

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: P231912

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231912
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-LD4-30-2STD-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

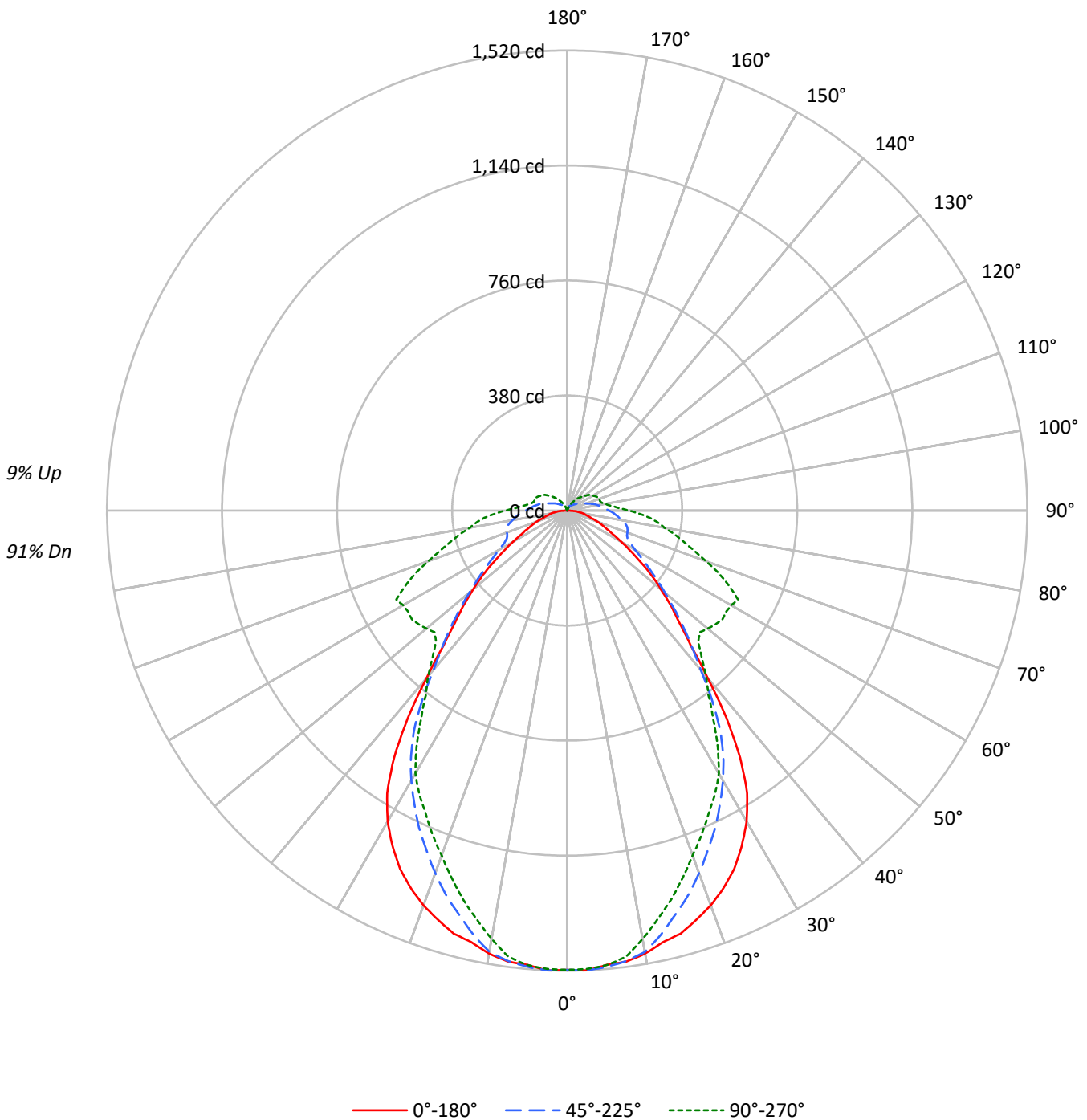
Lumens per Lamp: N/A
Luminaire Lumens: 3475.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.01 / 1.1
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 1.92' x H: 0.19')
CIE Type: Direct

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°	27267	27267	27267
5°	26943	26158	25832
10°	26655	24852	23706
15°	26228	22691	21305
20°	25617	20660	19030
25°	24761	18647	17121
30°	23291	16631	15449
35°	20469	14350	13003
40°	15649	11376	11141
45°	12119	9229	9723
50°	10126	7422	9889
55°	8165	6036	10566
60°	6359	5012	11023
65°	5125	4549	11003
70°	4415	4720	9672
75°	3627	5017	8534
80°	3388	4997	7663
85°	2823	5012	7198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	4.1
10°-20°	389.6	11.2
20°-30°	540.8	15.6
30°-40°	555.6	16.0
40°-50°	440.7	12.7
50°-60°	347.3	10.0
60°-70°	305.0	8.8
70°-80°	253.3	7.3
80°-90°	172.4	5.0
90°-100°	107.1	3.1
100°-110°	77.5	2.2
110°-120°	58.6	1.7
120°-130°	41.6	1.2
130°-140°	24.4	0.7
140°-150°	12.9	0.4
150°-160°	4.7	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	1073.4	30.9
0°-40°	1629.0	46.9
0°-60°	2417.0	69.6
0°-90°	3147.8	90.6
90°-120°	243.2	7.0
90°-150°	322.1	9.3
90°-180°	327.0	9.4
0°-180°	3475.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1517	1517	1517	1517	1517	
5°	1506	1509	1513	1508	1507	143
15°	1447	1441	1381	1337	1329	407
25°	1306	1228	1157	1118	1105	598
35°	997	939	880	845	842	610
45°	524	535	542	620	612	414
55°	297	261	328	487	626	268
65°	146	146	220	498	592	148
75°	71	115	205	407	398	78
85°	29	58	161	259	274	27
90°	0	35	138	208	204	2
95°	0	31	119	159	154	0
105°	0	28	85	121	114	0
115°	0	24	56	100	108	0
125°	0	21	39	80	91	0
135°	0	16	27	50	63	0
145°	0	12	20	31	38	0
155°	1	5	12	14	16	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°	1517.3	1517.3	1517.3	1517.3	1517.3
2.5°	1520.4	1519.6	1520.4	1516.5	1515.7
5°	1506.3	1508.6	1512.6	1507.9	1507.1
7.5°	1502.4	1503.2	1500.8	1492.2	1486.7
10°	1485.9	1487.5	1480.4	1449.9	1436.5
12.5°	1460.1	1462.4	1434.2	1399.7	1382.5
15°	1446.7	1441.2	1380.9	1337.0	1329.2
17.5°	1417.7	1398.9	1331.5	1282.2	1270.4
20°	1387.2	1348.0	1274.3	1230.4	1212.4
22.5°	1349.6	1284.5	1214.8	1178.7	1159.9
25°	1305.7	1228.1	1156.8	1118.4	1105.0
27.5°	1249.2	1164.6	1093.3	1061.1	1057.2
30°	1185.8	1098.8	1029.8	1003.2	1002.4
32.5°	1106.6	1021.2	960.0	938.9	926.3
35°	996.9	938.9	880.1	844.8	841.7
37.5°	864.4	837.8	783.7	768.8	766.5
40°	721.8	732.0	685.7	710.0	714.0
42.5°	603.5	625.4	609.7	666.2	657.5
45°	523.5	535.3	542.3	619.9	612.1
47.5°	464.0	448.3	478.1	566.6	594.8
50°	404.4	380.1	421.6	529.8	606.6
52.5°	351.9	314.3	372.3	505.5	617.6
55°	297.0	261.0	328.4	486.7	626.2
57.5°	247.7	217.9	291.5	472.6	622.3
60°	206.9	185.7	258.6	467.9	625.4
62.5°	170.8	161.4	235.1	473.4	636.4
65°	145.8	145.8	220.2	497.7	591.7
67.5°	124.6	135.6	214.0	507.8	542.3
70°	106.6	129.3	211.6	483.6	487.5
72.5°	86.2	124.6	209.3	439.7	439.7
75°	71.3	115.2	205.3	406.7	398.1
77.5°	61.1	101.1	195.1	372.3	363.6
80°	50.9	87.0	183.4	332.3	326.0
82.5°	39.2	72.1	171.6	294.7	301.7
85°	29.0	58.0	161.4	258.6	274.3
87.5°	11.8	45.5	150.5	232.8	238.2
90°	0.0	35.3	137.9	207.7	203.8
92.5°	0.0	32.1	127.0	180.3	173.2
95°	0.0	31.3	119.1	159.1	154.4
97.5°	0.0	30.6	111.3	141.1	137.9
100°	0.0	29.8	102.7	130.1	127.7
102.5°	0.0	29.0	95.6	124.6	118.3
105°	0.0	28.2	85.4	120.7	113.6
107.5°	0.0	27.4	76.0	117.6	112.9
110°	0.0	26.6	68.2	111.3	112.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	25.1	61.9	105.0	111.3
115°	0.0	24.3	55.6	99.5	108.2
117.5°	0.0	23.5	50.9	98.0	103.4
120°	0.0	22.7	47.0	95.6	98.7
122.5°	0.0	21.9	43.1	88.6	94.8
125°	0.0	21.2	39.2	79.9	90.9
127.5°	0.0	20.4	35.3	72.1	83.1
130°	0.0	19.6	32.1	63.5	74.5
132.5°	0.0	18.0	29.0	56.4	68.2
135°	0.0	16.5	26.6	50.2	62.7
137.5°	0.0	15.7	25.1	43.9	56.4
140°	0.0	14.1	22.7	39.2	50.2
142.5°	0.0	12.5	21.9	34.5	43.9
145°	0.0	11.8	20.4	30.6	37.6
147.5°	0.8	10.2	18.8	26.6	32.1
150°	0.8	8.6	16.5	21.9	26.6
152.5°	0.8	7.1	14.1	18.0	21.9
155°	0.8	4.7	11.8	14.1	16.5
157.5°	0.8	3.1	8.6	10.2	11.0
160°	0.8	1.6	6.3	6.3	6.3
162.5°	0.8	0.8	3.9	3.1	3.1
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)