

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: P241343

Luminaire Tested: **FVS8M-2-LD4-40-3HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P241343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-13)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FVS8M-2-LD4-40-3HI-P125-UNV-EDC1  
Description: FAILSAFE FVS8M LED FIXTURE  
2FT LENGTH, 3-MODULE LED WITH P125 LENS  
Light Source: (126) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

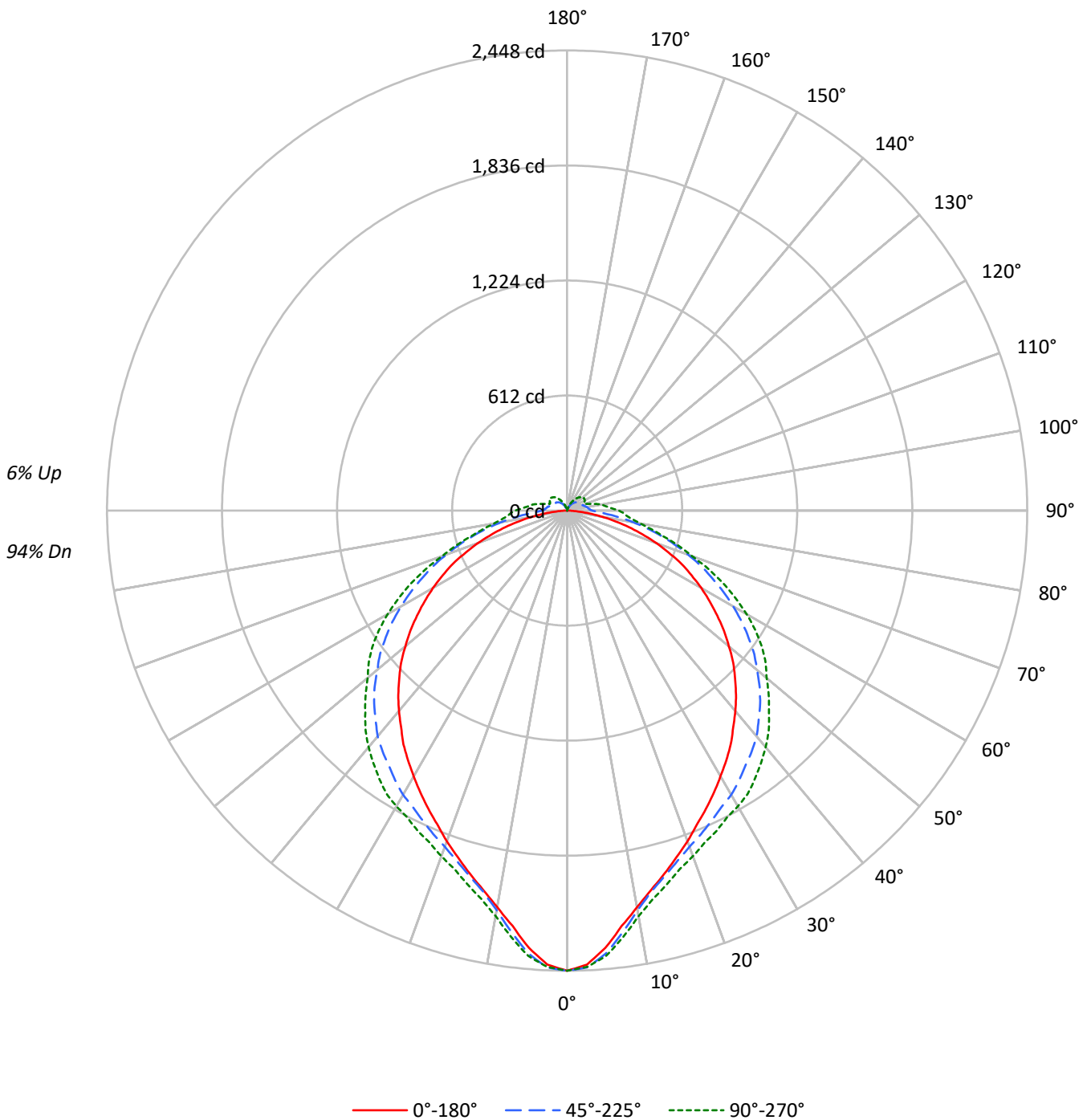
Lumens per Lamp: N/A  
Luminaire Lumens: 6749.0 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.11 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 1.85' x H: 0.15')  
CIE Type: Direct

Input Watts (W): 66.5  
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	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	93	103	98	94	91	93	90	87	88	85	83	84	81	79	77				
2	96	88	81	75	93	85	79	73	81	75	71	77	72	68	73	69	66	63				
3	88	77	68	62	85	75	67	61	71	64	59	67	62	57	64	59	55	53				
4	80	68	59	52	77	66	58	51	63	56	50	60	54	49	57	52	47	45				
5	74	61	51	45	71	59	50	44	56	49	43	54	47	42	51	45	41	39				
6	68	54	45	39	66	53	45	38	51	43	38	48	42	37	46	40	36	34				
7	63	49	40	34	61	48	40	34	46	39	33	44	37	32	42	36	32	30				
8	59	45	36	30	57	44	36	30	42	35	30	40	34	29	39	33	28	26				
9	55	41	33	27	53	40	32	27	39	32	27	37	31	26	36	30	26	24				
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	33	27	23	22				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	22005	22005	22005
5°	20925	20954	21041
10°	19284	18977	19224
15°	18228	17693	18041
20°	17409	16881	17298
25°	16733	16395	16870
30°	16203	16119	16675
35°	15788	15772	16506
40°	15323	15584	16208
45°	14885	15188	15753
50°	14371	14668	15261
55°	13737	14120	15002
60°	13037	13357	14254
65°	12230	12398	13126
70°	10892	11295	11451
75°	9102	9918	10008
80°	6730	8297	8943
85°	3259	6378	9130



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.8	3.2
10°-20°	570.2	8.4
20°-30°	839.9	12.4
30°-40°	1031.2	15.3
40°-50°	1096.9	16.3
50°-60°	1026.4	15.2
60°-70°	813.9	12.1
70°-80°	508.1	7.5
80°-90°	228.1	3.4
90°-100°	122.4	1.8
100°-110°	89.1	1.3
110°-120°	65.2	1.0
120°-130°	57.6	0.9
130°-140°	43.3	0.6
140°-150°	25.5	0.4
150°-160°	10.3	0.2
160°-170°	2.0	0.0
170°-180°	0.0	0.0
0°-30°	1628.9	24.1
0°-40°	2660.2	39.4
0°-60°	4783.5	70.9
0°-90°	6333.6	93.8
90°-120°	276.7	4.1
90°-150°	403.1	6.0
90°-180°	415.0	6.1
0°-180°	6749.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2448	2448	2448	2448	2448	
5°	2335	2347	2366	2371	2378	216
15°	2000	2002	2011	2032	2056	563
25°	1749	1771	1819	1867	1880	807
35°	1518	1571	1654	1738	1742	948
45°	1263	1340	1452	1505	1519	975
55°	975	1062	1178	1237	1266	872
65°	672	742	852	903	916	659
75°	339	410	515	553	531	360
85°	60	125	214	267	317	77
90°	1	59	133	196	276	3
95°	0	52	116	168	219	0
105°	0	42	95	128	138	0
115°	0	36	78	93	100	0
125°	0	31	73	100	111	0
135°	1	24	62	88	101	1
145°	1	15	45	65	74	1
155°	1	5	23	37	41	0
165°	1	1	5	11	13	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P241343

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2448	2448	2448	2448	2448	2448	2448	2448	2448	2448	2448
2.5°	2417	2420	2421	2422	2422	2425	2425	2427	2430	2432	2433
5°	2335	2341	2336	2341	2345	2347	2350	2352	2358	2364	2366
7.5°	2228	2230	2233	2236	2240	2239	2241	2248	2255	2264	2263
10°	2142	2142	2142	2142	2142	2145	2146	2149	2154	2163	2158
12.5°	2066	2068	2071	2070	2068	2067	2064	2068	2069	2075	2073
15°	2000	1997	2000	2002	2000	2002	2001	2004	2003	2005	2011
17.5°	1933	1940	1942	1937	1939	1941	1942	1941	1941	1949	1953
20°	1872	1875	1875	1874	1878	1879	1884	1884	1889	1899	1903
22.5°	1806	1812	1816	1815	1826	1826	1827	1831	1845	1849	1862
25°	1749	1755	1757	1761	1769	1771	1771	1788	1793	1805	1819
27.5°	1691	1695	1697	1704	1717	1717	1722	1739	1750	1764	1778
30°	1632	1641	1641	1652	1663	1666	1678	1693	1711	1723	1746
32.5°	1575	1579	1583	1600	1612	1621	1630	1649	1664	1685	1702
35°	1518	1523	1527	1545	1556	1571	1582	1606	1621	1641	1654
37.5°	1451	1459	1468	1482	1504	1516	1526	1555	1572	1590	1614
40°	1392	1400	1410	1425	1449	1458	1471	1495	1523	1544	1568
42.5°	1330	1339	1349	1367	1386	1398	1413	1438	1466	1492	1508
45°	1263	1271	1284	1301	1325	1340	1352	1382	1404	1431	1452
47.5°	1199	1203	1217	1240	1261	1279	1291	1317	1346	1366	1389
50°	1124	1129	1144	1167	1195	1212	1219	1251	1275	1301	1318
52.5°	1051	1059	1077	1098	1124	1139	1152	1175	1206	1229	1255
55°	975	985	1001	1024	1047	1062	1077	1103	1131	1158	1178
57.5°	899	909	925	948	971	983	998	1025	1057	1083	1102
60°	824	831	848	868	891	906	917	945	975	998	1020
62.5°	746	753	767	786	812	825	835	864	892	914	938
65°	672	672	689	705	727	742	757	782	806	830	852
67.5°	583	592	604	622	647	660	675	699	721	750	771
70°	504	508	522	542	562	575	590	612	637	663	684
72.5°	419	427	439	462	478	491	505	528	552	578	599
75°	339	346	358	376	397	410	421	445	468	497	515
77.5°	263	266	279	296	322	329	342	364	390	413	435
80°	188	194	204	220	243	254	265	289	311	336	356
82.5°	118	127	135	156	174	183	196	217	242	263	281
85°	60	67	79	94	114	125	134	157	178	198	214
87.5°	23	28	38	54	72	81	92	111	131	147	163
90°	1	7	18	33	50	59	68	87	104	119	133
92.5°	0	5	15	30	46	54	63	79	93	107	121
95°	0	4	14	28	43	52	60	75	89	102	116
97.5°	0	4	13	27	42	50	57	71	84	98	111
100°	0	4	13	26	40	47	54	67	81	94	106
102.5°	0	3	12	24	38	45	51	64	77	89	101
105°	0	3	11	23	36	42	49	62	74	85	95
107.5°	0	3	11	22	34	41	47	59	71	81	90
110°	0	2	10	21	33	39	45	57	68	77	86



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0	2	9	20	31	37	43	55	65	74	81
115°	0	2	9	19	30	36	42	53	63	71	78
117.5°	0	2	8	18	29	35	40	51	61	69	76
120°	0	2	8	17	28	34	39	50	59	68	75
122.5°	0	1	7	16	27	32	38	48	58	67	74
125°	0	1	7	15	26	31	37	47	57	66	73
127.5°	0	1	6	14	24	29	35	45	55	64	71
130°	0	1	5	13	23	28	33	43	52	61	68
132.5°	1	1	5	12	21	26	31	40	49	58	65
135°	1	1	4	11	19	24	28	38	46	55	62
137.5°	1	1	4	10	18	22	26	35	43	51	58
140°	1	1	3	9	16	20	24	32	40	47	54
142.5°	1	1	2	7	14	17	21	29	36	43	49
145°	1	1	2	6	12	15	18	25	32	38	45
147.5°	1	1	1	5	9	12	15	22	28	34	40
150°	1	1	1	3	7	10	12	18	23	29	34
152.5°	1	1	1	2	6	7	10	14	19	24	29
155°	1	1	1	2	4	5	7	11	15	19	23
157.5°	1	1	1	1	3	4	5	8	11	14	18
160°	1	1	1	1	2	2	3	5	8	10	13
162.5°	1	1	1	1	1	1	2	3	5	7	9
165°	1	1	1	1	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	0	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



TEST NUMBER: P241343

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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2448	2448	2448	2448	2448	2448	2448	2448	2448	2448
2.5°	2434	2433	2434	2433	2433	2432	2433	2432	2430	2430
5°	2366	2373	2374	2376	2371	2374	2374	2374	2374	2378
7.5°	2269	2279	2279	2279	2284	2285	2288	2288	2287	2287
10°	2166	2174	2177	2178	2184	2184	2189	2187	2190	2190
12.5°	2074	2078	2089	2099	2098	2103	2108	2112	2109	2115
15°	2013	2020	2025	2028	2032	2038	2043	2049	2051	2056
17.5°	1953	1963	1972	1982	1987	1989	1992	1995	1998	1998
20°	1913	1921	1928	1932	1937	1942	1943	1949	1951	1957
22.5°	1872	1878	1887	1897	1900	1904	1906	1909	1914	1912
25°	1832	1843	1855	1860	1867	1873	1877	1883	1885	1880
27.5°	1796	1803	1826	1837	1842	1842	1842	1848	1847	1841
30°	1756	1776	1792	1797	1801	1806	1812	1815	1813	1816
32.5°	1719	1733	1754	1768	1772	1777	1780	1785	1787	1788
35°	1677	1698	1724	1731	1738	1745	1747	1744	1748	1742
37.5°	1634	1663	1669	1687	1690	1690	1691	1693	1695	1693
40°	1588	1598	1620	1626	1628	1631	1637	1638	1639	1643
42.5°	1529	1546	1556	1576	1577	1577	1577	1580	1585	1588
45°	1463	1482	1496	1506	1505	1510	1515	1515	1518	1519
47.5°	1405	1414	1422	1432	1440	1440	1443	1447	1451	1455
50°	1333	1349	1358	1368	1366	1370	1380	1385	1383	1385
52.5°	1267	1279	1294	1300	1307	1312	1313	1321	1327	1331
55°	1197	1206	1221	1237	1237	1239	1251	1258	1266	1266
57.5°	1120	1135	1152	1157	1165	1174	1183	1186	1189	1188
60°	1035	1056	1072	1083	1087	1091	1091	1102	1103	1103
62.5°	957	975	987	991	992	998	1000	1004	1002	1010
65°	872	888	896	900	903	902	905	909	917	916
67.5°	792	798	806	812	812	817	820	825	816	815
70°	704	717	721	732	728	728	720	713	704	706
72.5°	618	629	641	637	637	634	628	622	616	620
75°	532	547	554	553	553	551	544	540	536	531
77.5°	454	462	471	475	476	475	468	461	460	458
80°	370	380	389	396	397	397	395	395	392	394
82.5°	293	304	317	325	327	332	334	337	343	348
85°	225	241	253	263	267	270	281	294	308	317
87.5°	178	192	206	217	223	231	244	263	285	300
90°	148	162	177	190	196	203	219	238	264	276
92.5°	134	149	161	172	178	184	199	215	234	242
95°	129	140	150	162	168	175	187	200	212	219
97.5°	122	133	144	154	160	165	174	186	196	200
100°	117	127	136	145	150	154	165	176	182	185
102.5°	111	120	128	136	140	144	153	159	161	161
105°	104	113	120	127	128	131	136	138	138	138
107.5°	98	105	111	115	116	117	118	118	116	116
110°	93	98	102	104	103	104	104	103	103	103





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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	88	92	94	96	96	96	96	98	98	98
115°	84	88	91	93	93	94	96	99	100	100
117.5°	82	87	90	93	95	96	100	102	104	104
120°	81	87	92	96	98	100	103	106	108	108
122.5°	81	87	93	97	100	101	105	108	110	110
125°	80	87	93	98	100	102	105	108	110	111
127.5°	78	85	91	96	98	101	104	107	109	110
130°	75	82	88	93	96	98	102	105	107	107
132.5°	72	79	84	90	93	95	99	102	104	104
135°	69	75	80	86	88	91	95	98	100	101
137.5°	65	71	76	81	84	86	90	93	95	96
140°	60	66	71	76	79	81	84	87	89	89
142.5°	55	61	66	70	72	74	77	80	81	82
145°	50	55	60	64	65	67	70	72	74	74
147.5°	44	49	53	56	58	59	62	64	65	66
150°	38	43	46	49	51	52	54	56	57	58
152.5°	33	36	40	42	44	45	47	48	49	49
155°	27	30	33	35	37	37	39	40	41	41
157.5°	21	24	27	29	30	31	32	33	33	34
160°	15	18	21	22	23	24	25	25	26	26
162.5°	11	13	15	16	17	17	18	19	19	19
165°	7	8	10	11	11	12	12	13	13	13
167.5°	3	4	5	6	6	7	7	7	8	7
170°	1	1	2	2	2	2	3	3	3	3
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)