

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: P231919

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231919
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-LD4-50-2HI-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
2FT LENGTH, 2-MODULE LED WITH P125 LENS
Light Source: (84) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

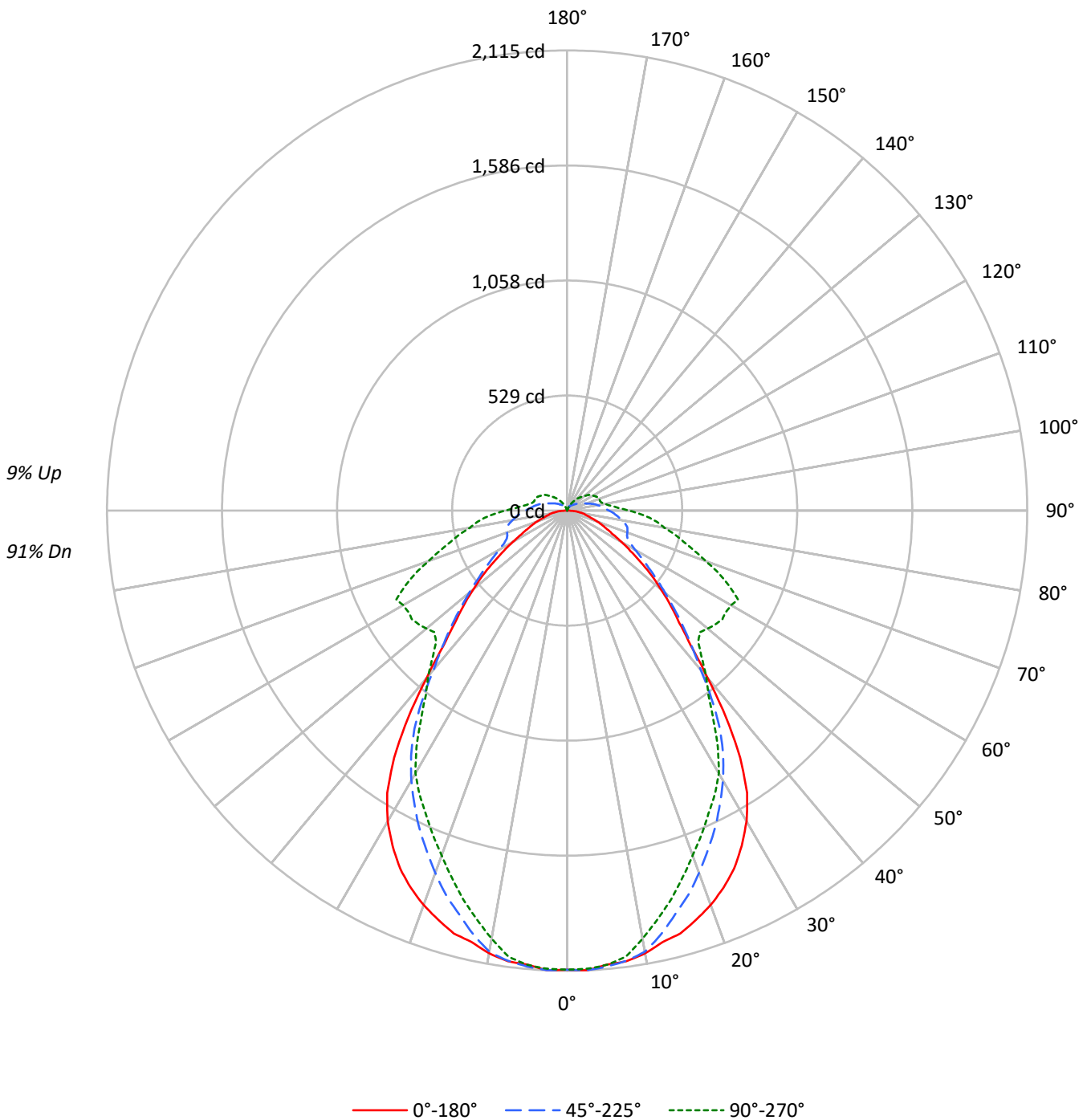
Lumens per Lamp: N/A
Luminaire Lumens: 4833.0 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.01 / 1.1
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 1.92' x H: 0.19')
CIE Type: Direct

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: P231919

CATALOG NUMBER: FVS4M-2-LD4-50-2HI-P125-UNV-EDC1

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	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°	37923	37923	37923
5°	37471	36380	35925
10°	37072	34566	32970
15°	36479	31558	29630
20°	35628	28734	26468
25°	34436	25934	23813
30°	32391	23130	21486
35°	28468	19957	18084
40°	21764	15822	15494
45°	16856	12836	13522
50°	14082	10324	13752
55°	11356	8394	14695
60°	8845	6971	15331
65°	7125	6328	15303
70°	6137	6564	13451
75°	5046	6979	11869
80°	4713	6950	10658
85°	3923	6971	10011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.8	4.1
10°-20°	541.8	11.2
20°-30°	752.2	15.6
30°-40°	772.7	16.0
40°-50°	613.0	12.7
50°-60°	483.1	10.0
60°-70°	424.2	8.8
70°-80°	352.3	7.3
80°-90°	239.7	5.0
90°-100°	148.9	3.1
100°-110°	107.8	2.2
110°-120°	81.6	1.7
120°-130°	57.9	1.2
130°-140°	34.0	0.7
140°-150°	17.9	0.4
150°-160°	6.5	0.1
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	1492.8	30.9
0°-40°	2265.5	46.9
0°-60°	3361.6	69.6
0°-90°	4377.8	90.6
90°-120°	338.2	7.0
90°-150°	448.0	9.3
90°-180°	455.0	9.4
0°-180°	4833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2110	2110	2110	2110	2110	
5°	2095	2098	2104	2097	2096	199
15°	2012	2004	1920	1860	1849	566
25°	1816	1708	1609	1555	1537	832
35°	1386	1306	1224	1175	1171	849
45°	728	744	754	862	851	576
55°	413	363	457	677	871	373
65°	203	203	306	692	823	206
75°	99	160	286	566	554	109
85°	40	81	224	360	382	38
90°	0	49	192	289	283	2
95°	0	44	166	221	215	0
105°	0	39	119	168	158	0
115°	0	34	77	138	150	0
125°	0	29	54	111	126	0
135°	0	23	37	70	87	0
145°	0	16	28	42	52	0
155°	1	6	16	20	23	1
165°	1	1	2	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P231919

CATALOG NUMBER: FVS4M-2-LD4-50-2HI-P125-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2110.2	2110.2	2110.2	2110.2	2110.2
2.5°	2114.6	2113.5	2114.6	2109.1	2108.0
5°	2094.9	2098.2	2103.7	2097.1	2096.0
7.5°	2089.5	2090.6	2087.3	2075.3	2067.7
10°	2066.6	2068.8	2059.0	2016.5	1997.9
12.5°	2030.6	2033.9	1994.7	1946.7	1922.7
15°	2012.1	2004.5	1920.5	1859.5	1848.6
17.5°	1971.8	1945.6	1851.9	1783.2	1766.9
20°	1929.3	1874.8	1772.3	1711.3	1686.2
22.5°	1876.9	1786.5	1689.5	1639.3	1613.2
25°	1815.9	1708.0	1608.8	1555.4	1536.9
27.5°	1737.4	1619.7	1520.5	1475.8	1470.4
30°	1649.1	1528.2	1432.2	1395.2	1394.1
32.5°	1539.1	1420.2	1335.2	1305.8	1288.4
35°	1386.5	1305.8	1224.0	1175.0	1170.6
37.5°	1202.2	1165.2	1090.0	1069.3	1066.0
40°	1003.9	1018.0	953.7	987.5	993.0
42.5°	839.3	869.8	848.0	926.5	914.5
45°	728.1	744.5	754.3	862.2	851.3
47.5°	645.3	623.5	664.9	788.1	827.3
50°	562.4	528.6	586.4	736.8	843.6
52.5°	489.4	437.1	517.7	703.0	858.9
55°	413.1	363.0	456.7	676.9	870.9
57.5°	344.4	303.0	405.5	657.3	865.4
60°	287.8	258.3	359.7	650.7	869.8
62.5°	237.6	224.5	327.0	658.3	885.1
65°	202.7	202.7	306.3	692.1	822.9
67.5°	173.3	188.6	297.6	706.3	754.3
70°	148.2	179.8	294.3	672.5	678.0
72.5°	119.9	173.3	291.0	611.5	611.5
75°	99.2	160.2	285.6	565.7	553.7
77.5°	85.0	140.6	271.4	517.7	505.8
80°	70.8	121.0	255.1	462.2	453.4
82.5°	54.5	100.3	238.7	409.8	419.6
85°	40.3	80.7	224.5	359.7	381.5
87.5°	16.3	63.2	209.3	323.7	331.4
90°	0.0	49.0	191.8	288.8	283.4
92.5°	0.0	44.7	176.6	250.7	240.9
95°	0.0	43.6	165.7	221.3	214.7
97.5°	0.0	42.5	154.8	196.2	191.8
100°	0.0	41.4	142.8	180.9	177.7
102.5°	0.0	40.3	133.0	173.3	164.6
105°	0.0	39.2	118.8	167.9	158.0
107.5°	0.0	38.1	105.7	163.5	157.0
110°	0.0	37.1	94.8	154.8	157.0



TEST NUMBER: P231919

CATALOG NUMBER: FVS4M-2-LD4-50-2HI-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	34.9	86.1	146.1	154.8
115°	0.0	33.8	77.4	138.4	150.4
117.5°	0.0	32.7	70.8	136.2	143.9
120°	0.0	31.6	65.4	133.0	137.3
122.5°	0.0	30.5	59.9	123.2	131.9
125°	0.0	29.4	54.5	111.2	126.4
127.5°	0.0	28.3	49.0	100.3	115.5
130°	0.0	27.2	44.7	88.3	103.5
132.5°	0.0	25.1	40.3	78.5	94.8
135°	0.0	22.9	37.1	69.8	87.2
137.5°	0.0	21.8	34.9	61.0	78.5
140°	0.0	19.6	31.6	54.5	69.8
142.5°	0.0	17.4	30.5	48.0	61.0
145°	0.0	16.3	28.3	42.5	52.3
147.5°	1.1	14.2	26.2	37.1	44.7
150°	1.1	12.0	22.9	30.5	37.1
152.5°	1.1	9.8	19.6	25.1	30.5
155°	1.1	6.5	16.3	19.6	22.9
157.5°	1.1	4.4	12.0	14.2	15.3
160°	1.1	2.2	8.7	8.7	8.7
162.5°	1.1	1.1	5.4	4.4	4.4
165°	1.1	1.1	2.2	0.0	0.0
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)