

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: P231879

Luminaire Tested: **FVS4M-2-LD4-50-1STD-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231879
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-LD4-50-1STD-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
2FT LENGTH, 1-MODULE LED WITH P125 LENS
Light Source: (42) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

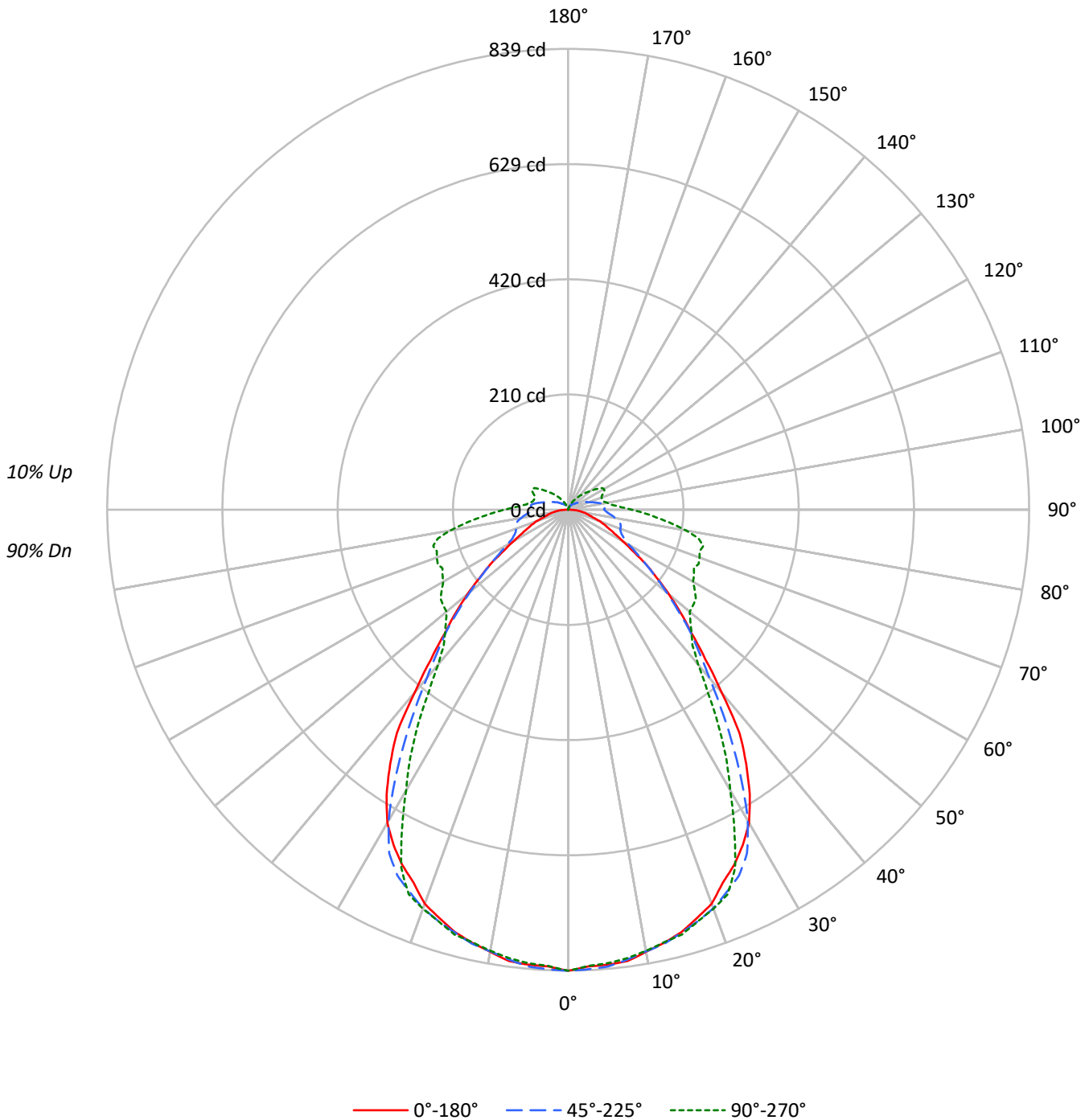
Lumens per Lamp: N/A
Luminaire Lumens: 1952.0 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.1 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 1.92' x H: 0.19')
CIE Type: Semi-Direct

Input Watts (W): 16.99
Input Voltage (V): 120
Input Current (A_{in}): 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°	15085	15085	15085
5°	14871	14438	14206
10°	14661	13705	13458
15°	14433	13095	12831
20°	14098	12519	12135
25°	13538	11850	11143
30°	12928	10559	9096
35°	11592	8500	7343
40°	9424	6626	5734
45°	7343	5338	5039
50°	5974	4107	4710
55°	4737	3150	4785
60°	3531	2482	4625
65°	2889	2227	4699
70°	2526	2246	5049
75°	2024	2397	5455
80°	1944	2359	5129
85°	1635	2276	4219



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	4.0
10°-20°	224.9	11.5
20°-30°	329.8	16.9
30°-40°	326.1	16.7
40°-50°	245.6	12.6
50°-60°	177.0	9.1
60°-70°	140.0	7.2
70°-80°	134.8	6.9
80°-90°	99.2	5.1
90°-100°	59.7	3.1
100°-110°	44.0	2.3
110°-120°	37.4	1.9
120°-130°	27.2	1.4
130°-140°	15.6	0.8
140°-150°	8.2	0.4
150°-160°	3.2	0.2
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	633.7	32.5
0°-40°	959.7	49.2
0°-60°	1382.4	70.8
0°-90°	1756.4	90.0
90°-120°	141.1	7.2
90°-150°	192.0	9.8
90°-180°	196.0	10.0
0°-180°	1952.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	839	839	839	839	839	
5°	831	831	835	833	829	79
15°	796	793	797	800	800	224
25°	714	718	735	732	719	328
35°	565	580	521	485	475	349
45°	317	310	314	324	317	250
55°	172	154	171	231	284	153
65°	82	83	108	196	253	84
75°	40	64	98	208	254	44
85°	17	31	73	169	161	16
90°	0	19	65	119	116	1
95°	0	16	68	89	86	0
105°	0	14	50	65	65	0
115°	0	12	33	72	70	0
125°	0	12	23	52	66	0
135°	0	11	15	33	42	0
145°	0	8	12	19	25	0
155°	0	4	7	10	12	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°	839.4	839.4	839.4	839.4	839.4
2.5°	832.3	837.6	837.6	834.1	831.4
5°	831.4	831.4	834.9	833.2	828.8
7.5°	828.8	826.1	826.1	823.5	823.5
10°	817.3	817.3	816.4	819.9	815.5
12.5°	807.5	807.5	809.3	808.4	806.7
15°	796.1	793.4	796.9	800.5	800.5
17.5°	779.3	781.0	785.5	789.9	785.5
20°	763.4	763.4	772.2	773.1	773.1
22.5°	735.1	743.9	753.7	759.0	758.1
25°	713.9	718.3	735.1	731.6	719.2
27.5°	688.3	696.2	705.1	674.1	654.7
30°	658.2	662.6	653.8	602.6	590.2
32.5°	614.9	630.0	588.4	542.5	534.5
35°	564.6	580.5	521.3	485.1	475.3
37.5°	512.4	509.8	457.7	426.7	416.1
40°	434.7	426.7	399.4	384.3	367.5
42.5°	370.2	364.0	353.4	350.8	334.9
45°	317.2	310.1	313.7	324.3	317.2
47.5°	277.4	263.3	270.4	298.6	301.3
50°	238.6	220.0	233.3	272.1	288.9
52.5°	202.3	184.7	199.7	249.2	286.3
55°	172.3	153.7	171.4	230.6	283.6
57.5°	137.8	127.2	147.5	218.2	273.0
60°	114.9	106.9	128.1	209.4	262.4
62.5°	96.3	92.8	114.9	199.7	258.0
65°	82.2	83.1	107.8	196.1	252.7
67.5°	71.6	77.8	103.4	193.5	257.1
70°	61.0	73.3	100.7	198.8	254.5
72.5°	47.7	69.8	100.7	204.1	250.9
75°	39.8	64.5	98.1	207.6	254.5
77.5°	34.5	55.7	93.7	211.2	243.0
80°	29.2	47.7	86.6	209.4	218.2
82.5°	22.1	38.9	80.4	196.1	188.2
85°	16.8	30.9	73.3	168.8	160.8
87.5°	7.1	23.9	68.9	144.0	137.8
90°	0.0	18.6	65.4	119.3	115.7
92.5°	0.0	16.8	66.3	101.6	97.2
95°	0.0	15.9	68.0	89.2	85.7
97.5°	0.0	15.0	68.0	80.4	76.0
100°	0.0	15.0	62.7	73.3	72.4
102.5°	0.0	15.0	56.5	69.8	67.1
105°	0.0	14.1	50.4	65.4	65.4
107.5°	0.0	14.1	45.1	65.4	64.5
110°	0.0	13.3	39.8	68.9	64.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	13.3	36.2	72.4	66.3
115°	0.0	12.4	32.7	72.4	69.8
117.5°	0.0	12.4	30.0	68.0	74.2
120°	0.0	12.4	27.4	63.6	75.1
122.5°	0.0	12.4	25.6	58.3	73.3
125°	0.0	12.4	23.0	52.1	66.3
127.5°	0.0	12.4	20.3	46.8	60.1
130°	0.0	11.5	18.6	41.5	53.0
132.5°	0.0	11.5	16.8	36.2	46.8
135°	0.0	10.6	15.0	32.7	42.4
137.5°	0.0	9.7	14.1	28.3	37.1
140°	0.0	9.7	13.3	25.6	32.7
142.5°	0.0	8.8	12.4	22.1	29.2
145°	0.0	8.0	11.5	19.4	24.7
147.5°	0.0	7.1	10.6	16.8	21.2
150°	0.0	6.2	9.7	14.1	17.7
152.5°	0.0	5.3	8.8	12.4	14.1
155°	0.0	4.4	7.1	9.7	11.5
157.5°	0.0	3.5	5.3	7.1	8.0
160°	0.0	2.7	4.4	5.3	5.3
162.5°	0.0	1.8	2.7	2.7	2.7
165°	0.0	0.9	1.8	0.9	0.9
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)