

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: P231873

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231873
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-LD4-35-1LO-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

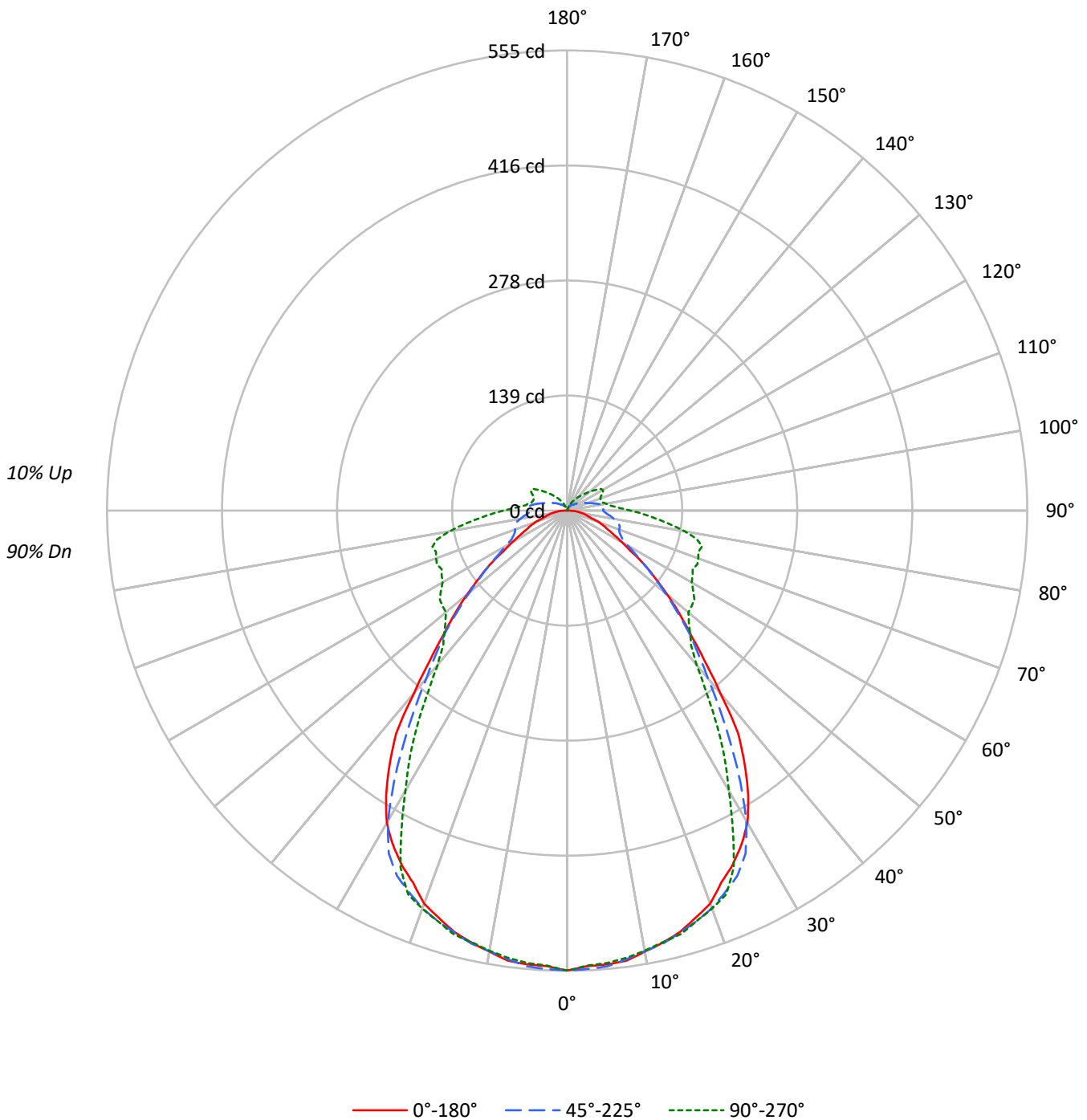
Lumens per Lamp: N/A
Luminaire Lumens: 1290.0 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.1 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 1.92' x H: 0.19')
CIE Type: Semi-Direct

Input Watts (W): 12.3
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°	9969	9969	9969
5°	9827	9542	9388
10°	9689	9057	8893
15°	9538	8655	8479
20°	9317	8273	8019
25°	8947	7831	7364
30°	8544	6979	6011
35°	7661	5617	4852
40°	6229	4378	3790
45°	4852	3528	3329
50°	3949	2713	3112
55°	3131	2082	3162
60°	2333	1641	3056
65°	1909	1471	3106
70°	1669	1486	3337
75°	1338	1583	3605
80°	1285	1558	3390
85°	1081	1506	2789



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	4.0
10°-20°	148.6	11.5
20°-30°	218.0	16.9
30°-40°	215.5	16.7
40°-50°	162.3	12.6
50°-60°	117.0	9.1
60°-70°	92.5	7.2
70°-80°	89.1	6.9
80°-90°	65.6	5.1
90°-100°	39.4	3.1
100°-110°	29.1	2.3
110°-120°	24.7	1.9
120°-130°	17.9	1.4
130°-140°	10.3	0.8
140°-150°	5.4	0.4
150°-160°	2.1	0.2
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	418.8	32.5
0°-40°	634.3	49.2
0°-60°	913.6	70.8
0°-90°	1160.8	90.0
90°-120°	93.3	7.2
90°-150°	126.9	9.8
90°-180°	129.0	10.0
0°-180°	1290.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	555	555	555	555	555	
5°	549	549	552	551	548	52
15°	526	524	527	529	529	148
25°	472	475	486	484	475	217
35°	373	384	344	321	314	231
45°	210	205	207	214	210	165
55°	114	102	113	152	187	101
65°	54	55	71	130	167	55
75°	26	43	65	137	168	29
85°	11	20	48	112	106	10
90°	0	12	43	79	76	1
95°	0	10	45	59	57	0
105°	0	9	33	43	43	0
115°	0	8	22	48	46	0
125°	0	8	15	34	44	0
135°	0	7	10	22	28	0
145°	0	5	8	13	16	0
155°	0	3	5	6	8	0
165°	0	1	1	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°	554.7	554.7	554.7	554.7	554.7
2.5°	550.0	553.5	553.5	551.2	549.4
5°	549.4	549.4	551.8	550.6	547.7
7.5°	547.7	545.9	545.9	544.2	544.2
10°	540.1	540.1	539.5	541.9	538.9
12.5°	533.7	533.7	534.8	534.3	533.1
15°	526.1	524.3	526.7	529.0	529.0
17.5°	515.0	516.2	519.1	522.0	519.1
20°	504.5	504.5	510.3	510.9	510.9
22.5°	485.8	491.6	498.1	501.6	501.0
25°	471.8	474.7	485.8	483.5	475.3
27.5°	454.9	460.1	465.9	445.5	432.7
30°	435.0	437.9	432.1	398.2	390.0
32.5°	406.4	416.3	388.9	358.5	353.3
35°	373.1	383.6	344.5	320.6	314.1
37.5°	338.7	336.9	302.5	282.0	275.0
40°	287.3	282.0	263.9	254.0	242.9
42.5°	244.7	240.6	233.6	231.8	221.3
45°	209.6	204.9	207.3	214.3	209.6
47.5°	183.3	174.0	178.7	197.4	199.1
50°	157.7	145.4	154.1	179.8	190.9
52.5°	133.7	122.0	132.0	164.7	189.2
55°	113.9	101.6	113.3	152.4	187.4
57.5°	91.1	84.1	97.5	144.2	180.4
60°	75.9	70.7	84.7	138.4	173.4
62.5°	63.6	61.3	75.9	132.0	170.5
65°	54.3	54.9	71.2	129.6	167.0
67.5°	47.3	51.4	68.3	127.9	169.9
70°	40.3	48.5	66.6	131.4	168.2
72.5°	31.5	46.1	66.6	134.9	165.8
75°	26.3	42.6	64.8	137.2	168.2
77.5°	22.8	36.8	61.9	139.5	160.6
80°	19.3	31.5	57.2	138.4	144.2
82.5°	14.6	25.7	53.1	129.6	124.4
85°	11.1	20.4	48.5	111.5	106.3
87.5°	4.7	15.8	45.5	95.2	91.1
90°	0.0	12.3	43.2	78.8	76.5
92.5°	0.0	11.1	43.8	67.1	64.2
95°	0.0	10.5	45.0	59.0	56.6
97.5°	0.0	9.9	45.0	53.1	50.2
100°	0.0	9.9	41.5	48.5	47.9
102.5°	0.0	9.9	37.4	46.1	44.4
105°	0.0	9.3	33.3	43.2	43.2
107.5°	0.0	9.3	29.8	43.2	42.6
110°	0.0	8.8	26.3	45.5	42.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	8.8	23.9	47.9	43.8
115°	0.0	8.2	21.6	47.9	46.1
117.5°	0.0	8.2	19.9	45.0	49.0
120°	0.0	8.2	18.1	42.0	49.6
122.5°	0.0	8.2	16.9	38.5	48.5
125°	0.0	8.2	15.2	34.4	43.8
127.5°	0.0	8.2	13.4	30.9	39.7
130°	0.0	7.6	12.3	27.4	35.0
132.5°	0.0	7.6	11.1	23.9	30.9
135°	0.0	7.0	9.9	21.6	28.0
137.5°	0.0	6.4	9.3	18.7	24.5
140°	0.0	6.4	8.8	16.9	21.6
142.5°	0.0	5.8	8.2	14.6	19.3
145°	0.0	5.3	7.6	12.8	16.3
147.5°	0.0	4.7	7.0	11.1	14.0
150°	0.0	4.1	6.4	9.3	11.7
152.5°	0.0	3.5	5.8	8.2	9.3
155°	0.0	2.9	4.7	6.4	7.6
157.5°	0.0	2.3	3.5	4.7	5.3
160°	0.0	1.8	2.9	3.5	3.5
162.5°	0.0	1.2	1.8	1.8	1.8
165°	0.0	0.6	1.2	0.6	0.6
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)