

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: P232025

Luminaire Tested: **FVS4M-3-LD4-35-1HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4M-3-LD4-35-1HI-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
3FT LENGTH, 1-MODULE LED WITH P125 LENS
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

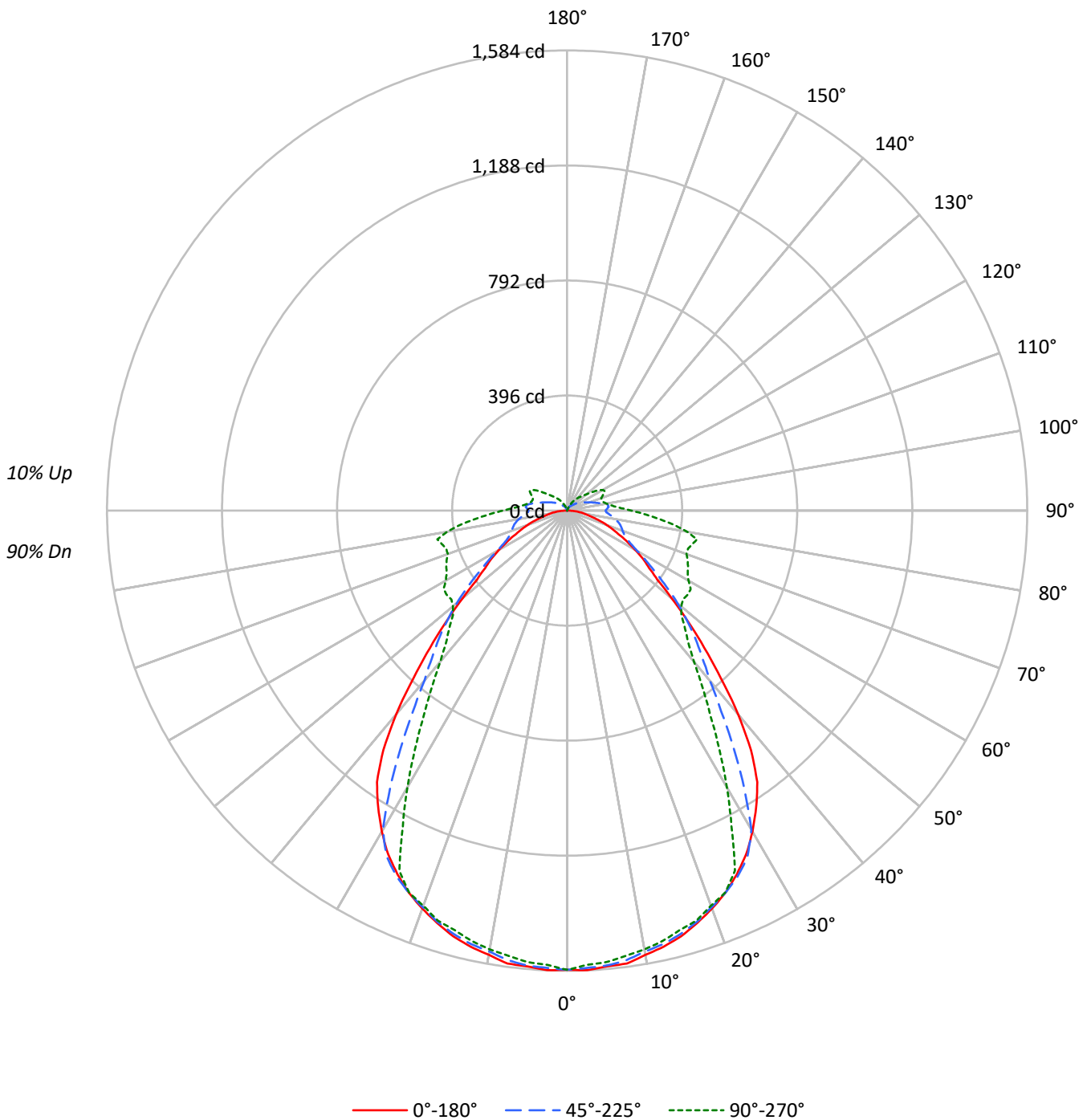
Lumens per Lamp: N/A
Luminaire Lumens: 3770.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

Input Watts (W): 36.3
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

TEST NUMBER: P232025

CATALOG NUMBER: FVS4M-3-LD4-35-1HI-P125-UNV-EDC1

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	71	76	72	68	72	68	65	63
3	89	79	71	65	86	77	69	64	72	66	61	68	63	59	64	60	57	54
4	82	71	62	56	79	69	61	55	65	59	53	62	56	52	58	54	50	48
5	76	64	56	49	73	62	54	49	59	52	47	56	50	46	53	48	44	42
6	71	58	50	44	68	57	49	43	54	47	42	51	45	41	49	44	40	38
7	66	53	45	39	64	52	44	39	50	43	38	47	41	37	45	40	36	34
8	62	49	41	35	60	48	40	35	46	39	34	44	38	33	42	37	33	31
9	58	45	37	32	56	44	37	32	42	36	31	41	35	31	39	34	30	28
10	54	42	34	29	53	41	34	29	39	33	29	38	32	28	36	31	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18666	18666	18666
5°	18563	17898	17571
10°	18416	17070	16630
15°	18232	16387	15750
20°	17904	15596	14928
25°	17478	14851	13916
30°	16774	13611	11133
35°	15745	10850	8719
40°	13396	8457	6957
45°	10478	7098	5987
50°	8015	5843	5493
55°	6491	4567	5609
60°	5751	3627	5587
65°	4887	3125	5608
70°	4229	3060	5701
75°	3500	3136	6284
80°	2930	3129	6468
85°	2296	3087	5394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	4.0
10°-20°	425.2	11.3
20°-30°	628.7	16.7
30°-40°	628.8	16.7
40°-50°	484.8	12.9
50°-60°	359.5	9.5
60°-70°	276.0	7.3
70°-80°	249.1	6.6
80°-90°	194.1	5.1
90°-100°	118.6	3.1
100°-110°	87.4	2.3
110°-120°	73.4	1.9
120°-130°	49.2	1.3
130°-140°	27.2	0.7
140°-150°	13.6	0.4
150°-160°	4.9	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	1202.8	31.9
0°-40°	1831.6	48.6
0°-60°	2675.9	71.0
0°-90°	3395.1	90.1
90°-120°	279.4	7.4
90°-150°	369.5	9.8
90°-180°	375.0	9.9
0°-180°	3770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1581	1581	1581	1581	1581	
5°	1575	1569	1572	1567	1560	150
15°	1517	1505	1509	1505	1495	427
25°	1382	1382	1389	1391	1367	635
35°	1141	1151	1000	895	859	700
45°	668	634	625	610	574	519
55°	344	348	371	444	506	316
65°	199	178	224	368	459	200
75°	95	123	189	358	446	102
85°	29	71	145	328	313	30
90°	0	39	132	231	221	2
95°	0	33	143	172	164	0
105°	0	28	103	129	126	0
115°	0	24	67	141	139	0
125°	0	22	45	92	117	0
135°	0	18	28	57	70	0
145°	0	12	19	33	43	0
155°	0	5	11	17	20	0
165°	1	1	1	1	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P232025

CATALOG NUMBER: FVS4M-3-LD4-35-1HI-P125-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1580.6	1580.6	1580.6	1580.6	1580.6
2.5°	1583.5	1576.7	1575.7	1570.8	1564.9
5°	1574.7	1568.8	1571.8	1566.9	1560.0
7.5°	1572.7	1563.9	1561.0	1547.3	1546.3
10°	1553.1	1551.2	1541.4	1541.4	1533.5
12.5°	1537.4	1529.6	1528.6	1523.7	1517.8
15°	1516.9	1505.1	1509.0	1505.1	1495.3
17.5°	1488.4	1481.6	1484.5	1485.5	1479.6
20°	1458.0	1458.0	1453.1	1461.0	1447.2
22.5°	1423.7	1423.7	1423.7	1429.6	1422.7
25°	1381.5	1382.5	1389.4	1391.4	1366.8
27.5°	1334.5	1340.4	1344.3	1282.5	1225.6
30°	1275.7	1285.5	1268.8	1142.3	1099.2
32.5°	1210.9	1224.7	1134.5	1019.7	974.6
35°	1141.3	1151.1	1000.1	895.2	858.9
37.5°	1039.3	1038.4	871.7	798.1	762.8
40°	915.8	888.3	764.8	708.9	678.5
42.5°	783.4	746.2	689.3	651.1	616.7
45°	667.7	634.4	624.6	609.9	573.6
47.5°	561.8	551.1	559.9	572.6	533.4
50°	469.7	476.5	496.1	521.6	512.8
52.5°	392.2	410.8	431.4	480.5	502.0
55°	344.2	348.1	370.6	444.2	505.9
57.5°	309.8	293.2	323.6	415.7	504.0
60°	270.6	244.1	278.5	394.2	482.4
62.5°	233.4	203.0	246.1	380.4	467.7
65°	199.0	177.5	224.5	367.7	458.9
67.5°	170.6	158.8	211.8	356.9	449.1
70°	144.1	142.2	203.0	351.0	437.3
72.5°	118.6	129.4	196.1	350.0	436.3
75°	95.1	122.6	189.2	357.9	446.1
77.5°	73.5	116.7	179.4	373.6	457.9
80°	58.8	103.9	168.6	382.4	418.7
82.5°	45.1	87.3	156.9	374.6	367.7
85°	29.4	70.6	145.1	328.5	312.8
87.5°	13.7	52.0	135.3	278.5	263.8
90°	0.0	39.2	132.4	231.4	220.6
92.5°	0.0	35.3	137.3	196.1	186.3
95°	0.0	33.3	143.2	171.6	163.7
97.5°	0.0	32.4	142.2	154.9	148.1
100°	0.0	31.4	130.4	142.2	138.3
102.5°	0.0	29.4	116.7	133.4	129.4
105°	0.0	27.5	103.0	129.4	125.5
107.5°	0.0	26.5	92.2	132.4	124.5
110°	0.0	24.5	82.4	138.3	124.5



TEST NUMBER: P232025

CATALOG NUMBER: FVS4M-3-LD4-35-1HI-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	23.5	73.5	144.1	131.4
115°	0.0	23.5	66.7	141.2	139.2
117.5°	0.0	22.6	60.8	131.4	145.1
120°	0.0	22.6	54.9	118.6	142.2
122.5°	0.0	21.6	50.0	105.9	130.4
125°	0.0	21.6	45.1	92.2	116.7
127.5°	0.0	20.6	41.2	82.4	100.0
130°	0.0	19.6	36.3	72.6	87.3
132.5°	0.0	19.6	32.4	64.7	77.5
135°	0.0	17.6	28.4	56.9	69.6
137.5°	0.0	16.7	25.5	51.0	62.8
140°	0.0	14.7	23.5	44.1	55.9
142.5°	0.0	13.7	20.6	38.2	50.0
145°	0.0	11.8	18.6	33.3	43.1
147.5°	0.0	9.8	16.7	29.4	36.3
150°	0.0	8.8	15.7	24.5	29.4
152.5°	0.0	6.9	12.7	20.6	24.5
155°	0.0	4.9	10.8	16.7	19.6
157.5°	0.0	3.9	7.8	10.8	13.7
160°	1.0	2.0	5.9	6.9	8.8
162.5°	1.0	2.0	2.9	2.9	4.9
165°	1.0	1.0	1.0	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)