	37	42
142.5°	1	0	2	6	11	14	17	23	29	34	39
145°	1	0	1	5	9	12	14	20	26	31	35
147.5°	1	0	1	4	8	10	12	17	22	27	32
150°	1	0	1	3	6	8	10	14	19	24	28
152.5°	1	1	1	2	5	6	8	12	16	20	23
155°	1	1	1	1	3	5	6	9	13	16	19
157.5°	1	1	0	1	2	3	4	7	10	12	15
160°	1	1	0	1	2	2	3	5	7	9	11
162.5°	1	1	0	1	1	1	2	3	5	6	8
165°	1	1	1	0	1	1	1	2	3	4	5
167.5°	1	1	1	0	0	0	0	1	1	2	3
170°	1	1	1	0	0	0	0	0	1	1	1
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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CATALOG NUMBER: FVS8M-2-LD4-40-2HI-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1667	1667	1667	1667	1667	1667	1667	1667	1667	1667
2.5°	1659	1658	1658	1657	1658	1657	1657	1658	1657	1656
5°	1607	1608	1609	1607	1608	1607	1607	1606	1607	1606
7.5°	1536	1539	1541	1540	1543	1542	1544	1546	1547	1547
10°	1466	1468	1471	1475	1477	1479	1482	1486	1487	1488
12.5°	1410	1414	1415	1417	1419	1418	1425	1428	1433	1432
15°	1363	1369	1371	1377	1378	1380	1386	1381	1380	1377
17.5°	1326	1332	1333	1333	1334	1337	1343	1344	1346	1347
20°	1290	1294	1298	1301	1303	1304	1307	1303	1304	1305
22.5°	1255	1259	1265	1268	1272	1275	1275	1274	1272	1278
25°	1226	1229	1235	1235	1237	1240	1236	1239	1237	1235
27.5°	1191	1199	1201	1203	1205	1204	1204	1203	1203	1202
30°	1159	1162	1168	1169	1171	1173	1173	1175	1169	1170
32.5°	1126	1130	1137	1139	1140	1140	1137	1131	1132	1131
35°	1087	1096	1103	1103	1102	1103	1101	1100	1097	1096
37.5°	1051	1059	1067	1070	1069	1071	1068	1066	1066	1067
40°	1021	1027	1035	1041	1041	1043	1043	1043	1045	1044
42.5°	991	1002	1012	1022	1025	1025	1024	1025	1027	1028
45°	966	978	988	996	999	999	1001	1004	1003	1004
47.5°	935	942	953	959	961	964	967	967	969	972
50°	892	901	910	920	923	923	928	931	932	934
52.5°	846	859	867	875	877	879	882	884	885	888
55°	798	812	818	827	831	836	833	841	842	844
57.5°	752	762	773	778	778	782	789	791	795	796
60°	695	707	717	719	723	724	729	734	739	742
62.5°	639	650	659	662	664	666	672	677	682	681
65°	583	594	601	602	602	608	612	613	620	620
67.5°	528	539	543	549	550	549	552	557	562	558
70°	472	481	488	496	494	494	496	500	502	505
72.5°	415	425	433	439	441	444	445	447	448	450
75°	360	369	380	388	389	392	395	397	397	400
77.5°	304	318	326	336	336	340	349	351	357	359
80°	250	262	276	285	290	295	296	296	299	302
82.5°	201	213	229	236	239	240	248	251	255	257
85°	158	174	181	188	191	193	200	205	212	215
87.5°	126	133	140	147	150	153	162	169	181	187
90°	100	106	113	122	125	130	139	149	163	171
92.5°	89	96	103	112	117	121	131	144	162	171
95°	85	93	101	108	112	117	128	143	157	162
97.5°	84	91	97	105	109	114	125	134	140	143
100°	80	87	94	101	106	109	116	123	127	129
102.5°	77	83	90	96	99	102	108	113	115	115
105°	74	79	85	89	92	94	97	98	98	98
107.5°	70	75	79	82	83	84	84	84	83	82
110°	66	71	73	74	74	74	74	74	74	73



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	63	66	68	69	68	69	69	70	70	70
115°	61	64	65	66	67	67	69	70	71	71
117.5°	60	63	65	68	68	69	71	73	74	74
120°	60	63	67	70	71	72	74	76	77	77
122.5°	60	64	68	71	73	74	76	78	79	80
125°	60	64	69	72	73	75	77	79	80	81
127.5°	59	64	68	72	73	74	77	79	80	81
130°	58	63	67	70	72	73	76	78	79	80
132.5°	56	61	65	69	70	72	75	77	78	79
135°	54	59	63	67	68	70	73	75	77	77
137.5°	51	56	60	64	66	67	70	73	74	75
140°	48	52	57	60	62	64	66	69	70	71
142.5°	44	48	52	56	58	59	62	64	66	66
145°	40	43	47	51	52	53	56	58	59	60
147.5°	36	39	43	45	46	48	50	52	52	53
150°	31	34	37	39	41	42	44	45	46	46
152.5°	27	29	32	34	35	36	37	39	39	40
155°	22	25	27	29	30	31	32	33	33	34
157.5°	18	20	22	24	25	25	27	27	28	27
160°	14	16	18	19	20	20	21	22	22	22
162.5°	10	12	13	15	15	15	16	17	17	17
165°	7	8	9	10	11	11	11	12	12	12
167.5°	4	4	5	6	6	7	7	7	8	8
170°	1	2	2	3	3	3	3	3	4	4
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)