

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: P231913

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231913
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-LD4-35-2STD-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

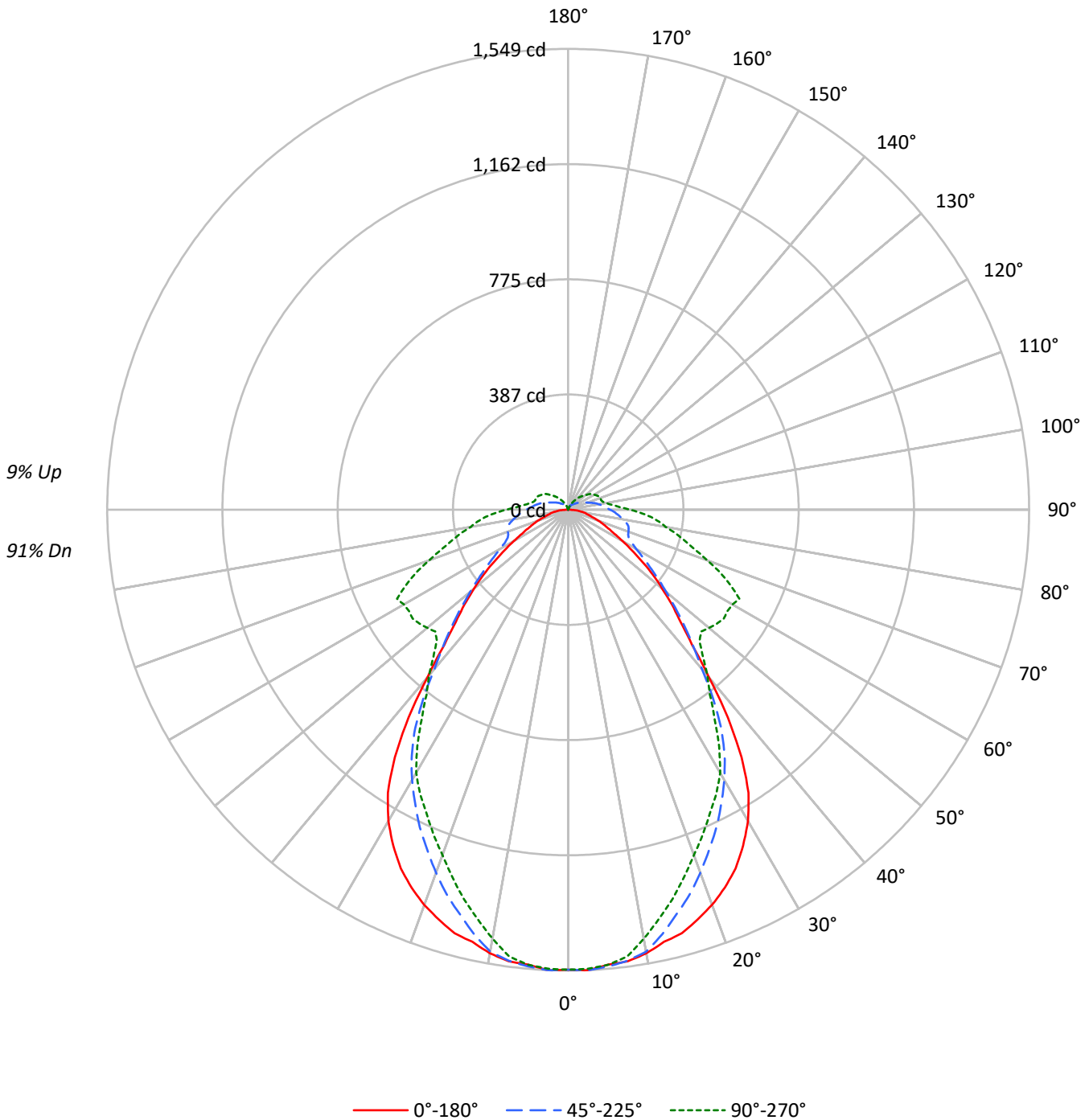
Lumens per Lamp: N/A
Luminaire Lumens: 3541.0 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.01 / 1.1
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 1.92' x H: 0.19')
CIE Type: Direct

Input Watts (W): 33.9
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	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°	27785	27785	27785
5°	27454	26654	26322
10°	27161	25324	24156
15°	26727	23122	21709
20°	26103	21052	19392
25°	25231	19000	17446
30°	23733	16948	15742
35°	20857	14622	13250
40°	15946	11593	11352
45°	12351	9404	9907
50°	10319	7563	10076
55°	8321	6150	10767
60°	6479	5106	11233
65°	5220	4636	11211
70°	4497	4809	9854
75°	3698	5112	8696
80°	3455	5092	7809
85°	2872	5108	7334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	4.1
10°-20°	397.0	11.2
20°-30°	551.1	15.6
30°-40°	566.2	16.0
40°-50°	449.1	12.7
50°-60°	353.9	10.0
60°-70°	310.8	8.8
70°-80°	258.1	7.3
80°-90°	175.6	5.0
90°-100°	109.1	3.1
100°-110°	79.0	2.2
110°-120°	59.8	1.7
120°-130°	42.4	1.2
130°-140°	24.9	0.7
140°-150°	13.1	0.4
150°-160°	4.8	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	1093.7	30.9
0°-40°	1659.9	46.9
0°-60°	2462.9	69.6
0°-90°	3207.5	90.6
90°-120°	247.8	7.0
90°-150°	328.3	9.3
90°-180°	333.0	9.4
0°-180°	3541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1546	1546	1546	1546	1546	
5°	1535	1537	1541	1536	1536	146
15°	1474	1469	1407	1362	1354	415
25°	1330	1251	1179	1140	1126	609
35°	1016	957	897	861	858	622
45°	534	545	553	632	624	422
55°	303	266	335	496	638	273
65°	148	148	224	507	603	151
75°	73	117	209	414	406	80
85°	30	59	164	264	280	28
90°	0	36	141	212	208	2
95°	0	32	121	162	157	0
105°	0	29	87	123	116	0
115°	0	25	57	101	110	0
125°	0	22	40	82	93	0
135°	0	17	27	51	64	0
145°	0	12	21	31	38	0
155°	1	5	12	14	17	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°	1546.1	1546.1	1546.1	1546.1	1546.1
2.5°	1549.3	1548.5	1549.3	1545.3	1544.5
5°	1534.9	1537.3	1541.3	1536.5	1535.7
7.5°	1530.9	1531.7	1529.3	1520.5	1514.9
10°	1514.1	1515.7	1508.5	1477.4	1463.8
12.5°	1487.8	1490.2	1461.4	1426.3	1408.7
15°	1474.2	1468.6	1407.1	1362.4	1354.4
17.5°	1444.7	1425.5	1356.8	1306.5	1294.5
20°	1413.5	1373.6	1298.5	1253.8	1235.4
22.5°	1375.2	1308.9	1237.8	1201.1	1181.9
25°	1330.5	1251.4	1178.7	1139.6	1126.0
27.5°	1273.0	1186.7	1114.0	1081.3	1077.3
30°	1208.3	1119.6	1049.4	1022.2	1021.4
32.5°	1127.6	1040.6	978.3	956.7	943.9
35°	1015.8	956.7	896.8	860.9	857.7
37.5°	880.9	853.7	798.6	783.4	781.0
40°	735.5	745.9	698.8	723.5	727.5
42.5°	614.9	637.3	621.3	678.8	670.0
45°	533.5	545.4	552.6	631.7	623.7
47.5°	472.8	456.8	487.1	577.4	606.1
50°	412.1	387.3	429.6	539.9	618.1
52.5°	358.6	320.2	379.3	515.1	629.3
55°	302.7	265.9	334.6	495.9	638.1
57.5°	252.4	222.0	297.1	481.6	634.1
60°	210.8	189.3	263.5	476.8	637.3
62.5°	174.1	164.5	239.6	482.4	648.5
65°	148.5	148.5	224.4	507.1	602.9
67.5°	127.0	138.2	218.0	517.5	552.6
70°	108.6	131.8	215.6	492.7	496.7
72.5°	87.8	127.0	213.2	448.0	448.0
75°	72.7	117.4	209.2	414.5	405.7
77.5°	62.3	103.0	198.9	379.3	370.5
80°	51.9	88.6	186.9	338.6	332.2
82.5°	39.9	73.5	174.9	300.3	307.5
85°	29.5	59.1	164.5	263.5	279.5
87.5°	12.0	46.3	153.3	237.2	242.8
90°	0.0	35.9	140.6	211.6	207.6
92.5°	0.0	32.7	129.4	183.7	176.5
95°	0.0	31.9	121.4	162.1	157.3
97.5°	0.0	31.1	113.4	143.7	140.6
100°	0.0	30.3	104.6	132.6	130.2
102.5°	0.0	29.5	97.4	127.0	120.6
105°	0.0	28.7	87.0	123.0	115.8
107.5°	0.0	28.0	77.5	119.8	115.0
110°	0.0	27.2	69.5	113.4	115.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	25.6	63.1	107.0	113.4
115°	0.0	24.8	56.7	101.4	110.2
117.5°	0.0	24.0	51.9	99.8	105.4
120°	0.0	23.2	47.9	97.4	100.6
122.5°	0.0	22.4	43.9	90.2	96.6
125°	0.0	21.6	39.9	81.5	92.6
127.5°	0.0	20.8	35.9	73.5	84.7
130°	0.0	20.0	32.7	64.7	75.9
132.5°	0.0	18.4	29.5	57.5	69.5
135°	0.0	16.8	27.2	51.1	63.9
137.5°	0.0	16.0	25.6	44.7	57.5
140°	0.0	14.4	23.2	39.9	51.1
142.5°	0.0	12.8	22.4	35.1	44.7
145°	0.0	12.0	20.8	31.1	38.3
147.5°	0.8	10.4	19.2	27.2	32.7
150°	0.8	8.8	16.8	22.4	27.2
152.5°	0.8	7.2	14.4	18.4	22.4
155°	0.8	4.8	12.0	14.4	16.8
157.5°	0.8	3.2	8.8	10.4	11.2
160°	0.8	1.6	6.4	6.4	6.4
162.5°	0.8	0.8	4.0	3.2	3.2
165°	0.8	0.8	1.6	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)