

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: P231918

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4M-2-LD4-40-2HI-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
2FT LENGTH, 2-MODULE LED WITH P125 LENS
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

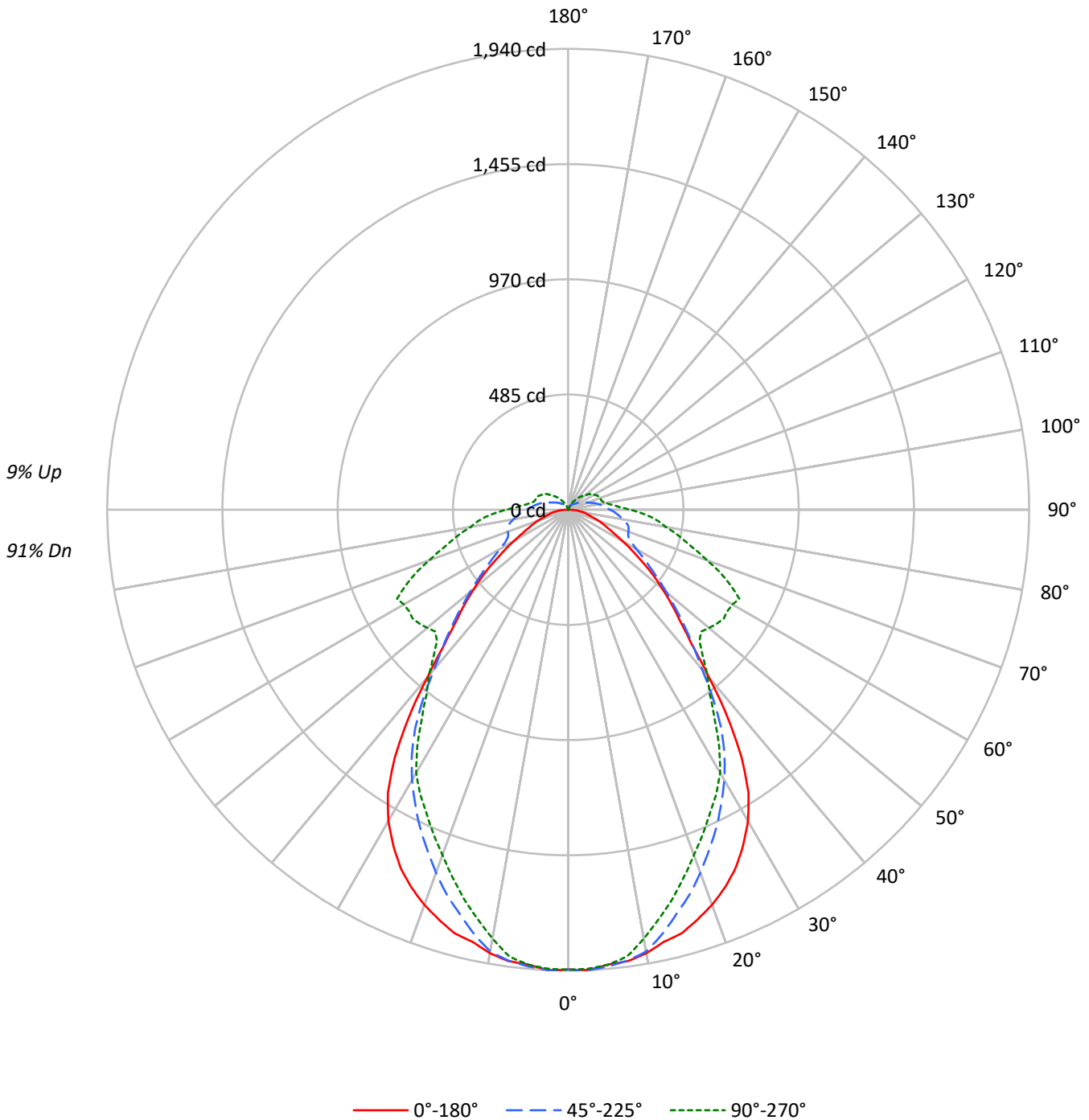
Lumens per Lamp: N/A
Luminaire Lumens: 4434.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.01 / 1.1
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 1.92' x H: 0.19')
CIE Type: Direct

Input Watts (W): 44.8
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: P231918

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

Luminous Intensity Polar Plot





TEST NUMBER: P231918

CATALOG NUMBER: FVS4M-2-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	91
1	106	101	96	92	102	97	93	90	91	88	85	86	83	81	81	79	77	74
2	97	88	81	76	93	86	79	74	81	75	71	76	72	68	72	68	65	62
3	89	78	70	64	85	76	69	63	72	66	60	68	63	58	64	60	56	54
4	82	70	62	55	79	68	60	54	64	58	52	61	55	51	58	53	49	47
5	76	63	55	48	73	62	54	48	58	51	46	55	50	45	53	48	44	41
6	70	57	49	43	68	56	48	42	53	46	41	51	45	40	48	43	39	37
7	65	53	44	38	63	51	43	38	49	42	37	47	41	36	45	39	35	33
8	61	48	40	35	59	47	40	34	45	38	33	43	37	33	41	36	32	30
9	57	45	37	31	56	44	36	31	42	35	31	40	34	30	39	33	29	27
10	54	41	34	29	52	41	33	29	39	32	28	37	32	27	36	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34792	34792	34792
5°	34378	33376	32960
10°	34012	31712	30249
15°	33468	28954	27184
20°	32686	26362	24283
25°	31594	23793	21846
30°	29718	21221	19712
35°	26117	18311	16592
40°	19967	14517	14215
45°	15464	11776	12406
50°	12920	9472	12617
55°	10419	7701	13482
60°	8114	6395	14065
65°	6538	5806	14040
70°	5632	6022	12340
75°	4629	6402	10889
80°	4327	6376	9778
85°	3602	6397	9184



TEST NUMBER: P231918

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.4	4.1
10°-20°	497.1	11.2
20°-30°	690.1	15.6
30°-40°	708.9	16.0
40°-50°	562.4	12.7
50°-60°	443.2	10.0
60°-70°	389.2	8.8
70°-80°	323.2	7.3
80°-90°	219.9	5.0
90°-100°	136.6	3.1
100°-110°	98.9	2.2
110°-120°	74.8	1.7
120°-130°	53.1	1.2
130°-140°	31.2	0.7
140°-150°	16.5	0.4
150°-160°	6.0	0.1
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	1369.6	30.9
0°-40°	2078.5	46.9
0°-60°	3084.1	69.6
0°-90°	4016.4	90.6
90°-120°	310.3	7.0
90°-150°	411.0	9.3
90°-180°	418.0	9.4
0°-180°	4434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1936	1936	1936	1936	1936	
5°	1922	1925	1930	1924	1923	183
15°	1846	1839	1762	1706	1696	519
25°	1666	1567	1476	1427	1410	763
35°	1272	1198	1123	1078	1074	779
45°	668	683	692	791	781	528
55°	379	333	419	621	799	342
65°	186	186	281	635	755	189
75°	91	147	262	519	508	100
85°	37	74	206	330	350	35
90°	0	45	176	265	260	2
95°	0	40	152	203	197	0
105°	0	36	109	154	145	0
115°	0	31	71	127	138	0
125°	0	27	50	102	116	0
135°	0	21	34	64	80	0
145°	0	15	26	39	48	0
155°	1	6	15	18	21	0
165°	1	1	2	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P231918

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1936	1936	1936	1936	1936
2.5°	1940	1939	1940	1935	1934
5°	1922	1925	1930	1924	1923
7.5°	1917	1918	1915	1904	1897
10°	1896	1898	1889	1850	1833
12.5°	1863	1866	1830	1786	1764
15°	1846	1839	1762	1706	1696
17.5°	1809	1785	1699	1636	1621
20°	1770	1720	1626	1570	1547
22.5°	1722	1639	1550	1504	1480
25°	1666	1567	1476	1427	1410
27.5°	1594	1486	1395	1354	1349
30°	1513	1402	1314	1280	1279
32.5°	1412	1303	1225	1198	1182
35°	1272	1198	1123	1078	1074
37.5°	1103	1069	1000	981	978
40°	921	934	875	906	911
42.5°	770	798	778	850	839
45°	668	683	692	791	781
47.5°	592	572	610	723	759
50°	516	485	538	676	774
52.5°	449	401	475	645	788
55°	379	333	419	621	799
57.5°	316	278	372	603	794
60°	264	237	330	597	798
62.5°	218	206	300	604	812
65°	186	186	281	635	755
67.5°	159	173	273	648	692
70°	136	165	270	617	622
72.5°	110	159	267	561	561
75°	91	147	262	519	508
77.5°	78	129	249	475	464
80°	65	111	234	424	416
82.5°	50	92	219	376	385
85°	37	74	206	330	350
87.5°	15	58	192	297	304
90°	0	45	176	265	260
92.5°	0	41	162	230	221
95°	0	40	152	203	197
97.5°	0	39	142	180	176
100°	0	38	131	166	163
102.5°	0	37	122	159	151
105°	0	36	109	154	145
107.5°	0	35	97	150	144
110°	0	34	87	142	144



TEST NUMBER: P231918

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	32	79	134	142
115°	0	31	71	127	138
117.5°	0	30	65	125	132
120°	0	29	60	122	126
122.5°	0	28	55	113	121
125°	0	27	50	102	116
127.5°	0	26	45	92	106
130°	0	25	41	81	95
132.5°	0	23	37	72	87
135°	0	21	34	64	80
137.5°	0	20	32	56	72
140°	0	18	29	50	64
142.5°	0	16	28	44	56
145°	0	15	26	39	48
147.5°	1	13	24	34	41
150°	1	11	21	28	34
152.5°	1	9	18	23	28
155°	1	6	15	18	21
157.5°	1	4	11	13	14
160°	1	2	8	8	8
162.5°	1	1	5	4	4
165°	1	1	2	0	0
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)