

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: P231917

Luminaire Tested: **FVS4M-2-LD4-35-2HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231917
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-LD4-35-2HI-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
2FT LENGTH, 2-MODULE LED WITH P125 LENS
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

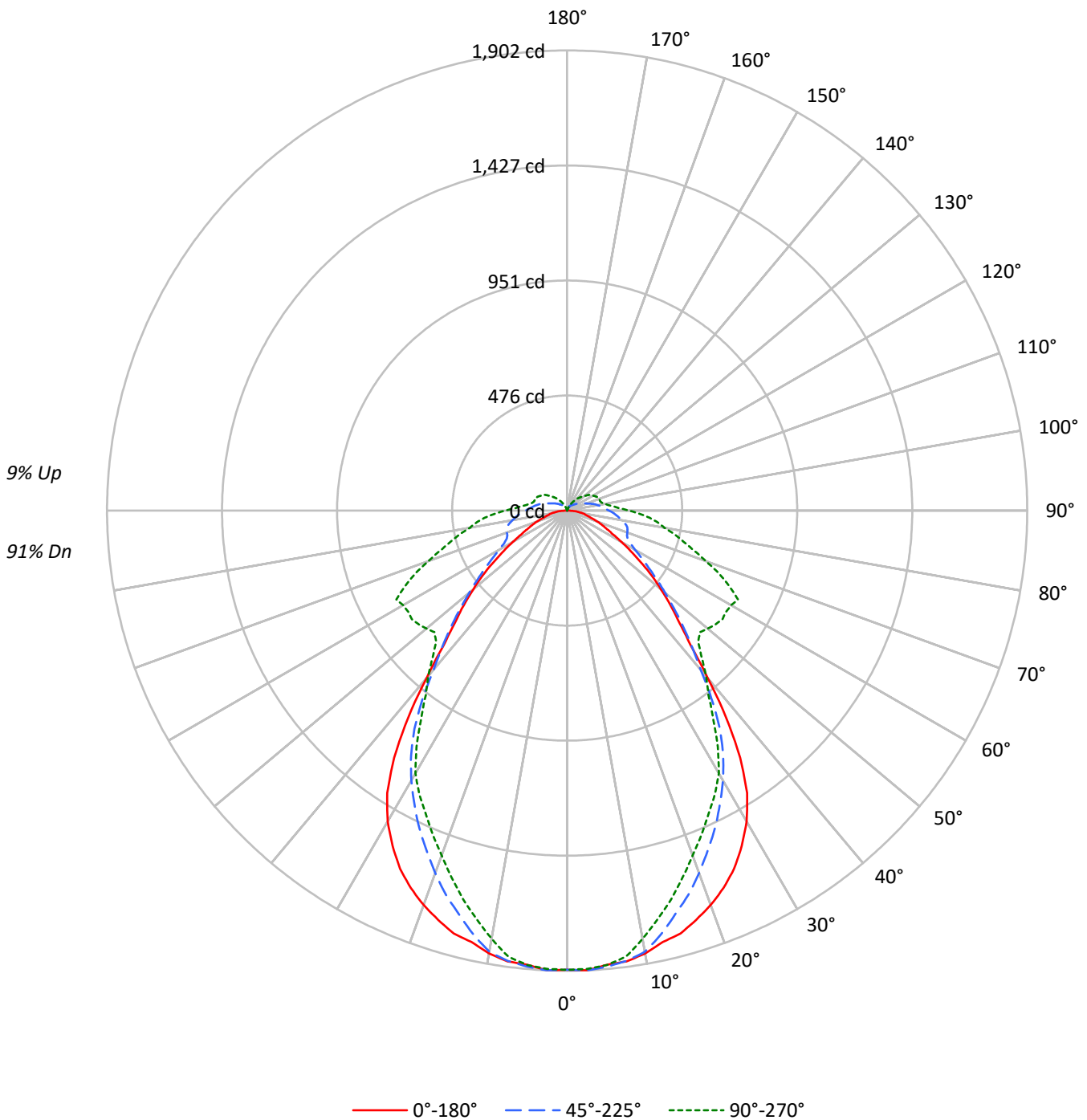
Lumens per Lamp: N/A
Luminaire Lumens: 4347.0 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.01 / 1.1
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 1.92' x H: 0.19')
CIE Type: Direct

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: P231917

CATALOG NUMBER: FVS4M-2-LD4-35-2HI-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°	34109	34109	34109
5°	33704	32720	32314
10°	33345	31089	29655
15°	32811	28385	26650
20°	32046	25845	23805
25°	30974	23325	21417
30°	29135	20805	19325
35°	25604	17952	16266
40°	19575	14231	13936
45°	15161	11545	12163
50°	12667	9285	12370
55°	10216	7550	13217
60°	7954	6269	13788
65°	6408	5692	13765
70°	5520	5904	12098
75°	4537	6278	10675
80°	4240	6250	9586
85°	3534	6273	9003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	4.1
10°-20°	487.3	11.2
20°-30°	676.5	15.6
30°-40°	695.0	16.0
40°-50°	551.3	12.7
50°-60°	434.5	10.0
60°-70°	381.6	8.8
70°-80°	316.9	7.3
80°-90°	215.6	5.0
90°-100°	133.9	3.1
100°-110°	97.0	2.2
110°-120°	73.3	1.7
120°-130°	52.0	1.2
130°-140°	30.5	0.7
140°-150°	16.1	0.4
150°-160°	5.9	0.1
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	1342.7	30.9
0°-40°	2037.7	46.9
0°-60°	3023.5	69.6
0°-90°	3937.6	90.6
90°-120°	304.2	7.0
90°-150°	402.9	9.3
90°-180°	409.0	9.4
0°-180°	4347.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1898	1898	1898	1898	1898	
5°	1884	1887	1892	1886	1885	179
15°	1810	1803	1727	1672	1663	509
25°	1633	1536	1447	1399	1382	748
35°	1247	1174	1101	1057	1053	763
45°	655	670	678	776	766	518
55°	372	326	411	609	783	335
65°	182	182	276	622	740	185
75°	89	144	257	509	498	98
85°	36	72	202	324	343	34
90°	0	44	172	260	255	2
95°	0	39	149	199	193	0
105°	0	35	107	151	142	0
115°	0	30	70	124	135	0
125°	0	26	49	100	114	0
135°	0	21	33	63	78	0
145°	0	15	26	38	47	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: P231917

CATALOG NUMBER: FVS4M-2-LD4-35-2HI-P125-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1898.0	1898.0	1898.0	1898.0	1898.0
2.5°	1901.9	1900.9	1901.9	1897.0	1896.0
5°	1884.3	1887.2	1892.1	1886.2	1885.3
7.5°	1879.4	1880.4	1877.4	1866.6	1859.8
10°	1858.8	1860.7	1851.9	1813.7	1797.0
12.5°	1826.4	1829.4	1794.1	1750.9	1729.4
15°	1809.8	1802.9	1727.4	1672.5	1662.7
17.5°	1773.5	1750.0	1665.7	1603.9	1589.2
20°	1735.3	1686.2	1594.1	1539.2	1516.6
22.5°	1688.2	1606.8	1519.6	1474.5	1451.0
25°	1633.3	1536.2	1447.0	1399.0	1382.3
27.5°	1562.7	1456.8	1367.6	1327.4	1322.5
30°	1483.3	1374.5	1288.2	1254.9	1253.9
32.5°	1384.3	1277.4	1201.0	1174.5	1158.8
35°	1247.0	1174.5	1101.0	1056.8	1052.9
37.5°	1081.4	1048.0	980.4	961.7	958.8
40°	902.9	915.7	857.8	888.2	893.1
42.5°	754.9	782.3	762.7	833.3	822.5
45°	654.9	669.6	678.4	775.5	765.7
47.5°	580.4	560.8	598.0	708.8	744.1
50°	505.9	475.5	527.4	662.7	758.8
52.5°	440.2	393.1	465.7	632.3	772.5
55°	371.6	326.5	410.8	608.8	783.3
57.5°	309.8	272.5	364.7	591.2	778.4
60°	258.8	232.3	323.5	585.3	782.3
62.5°	213.7	202.0	294.1	592.1	796.1
65°	182.3	182.3	275.5	622.5	740.2
67.5°	155.9	169.6	267.6	635.3	678.4
70°	133.3	161.8	264.7	604.9	609.8
72.5°	107.8	155.9	261.8	550.0	550.0
75°	89.2	144.1	256.9	508.8	498.0
77.5°	76.5	126.5	244.1	465.7	454.9
80°	63.7	108.8	229.4	415.7	407.8
82.5°	49.0	90.2	214.7	368.6	377.4
85°	36.3	72.5	202.0	323.5	343.1
87.5°	14.7	56.9	188.2	291.2	298.0
90°	0.0	44.1	172.5	259.8	254.9
92.5°	0.0	40.2	158.8	225.5	216.7
95°	0.0	39.2	149.0	199.0	193.1
97.5°	0.0	38.2	139.2	176.5	172.5
100°	0.0	37.3	128.4	162.7	159.8
102.5°	0.0	36.3	119.6	155.9	148.0
105°	0.0	35.3	106.9	151.0	142.2
107.5°	0.0	34.3	95.1	147.1	141.2
110°	0.0	33.3	85.3	139.2	141.2



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CATALOG NUMBER: FVS4M-2-LD4-35-2HI-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	31.4	77.4	131.4	139.2
115°	0.0	30.4	69.6	124.5	135.3
117.5°	0.0	29.4	63.7	122.5	129.4
120°	0.0	28.4	58.8	119.6	123.5
122.5°	0.0	27.5	53.9	110.8	118.6
125°	0.0	26.5	49.0	100.0	113.7
127.5°	0.0	25.5	44.1	90.2	103.9
130°	0.0	24.5	40.2	79.4	93.1
132.5°	0.0	22.5	36.3	70.6	85.3
135°	0.0	20.6	33.3	62.7	78.4
137.5°	0.0	19.6	31.4	54.9	70.6
140°	0.0	17.6	28.4	49.0	62.7
142.5°	0.0	15.7	27.5	43.1	54.9
145°	0.0	14.7	25.5	38.2	47.1
147.5°	1.0	12.7	23.5	33.3	40.2
150°	1.0	10.8	20.6	27.5	33.3
152.5°	1.0	8.8	17.6	22.5	27.5
155°	1.0	5.9	14.7	17.6	20.6
157.5°	1.0	3.9	10.8	12.7	13.7
160°	1.0	2.0	7.8	7.8	7.8
162.5°	1.0	1.0	4.9	3.9	3.9
165°	1.0	1.0	2.0	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)