

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: P232027

Luminaire Tested: **FVS4M-3-LD4-50-1HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4M-3-LD4-50-1HI-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
3FT LENGTH, 1-MODULE LED WITH P125 LENS
Light Source: (84) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

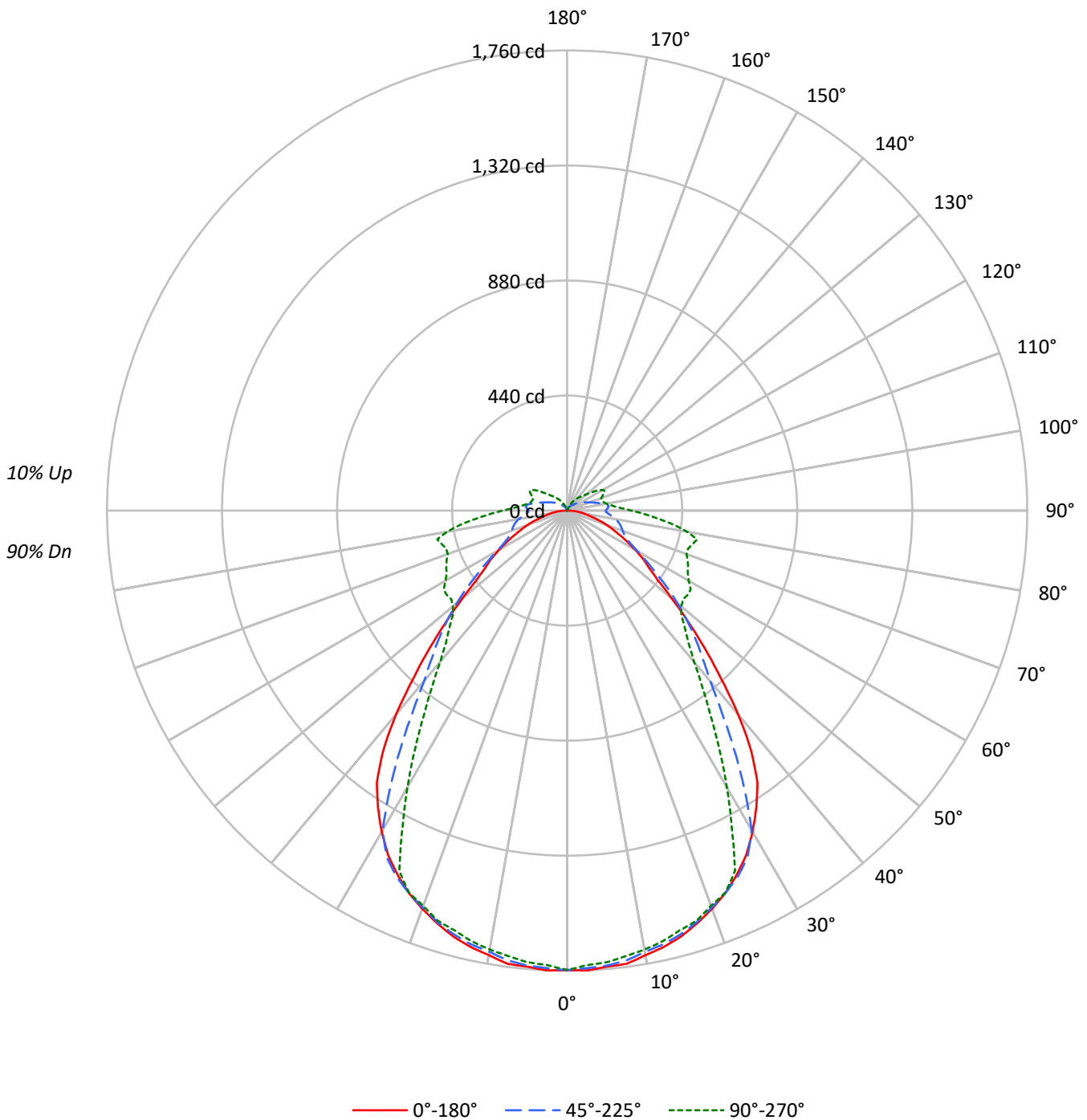
Lumens per Lamp: N/A
Luminaire Lumens: 4191.1 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

Input Watts (W): 36.3
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	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	106	101	96	92	102	98	94	90	92	88	85	86	83	81	81	79	77	74
2	97	89	82	76	93	86	80	75	81	76	71	76	72	68	72	68	65	63
3	89	79	71	65	86	77	69	64	72	66	61	68	63	59	64	60	57	54
4	82	71	62	56	79	69	61	55	65	59	53	62	56	52	58	54	50	48
5	76	64	56	49	73	62	54	49	59	52	47	56	50	46	53	48	44	42
6	71	58	50	44	68	57	49	43	54	47	42	51	45	41	49	44	40	38
7	66	53	45	39	64	52	44	39	50	43	38	47	41	37	45	40	36	34
8	62	49	41	35	60	48	40	35	46	39	34	44	38	33	42	37	33	31
9	58	45	37	32	56	44	37	32	42	36	31	41	35	31	39	34	30	28
10	54	42	34	29	53	41	34	29	39	33	29	38	32	28	36	31	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20751	20751	20751
5°	20637	19896	19533
10°	20473	18976	18488
15°	20267	18217	17509
20°	19904	17337	16596
25°	19430	16509	15471
30°	18646	15131	12375
35°	17504	12062	9694
40°	14892	9401	7734
45°	11648	7890	6656
50°	8910	6496	6107
55°	7215	5077	6236
60°	6393	4032	6212
65°	5435	3475	6233
70°	4701	3401	6337
75°	3890	3487	6987
80°	3259	3480	7189
85°	2554	3432	5996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.6	4.0
10°-20°	472.7	11.3
20°-30°	698.9	16.7
30°-40°	699.0	16.7
40°-50°	539.0	12.9
50°-60°	399.6	9.5
60°-70°	306.8	7.3
70°-80°	277.0	6.6
80°-90°	215.8	5.1
90°-100°	131.8	3.1
100°-110°	97.1	2.3
110°-120°	81.6	1.9
120°-130°	54.7	1.3
130°-140°	30.3	0.7
140°-150°	15.2	0.4
150°-160°	5.5	0.1
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	1337.1	31.9
0°-40°	2036.1	48.6
0°-60°	2974.7	71.0
0°-90°	3774.3	90.1
90°-120°	310.6	7.4
90°-150°	410.7	9.8
90°-180°	417.0	9.9
0°-180°	4191.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1757	1757	1757	1757	1757	
5°	1751	1744	1747	1742	1734	167
15°	1686	1673	1678	1673	1662	475
25°	1536	1537	1544	1547	1520	706
35°	1269	1280	1112	995	955	779
45°	742	705	694	678	638	577
55°	383	387	412	494	562	351
65°	221	197	250	409	510	223
75°	106	136	210	398	496	114
85°	33	78	161	365	348	33
90°	0	44	147	257	245	2
95°	0	37	159	191	182	0
105°	0	30	114	144	140	0
115°	0	26	74	157	155	0
125°	0	24	50	102	130	0
135°	0	20	32	63	77	0
145°	0	13	21	37	48	0
155°	0	6	12	18	22	0
165°	1	1	1	1	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1757.1	1757.1	1757.1	1757.1	1757.1
2.5°	1760.4	1752.7	1751.6	1746.2	1739.7
5°	1750.6	1744.0	1747.3	1741.8	1734.2
7.5°	1748.4	1738.6	1735.3	1720.0	1718.9
10°	1726.6	1724.4	1713.5	1713.5	1704.8
12.5°	1709.1	1700.4	1699.3	1693.9	1687.3
15°	1686.2	1673.2	1677.5	1673.2	1662.3
17.5°	1654.6	1647.0	1650.3	1651.4	1644.8
20°	1620.8	1620.8	1615.4	1624.1	1608.9
22.5°	1582.7	1582.7	1582.7	1589.2	1581.6
25°	1535.8	1536.9	1544.5	1546.7	1519.5
27.5°	1483.5	1490.0	1494.4	1425.7	1362.5
30°	1418.1	1429.0	1410.5	1269.9	1221.9
32.5°	1346.2	1361.4	1261.1	1133.6	1083.5
35°	1268.8	1279.7	1111.8	995.2	954.9
37.5°	1155.4	1154.3	969.0	887.3	848.0
40°	1018.1	987.6	850.2	788.1	754.3
42.5°	870.9	829.5	766.3	723.8	685.6
45°	742.3	705.2	694.3	678.0	637.7
47.5°	624.6	612.6	622.4	636.6	593.0
50°	522.1	529.7	551.5	579.9	570.1
52.5°	436.0	456.7	479.6	534.1	558.1
55°	382.6	387.0	412.0	493.8	562.4
57.5°	344.4	325.9	359.7	462.2	560.3
60°	300.8	271.4	309.6	438.2	536.3
62.5°	259.4	225.6	273.6	422.9	519.9
65°	221.3	197.3	249.6	408.8	510.1
67.5°	189.7	176.6	235.4	396.8	499.2
70°	160.2	158.1	225.6	390.2	486.1
72.5°	131.9	143.9	218.0	389.1	485.1
75°	105.7	136.3	210.4	397.9	496.0
77.5°	81.8	129.7	199.5	415.3	509.0
80°	65.4	115.5	187.5	425.1	465.4
82.5°	50.1	97.0	174.4	416.4	408.8
85°	32.7	78.5	161.3	365.2	347.7
87.5°	15.3	57.8	150.4	309.6	293.2
90°	0.0	43.6	147.2	257.2	245.3
92.5°	0.0	39.2	152.6	218.0	207.1
95°	0.0	37.1	159.1	190.8	182.0
97.5°	0.0	36.0	158.1	172.2	164.6
100°	0.0	34.9	145.0	158.1	153.7
102.5°	0.0	32.7	129.7	148.2	143.9
105°	0.0	30.5	114.5	143.9	139.5
107.5°	0.0	29.4	102.5	147.2	138.4
110°	0.0	27.3	91.6	153.7	138.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	26.2	81.8	160.2	146.1
115°	0.0	26.2	74.1	157.0	154.8
117.5°	0.0	25.1	67.6	146.1	161.3
120°	0.0	25.1	61.0	131.9	158.1
122.5°	0.0	24.0	55.6	117.7	145.0
125°	0.0	24.0	50.1	102.5	129.7
127.5°	0.0	22.9	45.8	91.6	111.2
130°	0.0	21.8	40.3	80.7	97.0
132.5°	0.0	21.8	36.0	71.9	86.1
135°	0.0	19.6	31.6	63.2	77.4
137.5°	0.0	18.5	28.3	56.7	69.8
140°	0.0	16.4	26.2	49.1	62.1
142.5°	0.0	15.3	22.9	42.5	55.6
145°	0.0	13.1	20.7	37.1	48.0
147.5°	0.0	10.9	18.5	32.7	40.3
150°	0.0	9.8	17.4	27.3	32.7
152.5°	0.0	7.6	14.2	22.9	27.3
155°	0.0	5.5	12.0	18.5	21.8
157.5°	0.0	4.4	8.7	12.0	15.3
160°	1.1	2.2	6.5	7.6	9.8
162.5°	1.1	2.2	3.3	3.3	5.5
165°	1.1	1.1	1.1	1.1	1.1
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)