

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: P231876

Luminaire Tested: **FVS4M-2-LD4-30-1STD-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231876
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-LD4-30-1STD-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
2FT LENGTH, 1-MODULE LED WITH P125 LENS
Light Source: (42) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

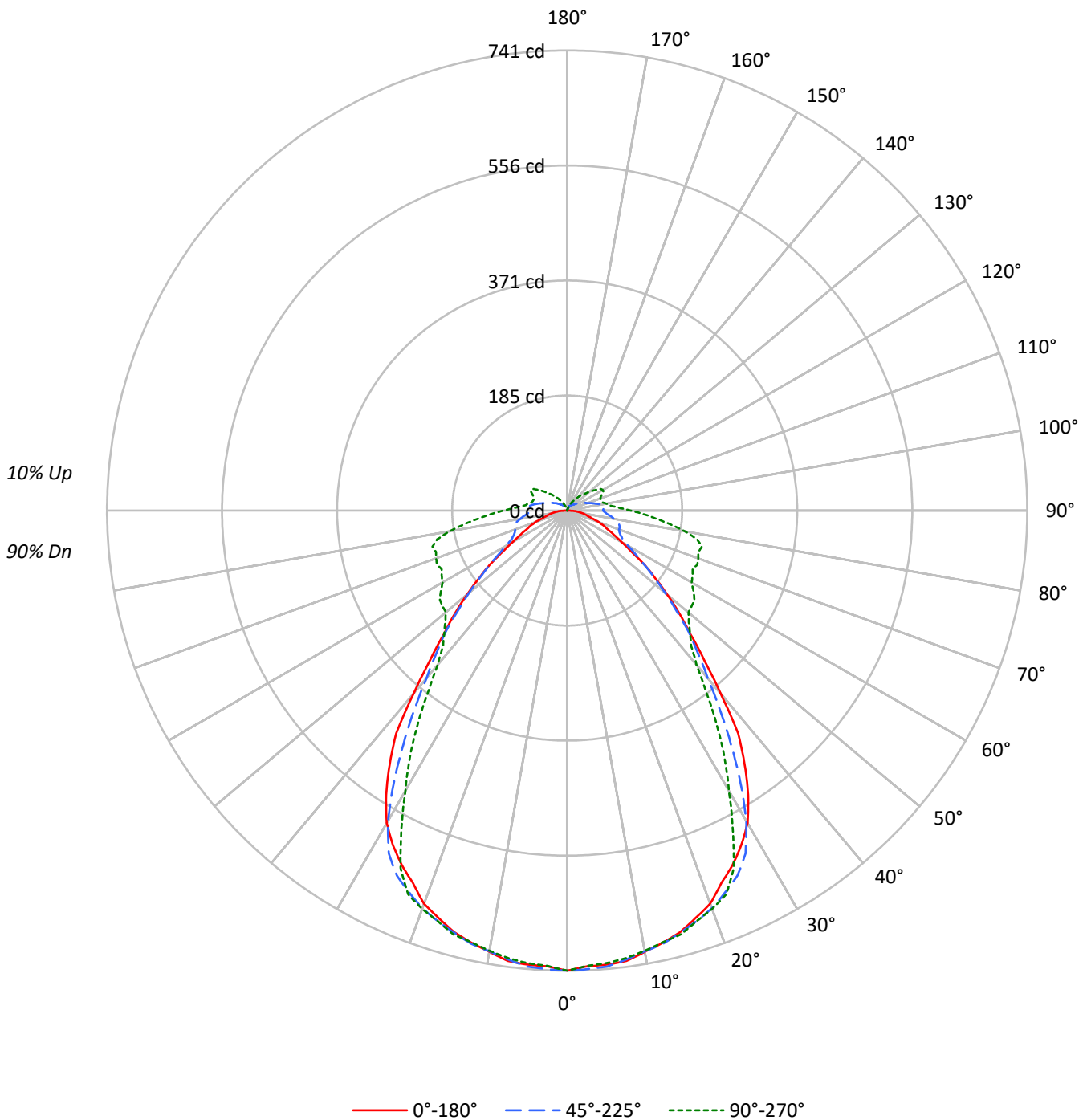
Lumens per Lamp: N/A
Luminaire Lumens: 1723.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.1 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 1.92' x H: 0.19')
CIE Type: Semi-Direct

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	62	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°	13315	13315	13315
5°	13127	12745	12538
10°	12941	12097	11878
15°	12740	11560	11326
20°	12443	11051	10711
25°	11949	10460	9836
30°	11412	9320	8030
35°	10231	7502	6482
40°	8319	5848	5062
45°	6482	4712	4448
50°	5273	3625	4157
55°	4181	2781	4223
60°	3116	2192	4082
65°	2548	1965	4147
70°	2228	1983	4456
75°	1785	2116	4814
80°	1711	2082	4527
85°	1441	2009	3723



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	4.0
10°-20°	198.5	11.5
20°-30°	291.1	16.9
30°-40°	287.8	16.7
40°-50°	216.8	12.6
50°-60°	156.3	9.1
60°-70°	123.6	7.2
70°-80°	119.0	6.9
80°-90°	87.6	5.1
90°-100°	52.7	3.1
100°-110°	38.9	2.3
110°-120°	33.0	1.9
120°-130°	24.0	1.4
130°-140°	13.7	0.8
140°-150°	7.2	0.4
150°-160°	2.8	0.2
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	559.3	32.5
0°-40°	847.1	49.2
0°-60°	1220.2	70.8
0°-90°	1550.3	90.0
90°-120°	124.6	7.2
90°-150°	169.5	9.8
90°-180°	173.0	10.0
0°-180°	1723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	741	741	741	741	741	
5°	734	734	737	735	732	70
15°	703	700	704	707	707	198
25°	630	634	649	646	635	290
35°	498	512	460	428	420	308
45°	280	274	277	286	280	221
55°	152	136	151	204	250	136
65°	72	73	95	173	223	74
75°	35	57	87	183	225	39
85°	15	27	65	149	142	14
90°	0	16	58	105	102	1
95°	0	14	60	79	76	0
105°	0	12	44	58	58	0
115°	0	11	29	64	62	0
125°	0	11	20	46	58	0
135°	0	9	13	29	37	0
145°	0	7	10	17	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°	740.9	740.9	740.9	740.9	740.9
2.5°	734.6	739.3	739.3	736.2	733.9
5°	733.9	733.9	737.0	735.4	731.5
7.5°	731.5	729.2	729.2	726.8	726.8
10°	721.4	721.4	720.6	723.7	719.8
12.5°	712.8	712.8	714.4	713.6	712.0
15°	702.7	700.3	703.5	706.6	706.6
17.5°	687.9	689.4	693.3	697.2	693.3
20°	673.8	673.8	681.6	682.4	682.4
22.5°	648.9	656.7	665.2	669.9	669.1
25°	630.1	634.0	648.9	645.7	634.8
27.5°	607.5	614.5	622.3	595.0	577.9
30°	581.0	584.9	577.1	531.9	521.0
32.5°	542.8	556.1	519.4	478.8	471.8
35°	498.3	512.4	460.1	428.2	419.6
37.5°	452.3	450.0	404.0	376.7	367.3
40°	383.7	376.7	352.5	339.2	324.4
42.5°	326.8	321.3	312.0	309.6	295.6
45°	280.0	273.7	276.9	286.2	280.0
47.5°	244.9	232.4	238.6	263.6	265.9
50°	210.6	194.2	205.9	240.2	255.0
52.5°	178.6	163.0	176.3	219.9	252.7
55°	152.1	135.7	151.3	203.5	250.3
57.5°	121.7	112.3	130.2	192.6	241.0
60°	101.4	94.4	113.1	184.8	231.6
62.5°	85.0	81.9	101.4	176.3	227.7
65°	72.5	73.3	95.1	173.1	223.0
67.5°	63.2	68.6	91.2	170.8	226.9
70°	53.8	64.7	88.9	175.5	224.6
72.5°	42.1	61.6	88.9	180.2	221.5
75°	35.1	56.9	86.6	183.3	224.6
77.5°	30.4	49.1	82.7	186.4	214.5
80°	25.7	42.1	76.4	184.8	192.6
82.5°	19.5	34.3	71.0	173.1	166.1
85°	14.8	27.3	64.7	149.0	141.9
87.5°	6.2	21.1	60.8	127.1	121.7
90°	0.0	16.4	57.7	105.3	102.2
92.5°	0.0	14.8	58.5	89.7	85.8
95°	0.0	14.0	60.1	78.8	75.6
97.5°	0.0	13.3	60.1	71.0	67.1
100°	0.0	13.3	55.4	64.7	64.0
102.5°	0.0	13.3	49.9	61.6	59.3
105°	0.0	12.5	44.5	57.7	57.7
107.5°	0.0	12.5	39.8	57.7	56.9
110°	0.0	11.7	35.1	60.8	56.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	11.7	32.0	64.0	58.5
115°	0.0	10.9	28.9	64.0	61.6
117.5°	0.0	10.9	26.5	60.1	65.5
120°	0.0	10.9	24.2	56.2	66.3
122.5°	0.0	10.9	22.6	51.5	64.7
125°	0.0	10.9	20.3	46.0	58.5
127.5°	0.0	10.9	17.9	41.3	53.0
130°	0.0	10.1	16.4	36.7	46.8
132.5°	0.0	10.1	14.8	32.0	41.3
135°	0.0	9.4	13.3	28.9	37.4
137.5°	0.0	8.6	12.5	25.0	32.8
140°	0.0	8.6	11.7	22.6	28.9
142.5°	0.0	7.8	10.9	19.5	25.7
145°	0.0	7.0	10.1	17.2	21.8
147.5°	0.0	6.2	9.4	14.8	18.7
150°	0.0	5.5	8.6	12.5	15.6
152.5°	0.0	4.7	7.8	10.9	12.5
155°	0.0	3.9	6.2	8.6	10.1
157.5°	0.0	3.1	4.7	6.2	7.0
160°	0.0	2.3	3.9	4.7	4.7
162.5°	0.0	1.6	2.3	2.3	2.3
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)