

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: P231916

Luminaire Tested: **FVS4M-2-LD4-30-2HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231916
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-LD4-30-2HI-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
2FT LENGTH, 2-MODULE LED WITH P125 LENS
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

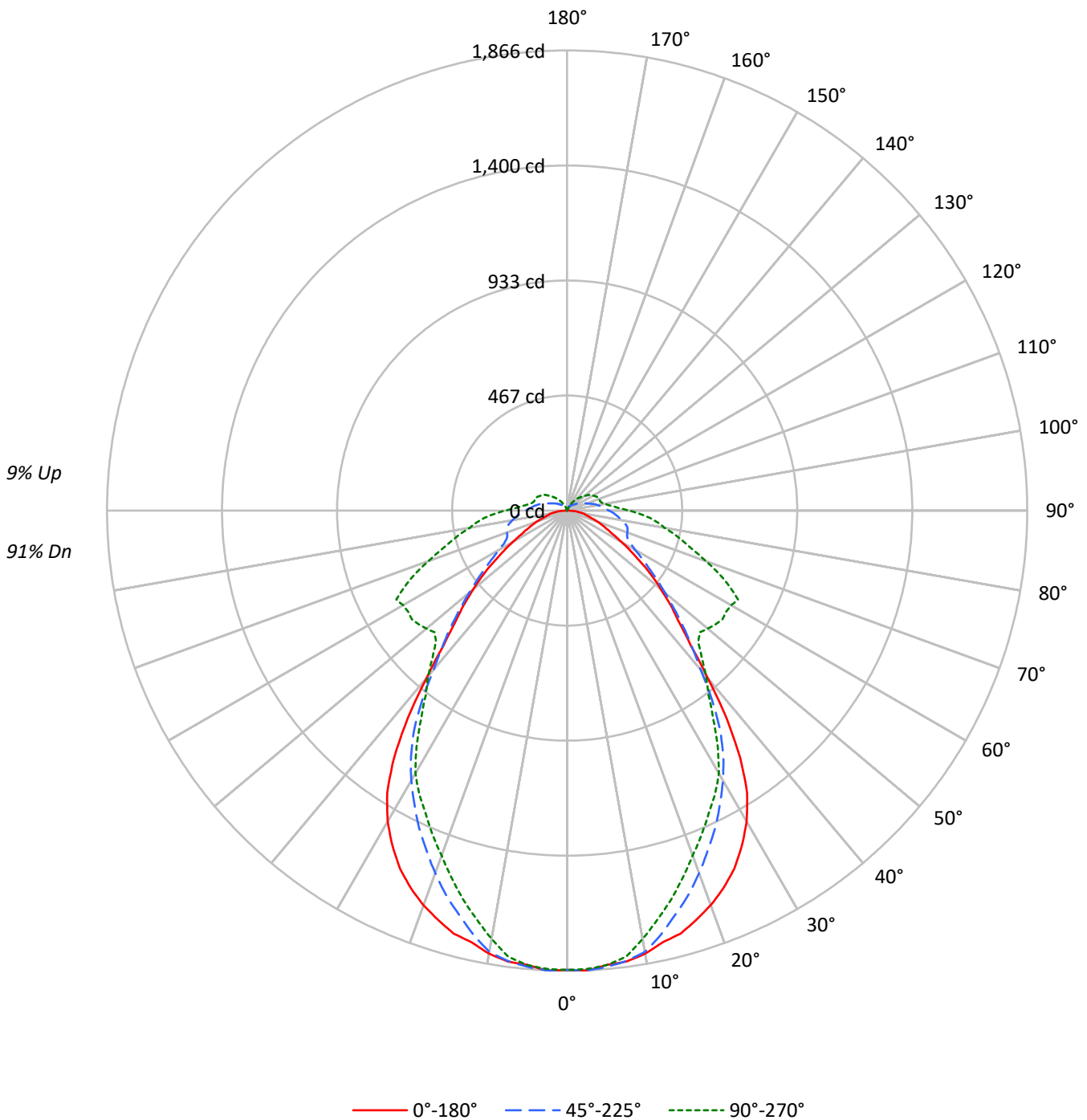
Lumens per Lamp: N/A
Luminaire Lumens: 4266.0 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.01 / 1.1
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 1.92' x H: 0.19')
CIE Type: Direct

Input Watts (W): 44.8
Input Voltage (V): 120
Input Current (A_{in}): 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	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°	33473	33473	33473
5°	33076	32112	31711
10°	32724	30510	29102
15°	32198	27856	26153
20°	31447	25363	23363
25°	30397	22892	21019
30°	28593	20417	18965
35°	25127	17616	15963
40°	19211	13966	13677
45°	14879	11330	11935
50°	12429	9112	12140
55°	10023	7409	12970
60°	7807	6153	13533
65°	6292	5587	13508
70°	5417	5795	11872
75°	4456	6160	10476
80°	4160	6133	9407
85°	3466	6155	8835



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.5	4.1
10°-20°	478.3	11.2
20°-30°	663.9	15.6
30°-40°	682.1	16.0
40°-50°	541.1	12.7
50°-60°	426.4	10.0
60°-70°	374.5	8.8
70°-80°	310.9	7.3
80°-90°	211.6	5.0
90°-100°	131.4	3.1
100°-110°	95.2	2.2
110°-120°	72.0	1.7
120°-130°	51.1	1.2
130°-140°	30.0	0.7
140°-150°	15.8	0.4
150°-160°	5.7	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	1317.7	30.9
0°-40°	1999.8	46.9
0°-60°	2967.2	69.6
0°-90°	3864.2	90.6
90°-120°	298.6	7.0
90°-150°	395.4	9.3
90°-180°	402.0	9.4
0°-180°	4266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1863	1863	1863	1863	1863	
5°	1849	1852	1857	1851	1850	176
15°	1776	1769	1695	1641	1632	500
25°	1603	1508	1420	1373	1357	734
35°	1224	1153	1080	1037	1033	749
45°	643	657	666	761	751	508
55°	365	320	403	598	769	329
65°	179	179	270	611	726	181
75°	88	141	252	499	489	96
85°	36	71	198	318	337	33
90°	0	43	169	255	250	2
95°	0	38	146	195	190	0
105°	0	35	105	148	140	0
115°	0	30	68	122	133	0
125°	0	26	48	98	112	0
135°	0	20	33	62	77	0
145°	0	14	25	38	46	0
155°	1	6	14	17	20	0
165°	1	1	2	0	0	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°	1862.6	1862.6	1862.6	1862.6	1862.6
2.5°	1866.5	1865.5	1866.5	1861.7	1860.7
5°	1849.2	1852.1	1856.9	1851.1	1850.1
7.5°	1844.4	1845.3	1842.4	1831.8	1825.1
10°	1824.2	1826.1	1817.4	1779.9	1763.5
12.5°	1792.4	1795.3	1760.7	1718.3	1697.2
15°	1776.0	1769.3	1695.2	1641.4	1631.7
17.5°	1740.4	1717.4	1634.6	1574.0	1559.6
20°	1702.9	1654.8	1564.4	1510.5	1488.4
22.5°	1656.7	1576.9	1491.3	1447.0	1423.9
25°	1602.9	1507.6	1420.1	1372.9	1356.6
27.5°	1533.6	1429.7	1342.1	1302.7	1297.9
30°	1455.7	1348.9	1264.2	1231.5	1230.5
32.5°	1358.5	1253.6	1178.6	1152.6	1137.2
35°	1223.8	1152.6	1080.4	1037.1	1033.3
37.5°	1061.2	1028.5	962.1	943.8	940.9
40°	886.1	898.6	841.8	871.7	876.5
42.5°	740.8	767.8	748.5	817.8	807.2
45°	642.7	657.1	665.8	761.0	751.4
47.5°	569.6	550.3	586.9	695.6	730.2
50°	496.4	466.6	517.6	650.4	744.7
52.5°	432.0	385.8	457.0	620.6	758.1
55°	364.6	320.4	403.1	597.5	768.7
57.5°	304.0	267.5	357.9	580.1	763.9
60°	254.0	228.0	317.5	574.4	767.8
62.5°	209.7	198.2	288.6	581.1	781.2
65°	179.0	179.0	270.4	610.9	726.4
67.5°	153.0	166.4	262.7	623.4	665.8
70°	130.8	158.7	259.8	593.6	598.4
72.5°	105.8	153.0	256.9	539.7	539.7
75°	87.6	141.4	252.1	499.3	488.7
77.5°	75.0	124.1	239.6	457.0	446.4
80°	62.5	106.8	225.1	407.9	400.2
82.5°	48.1	88.5	210.7	361.8	370.4
85°	35.6	71.2	198.2	317.5	336.7
87.5°	14.4	55.8	184.7	285.7	292.5
90°	0.0	43.3	169.3	255.0	250.1
92.5°	0.0	39.4	155.9	221.3	212.6
95°	0.0	38.5	146.2	195.3	189.5
97.5°	0.0	37.5	136.6	173.2	169.3
100°	0.0	36.6	126.0	159.7	156.8
102.5°	0.0	35.6	117.4	153.0	145.3
105°	0.0	34.6	104.9	148.2	139.5
107.5°	0.0	33.7	93.3	144.3	138.5
110°	0.0	32.7	83.7	136.6	138.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	30.8	76.0	128.9	136.6
115°	0.0	29.8	68.3	122.2	132.8
117.5°	0.0	28.9	62.5	120.3	127.0
120°	0.0	27.9	57.7	117.4	121.2
122.5°	0.0	26.9	52.9	108.7	116.4
125°	0.0	26.0	48.1	98.1	111.6
127.5°	0.0	25.0	43.3	88.5	102.0
130°	0.0	24.1	39.4	77.9	91.4
132.5°	0.0	22.1	35.6	69.3	83.7
135°	0.0	20.2	32.7	61.6	77.0
137.5°	0.0	19.2	30.8	53.9	69.3
140°	0.0	17.3	27.9	48.1	61.6
142.5°	0.0	15.4	26.9	42.3	53.9
145°	0.0	14.4	25.0	37.5	46.2
147.5°	1.0	12.5	23.1	32.7	39.4
150°	1.0	10.6	20.2	26.9	32.7
152.5°	1.0	8.7	17.3	22.1	26.9
155°	1.0	5.8	14.4	17.3	20.2
157.5°	1.0	3.8	10.6	12.5	13.5
160°	1.0	1.9	7.7	7.7	7.7
162.5°	1.0	1.0	4.8	3.8	3.8
165°	1.0	1.0	1.9	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)