

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: P231877

Luminaire Tested: **FVS4M-2-LD4-35-1STD-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4M-2-LD4-35-1STD-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
2FT LENGTH, 1-MODULE LED WITH P125 LENS
Light Source: (42) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

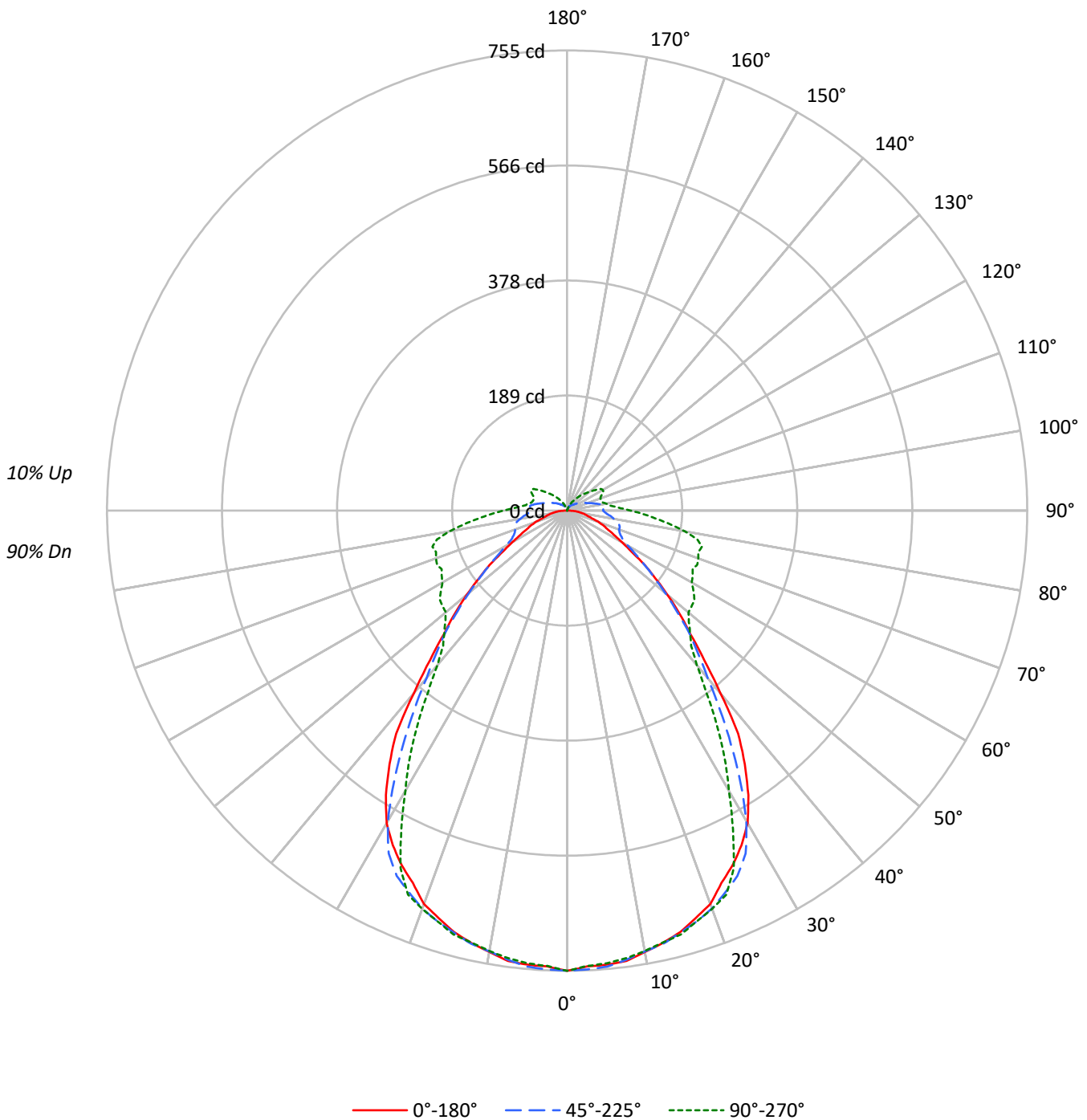
Lumens per Lamp: N/A
Luminaire Lumens: 1756.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.1 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 1.92' x H: 0.19')
CIE Type: Semi-Direct

Input Watts (W): 16.99
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	72	76	72	68	72	68	65	63
3	89	79	71	65	86	77	70	64	72	66	61	68	63	59	65	60	57	54
4	82	71	63	56	79	69	61	55	65	59	54	62	56	52	59	54	50	48
5	76	64	56	49	74	63	55	49	59	53	47	56	51	46	54	49	45	42
6	71	58	50	44	68	57	49	43	54	47	42	52	46	41	49	44	40	38
7	66	53	45	40	64	52	45	39	50	43	38	48	42	37	45	40	36	34
8	62	49	41	36	60	48	41	35	46	39	35	44	38	34	42	37	33	31
9	58	45	38	33	56	45	37	32	43	36	32	41	35	31	39	34	30	28
10	55	42	35	30	53	41	34	30	40	33	29	38	32	28	37	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13570	13570	13570
5°	13377	12989	12778
10°	13189	12329	12106
15°	12983	11780	11542
20°	12681	11263	10917
25°	12179	10660	10025
30°	11630	9500	8182
35°	10428	7645	6606
40°	8477	5961	5159
45°	6605	4802	4532
50°	5373	3694	4237
55°	4261	2834	4304
60°	3175	2233	4161
65°	2598	2004	4227
70°	2269	2021	4541
75°	1821	2155	4907
80°	1744	2122	4614
85°	1470	2050	3797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	4.0
10°-20°	202.3	11.5
20°-30°	296.7	16.9
30°-40°	293.3	16.7
40°-50°	221.0	12.6
50°-60°	159.3	9.1
60°-70°	126.0	7.2
70°-80°	121.3	6.9
80°-90°	89.3	5.1
90°-100°	53.7	3.1
100°-110°	39.6	2.3
110°-120°	33.6	1.9
120°-130°	24.4	1.4
130°-140°	14.0	0.8
140°-150°	7.3	0.4
150°-160°	2.9	0.2
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	570.0	32.5
0°-40°	863.4	49.2
0°-60°	1243.6	70.8
0°-90°	1580.1	90.0
90°-120°	126.9	7.2
90°-150°	172.7	9.8
90°-180°	176.0	10.0
0°-180°	1756.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	755	755	755	755	755	
5°	748	748	751	750	746	71
15°	716	714	717	720	720	202
25°	642	646	661	658	647	295
35°	508	522	469	436	428	314
45°	285	279	282	292	285	225
55°	155	138	154	207	255	138
65°	74	75	97	176	227	75
75°	36	58	88	187	229	40
85°	15	28	66	152	145	14
90°	0	17	59	107	104	1
95°	0	14	61	80	77	0
105°	0	13	45	59	59	0
115°	0	11	29	65	63	0
125°	0	11	21	47	60	0
135°	0	10	14	29	38	0
145°	0	7	10	18	22	0
155°	0	4	6	9	10	0
165°	0	1	2	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°	755.1	755.1	755.1	755.1	755.1
2.5°	748.7	753.5	753.5	750.3	747.9
5°	747.9	747.9	751.1	749.5	745.5
7.5°	745.5	743.2	743.2	740.8	740.8
10°	735.2	735.2	734.4	737.6	733.6
12.5°	726.5	726.5	728.1	727.3	725.7
15°	716.1	713.7	716.9	720.1	720.1
17.5°	701.0	702.6	706.6	710.6	706.6
20°	686.7	686.7	694.7	695.5	695.5
22.5°	661.3	669.2	678.0	682.7	682.0
25°	642.2	646.2	661.3	658.1	647.0
27.5°	619.2	626.3	634.3	606.4	589.0
30°	592.1	596.1	588.2	542.1	530.9
32.5°	553.2	566.7	529.3	488.0	480.9
35°	507.9	522.2	468.9	436.4	427.6
37.5°	461.0	458.6	411.7	383.9	374.4
40°	391.0	383.9	359.3	345.7	330.6
42.5°	333.0	327.5	317.9	315.5	301.2
45°	285.3	279.0	282.2	291.7	285.3
47.5°	249.6	236.9	243.2	268.6	271.0
50°	214.6	197.9	209.8	244.8	259.9
52.5°	182.0	166.1	179.6	224.1	257.5
55°	155.0	138.3	154.2	207.4	255.1
57.5°	124.0	114.5	132.7	196.3	245.6
60°	103.3	96.2	115.2	188.4	236.1
62.5°	86.6	83.5	103.3	179.6	232.1
65°	73.9	74.7	97.0	176.4	227.3
67.5°	64.4	69.9	93.0	174.1	231.3
70°	54.8	66.0	90.6	178.8	228.9
72.5°	42.9	62.8	90.6	183.6	225.7
75°	35.8	58.0	88.2	186.8	228.9
77.5°	31.0	50.1	84.3	190.0	218.6
80°	26.2	42.9	77.9	188.4	196.3
82.5°	19.9	35.0	72.3	176.4	169.3
85°	15.1	27.8	66.0	151.8	144.7
87.5°	6.4	21.5	62.0	129.6	124.0
90°	0.0	16.7	58.8	107.3	104.1
92.5°	0.0	15.1	59.6	91.4	87.4
95°	0.0	14.3	61.2	80.3	77.1
97.5°	0.0	13.5	61.2	72.3	68.4
100°	0.0	13.5	56.4	66.0	65.2
102.5°	0.0	13.5	50.9	62.8	60.4
105°	0.0	12.7	45.3	58.8	58.8
107.5°	0.0	12.7	40.5	58.8	58.0
110°	0.0	11.9	35.8	62.0	58.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	11.9	32.6	65.2	59.6
115°	0.0	11.1	29.4	65.2	62.8
117.5°	0.0	11.1	27.0	61.2	66.8
120°	0.0	11.1	24.6	57.2	67.6
122.5°	0.0	11.1	23.0	52.5	66.0
125°	0.0	11.1	20.7	46.9	59.6
127.5°	0.0	11.1	18.3	42.1	54.0
130°	0.0	10.3	16.7	37.4	47.7
132.5°	0.0	10.3	15.1	32.6	42.1
135°	0.0	9.5	13.5	29.4	38.2
137.5°	0.0	8.7	12.7	25.4	33.4
140°	0.0	8.7	11.9	23.0	29.4
142.5°	0.0	7.9	11.1	19.9	26.2
145°	0.0	7.2	10.3	17.5	22.3
147.5°	0.0	6.4	9.5	15.1	19.1
150°	0.0	5.6	8.7	12.7	15.9
152.5°	0.0	4.8	7.9	11.1	12.7
155°	0.0	4.0	6.4	8.7	10.3
157.5°	0.0	3.2	4.8	6.4	7.2
160°	0.0	2.4	4.0	4.8	4.8
162.5°	0.0	1.6	2.4	2.4	2.4
165°	0.0	0.8	1.6	0.8	0.8
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)