

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: P231881

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231881
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-LD4-35-1HI-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

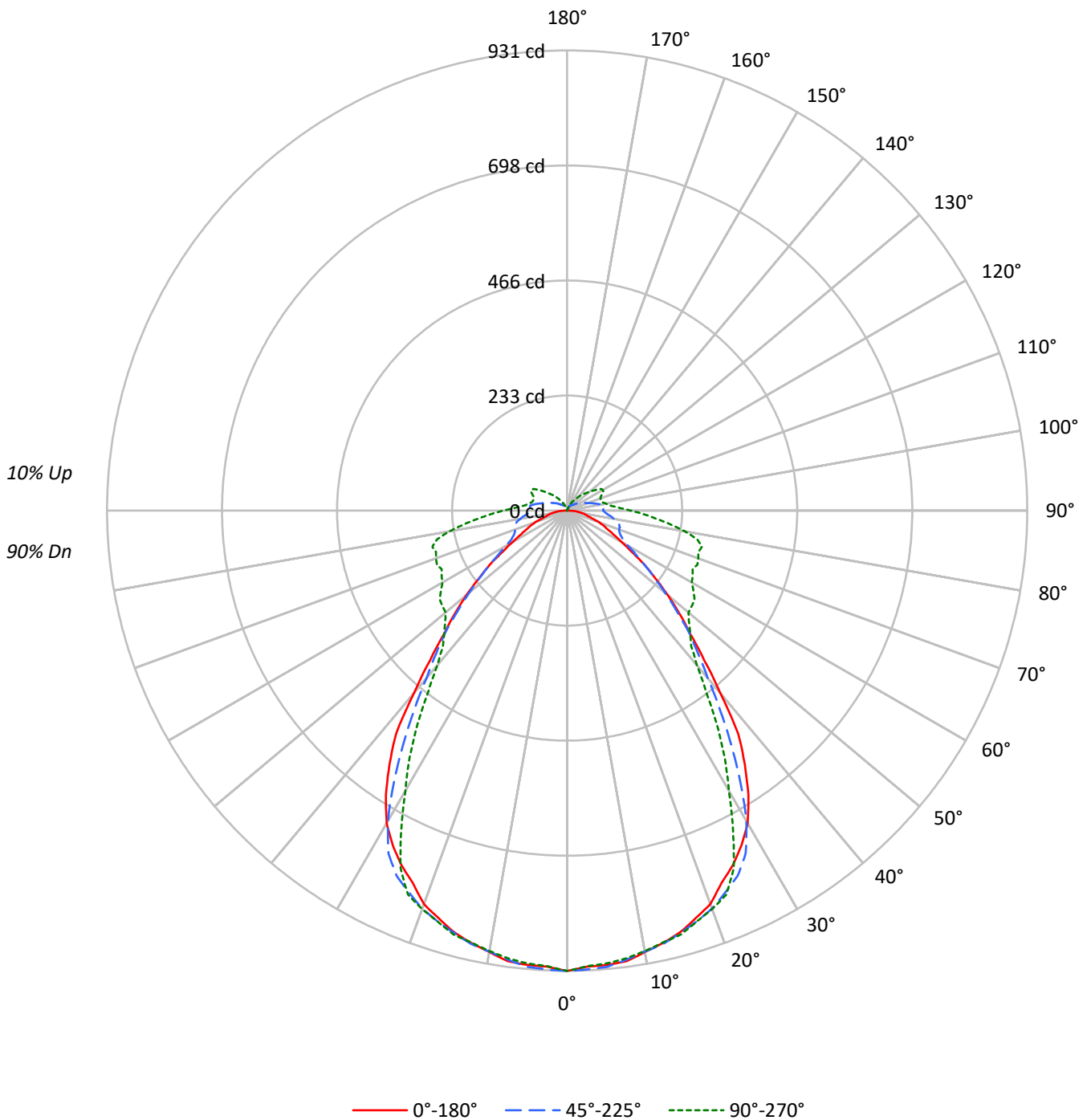
Lumens per Lamp: N/A
Luminaire Lumens: 2166.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.1 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 1.92' x H: 0.19')
CIE Type: Semi-Direct

Input Watts (W): 22.2
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°	16738	16738	16738
5°	16502	16022	15762
10°	16269	15208	14933
15°	16014	14531	14236
20°	15643	13893	13465
25°	15023	13149	12364
30°	14346	11717	10093
35°	12863	9431	8149
40°	10458	7351	6363
45°	8149	5922	5591
50°	6628	4556	5226
55°	5256	3496	5310
60°	3919	2756	5132
65°	3206	2471	5214
70°	2800	2494	5603
75°	2243	2659	6053
80°	2157	2618	5693
85°	1811	2528	4681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	4.0
10°-20°	249.6	11.5
20°-30°	366.0	16.9
30°-40°	361.8	16.7
40°-50°	272.5	12.6
50°-60°	196.5	9.1
60°-70°	155.4	7.2
70°-80°	149.6	6.9
80°-90°	110.1	5.1
90°-100°	66.2	3.1
100°-110°	48.8	2.3
110°-120°	41.5	1.9
120°-130°	30.1	1.4
130°-140°	17.3	0.8
140°-150°	9.1	0.4
150°-160°	3.5	0.2
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	703.1	32.5
0°-40°	1065.0	49.2
0°-60°	1534.0	70.8
0°-90°	1949.0	90.0
90°-120°	156.6	7.2
90°-150°	213.0	9.8
90°-180°	217.0	10.0
0°-180°	2166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	931	931	931	931	931	
5°	923	923	926	924	920	88
15°	883	880	884	888	888	249
25°	792	797	816	812	798	364
35°	626	644	578	538	528	387
45°	352	344	348	360	352	277
55°	191	171	190	256	315	170
65°	91	92	120	218	280	93
75°	44	72	109	230	282	49
85°	19	34	81	187	178	17
90°	0	21	72	132	128	1
95°	0	18	76	99	95	0
105°	0	16	56	72	72	0
115°	0	14	36	80	78	0
125°	0	14	26	58	74	0
135°	0	12	17	36	47	0
145°	0	9	13	22	28	0
155°	0	5	8	11	13	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°	931.4	931.4	931.4	931.4	931.4
2.5°	923.5	929.4	929.4	925.5	922.6
5°	922.6	922.6	926.5	924.5	919.6
7.5°	919.6	916.7	916.7	913.7	913.7
10°	906.9	906.9	905.9	909.8	904.9
12.5°	896.1	896.1	898.0	897.1	895.1
15°	883.3	880.4	884.3	888.2	888.2
17.5°	864.7	866.7	871.6	876.5	871.6
20°	847.1	847.1	856.9	857.8	857.8
22.5°	815.7	825.5	836.3	842.2	841.2
25°	792.2	797.1	815.7	811.8	798.0
27.5°	763.7	772.6	782.4	748.0	726.5
30°	730.4	735.3	725.5	668.6	654.9
32.5°	682.4	699.0	652.9	602.0	593.1
35°	626.5	644.1	578.4	538.2	527.5
37.5°	568.6	565.7	507.8	473.5	461.8
40°	482.4	473.5	443.1	426.5	407.8
42.5°	410.8	403.9	392.2	389.2	371.6
45°	352.0	344.1	348.0	359.8	352.0
47.5°	307.8	292.2	300.0	331.4	334.3
50°	264.7	244.1	258.8	302.0	320.6
52.5°	224.5	204.9	221.6	276.5	317.6
55°	191.2	170.6	190.2	255.9	314.7
57.5°	152.9	141.2	163.7	242.2	302.9
60°	127.5	118.6	142.2	232.4	291.2
62.5°	106.9	102.9	127.5	221.6	286.3
65°	91.2	92.2	119.6	217.6	280.4
67.5°	79.4	86.3	114.7	214.7	285.3
70°	67.6	81.4	111.8	220.6	282.4
72.5°	52.9	77.5	111.8	226.5	278.4
75°	44.1	71.6	108.8	230.4	282.4
77.5°	38.2	61.8	103.9	234.3	269.6
80°	32.4	52.9	96.1	232.4	242.2
82.5°	24.5	43.1	89.2	217.6	208.8
85°	18.6	34.3	81.4	187.3	178.4
87.5°	7.8	26.5	76.5	159.8	152.9
90°	0.0	20.6	72.5	132.4	128.4
92.5°	0.0	18.6	73.5	112.7	107.8
95°	0.0	17.6	75.5	99.0	95.1
97.5°	0.0	16.7	75.5	89.2	84.3
100°	0.0	16.7	69.6	81.4	80.4
102.5°	0.0	16.7	62.7	77.5	74.5
105°	0.0	15.7	55.9	72.5	72.5
107.5°	0.0	15.7	50.0	72.5	71.6
110°	0.0	14.7	44.1	76.5	71.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	14.7	40.2	80.4	73.5
115°	0.0	13.7	36.3	80.4	77.5
117.5°	0.0	13.7	33.3	75.5	82.4
120°	0.0	13.7	30.4	70.6	83.3
122.5°	0.0	13.7	28.4	64.7	81.4
125°	0.0	13.7	25.5	57.8	73.5
127.5°	0.0	13.7	22.5	52.0	66.7
130°	0.0	12.7	20.6	46.1	58.8
132.5°	0.0	12.7	18.6	40.2	52.0
135°	0.0	11.8	16.7	36.3	47.1
137.5°	0.0	10.8	15.7	31.4	41.2
140°	0.0	10.8	14.7	28.4	36.3
142.5°	0.0	9.8	13.7	24.5	32.4
145°	0.0	8.8	12.7	21.6	27.5
147.5°	0.0	7.8	11.8	18.6	23.5
150°	0.0	6.9	10.8	15.7	19.6
152.5°	0.0	5.9	9.8	13.7	15.7
155°	0.0	4.9	7.8	10.8	12.7
157.5°	0.0	3.9	5.9	7.8	8.8
160°	0.0	2.9	4.9	5.9	5.9
162.5°	0.0	2.0	2.9	2.9	2.9
165°	0.0	1.0	2.0	1.0	1.0
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)