

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: P231882

Luminaire Tested: **FVS4M-2-LD4-40-1HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231882
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-LD4-40-1HI-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
2FT LENGTH, 1-MODULE LED WITH P125 LENS
Light Source: (42) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

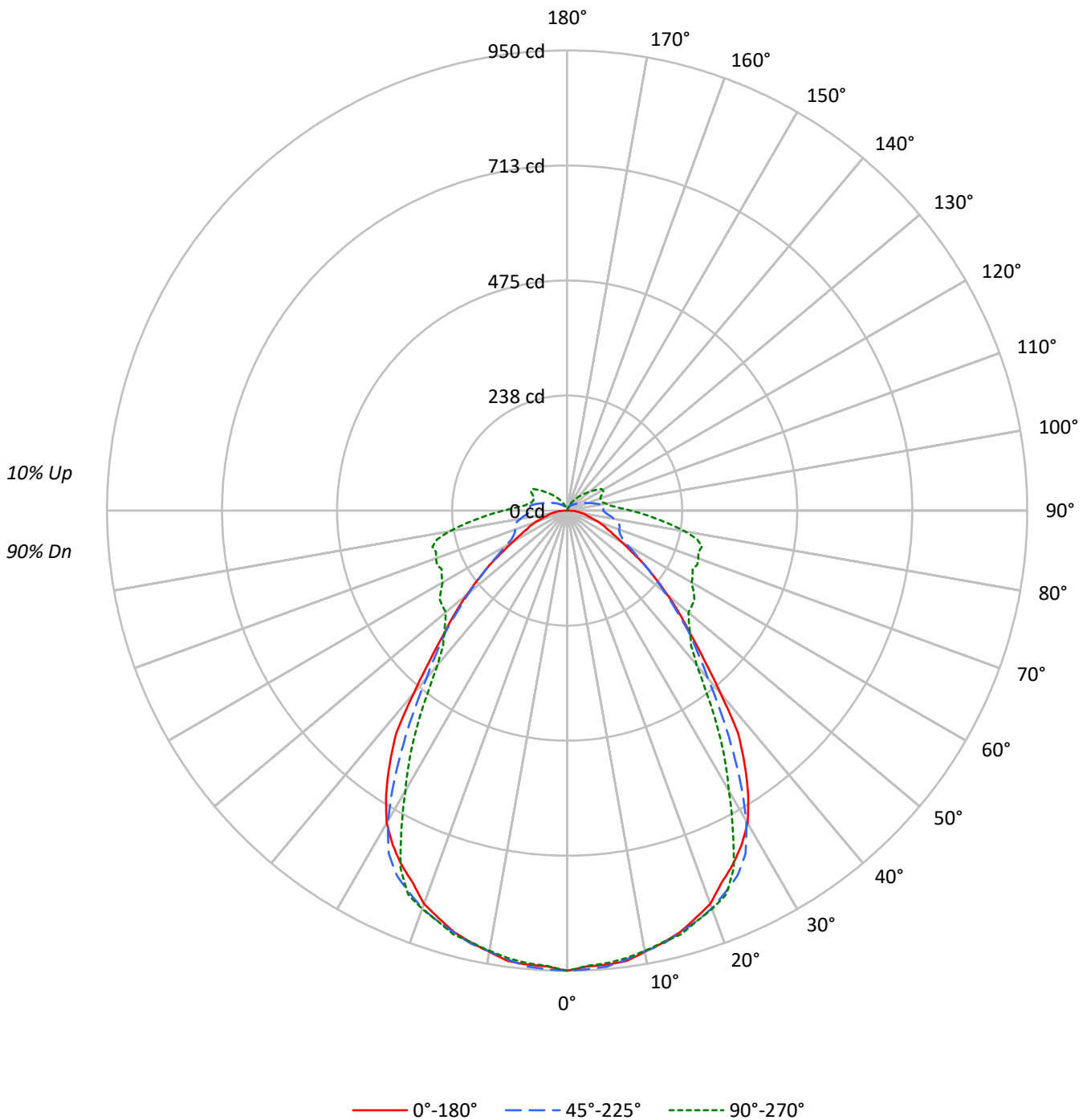
Lumens per Lamp: N/A
Luminaire Lumens: 2209.1 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.1 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 1.92' x H: 0.19')
CIE Type: Semi-Direct

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	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	39	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°	17071	17071	17071
5°	16830	16340	16076
10°	16592	15510	15230
15°	16333	14820	14520
20°	15954	14168	13733
25°	15321	13410	12610
30°	14631	11950	10294
35°	13118	9618	8310
40°	10664	7497	6490
45°	8309	6040	5701
50°	6760	4648	5331
55°	5361	3566	5416
60°	3995	2810	5235
65°	3269	2521	5318
70°	2858	2543	5714
75°	2289	2712	6173
80°	2197	2670	5806
85°	1850	2577	4776



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	4.0
10°-20°	254.5	11.5
20°-30°	373.2	16.9
30°-40°	369.0	16.7
40°-50°	277.9	12.6
50°-60°	200.4	9.1
60°-70°	158.5	7.2
70°-80°	152.6	6.9
80°-90°	112.3	5.1
90°-100°	67.6	3.1
100°-110°	49.8	2.3
110°-120°	42.3	1.9
120°-130°	30.7	1.4
130°-140°	17.6	0.8
140°-150°	9.2	0.4
150°-160°	3.6	0.2
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	717.1	32.5
0°-40°	1086.1	49.2
0°-60°	1564.4	70.8
0°-90°	1987.8	90.0
90°-120°	159.7	7.2
90°-150°	217.3	9.8
90°-180°	221.0	10.0
0°-180°	2209.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	941	941	945	943	938	89
15°	901	898	902	906	906	254
25°	808	813	832	828	814	371
35°	639	657	590	549	538	395
45°	359	351	355	367	359	283
55°	195	174	194	261	321	174
65°	93	94	122	222	286	95
75°	45	73	111	235	288	50
85°	19	35	83	191	182	18
90°	0	21	74	135	131	1
95°	0	18	77	101	97	0
105°	0	16	57	74	74	0
115°	0	14	37	82	79	0
125°	0	14	26	59	75	0
135°	0	12	17	37	48	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°	949.9	949.9	949.9	949.9	949.9
2.5°	941.9	947.9	947.9	943.9	940.9
5°	940.9	940.9	944.9	942.9	937.9
7.5°	937.9	934.9	934.9	931.9	931.9
10°	924.9	924.9	923.9	927.9	922.9
12.5°	913.9	913.9	915.9	914.9	912.9
15°	900.9	897.9	901.9	905.9	905.9
17.5°	881.9	883.9	888.9	893.9	888.9
20°	863.9	863.9	873.9	874.9	874.9
22.5°	831.9	841.9	852.9	858.9	857.9
25°	807.9	812.9	831.9	827.9	813.9
27.5°	778.9	787.9	797.9	762.9	740.9
30°	744.9	749.9	739.9	681.9	667.9
32.5°	695.9	712.9	665.9	613.9	604.9
35°	638.9	656.9	589.9	548.9	537.9
37.5°	579.9	576.9	517.9	482.9	470.9
40°	491.9	482.9	451.9	434.9	415.9
42.5°	418.9	411.9	399.9	396.9	378.9
45°	358.9	350.9	354.9	366.9	358.9
47.5°	314.0	298.0	306.0	338.0	341.0
50°	270.0	249.0	264.0	308.0	327.0
52.5°	229.0	209.0	226.0	282.0	324.0
55°	195.0	174.0	194.0	261.0	321.0
57.5°	156.0	144.0	167.0	247.0	309.0
60°	130.0	121.0	145.0	237.0	297.0
62.5°	109.0	105.0	130.0	226.0	292.0
65°	93.0	94.0	122.0	222.0	286.0
67.5°	81.0	88.0	117.0	219.0	291.0
70°	69.0	83.0	114.0	225.0	288.0
72.5°	54.0	79.0	114.0	231.0	284.0
75°	45.0	73.0	111.0	235.0	288.0
77.5°	39.0	63.0	106.0	239.0	275.0
80°	33.0	54.0	98.0	237.0	247.0
82.5°	25.0	44.0	91.0	222.0	213.0
85°	19.0	35.0	83.0	191.0	182.0
87.5°	8.0	27.0	78.0	163.0	156.0
90°	0.0	21.0	74.0	135.0	131.0
92.5°	0.0	19.0	75.0	115.0	110.0
95°	0.0	18.0	77.0	101.0	97.0
97.5°	0.0	17.0	77.0	91.0	86.0
100°	0.0	17.0	71.0	83.0	82.0
102.5°	0.0	17.0	64.0	79.0	76.0
105°	0.0	16.0	57.0	74.0	74.0
107.5°	0.0	16.0	51.0	74.0	73.0
110°	0.0	15.0	45.0	78.0	73.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	15.0	41.0	82.0	75.0
115°	0.0	14.0	37.0	82.0	79.0
117.5°	0.0	14.0	34.0	77.0	84.0
120°	0.0	14.0	31.0	72.0	85.0
122.5°	0.0	14.0	29.0	66.0	83.0
125°	0.0	14.0	26.0	59.0	75.0
127.5°	0.0	14.0	23.0	53.0	68.0
130°	0.0	13.0	21.0	47.0	60.0
132.5°	0.0	13.0	19.0	41.0	53.0
135°	0.0	12.0	17.0	37.0	48.0
137.5°	0.0	11.0	16.0	32.0	42.0
140°	0.0	11.0	15.0	29.0	37.0
142.5°	0.0	10.0	14.0	25.0	33.0
145°	0.0	9.0	13.0	22.0	28.0
147.5°	0.0	8.0	12.0	19.0	24.0
150°	0.0	7.0	11.0	16.0	20.0
152.5°	0.0	6.0	10.0	14.0	16.0
155°	0.0	5.0	8.0	11.0	13.0
157.5°	0.0	4.0	6.0	8.0	9.0
160°	0.0	3.0	5.0	6.0	6.0
162.5°	0.0	2.0	3.0	3.0	3.0
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)