

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: P232024

Luminaire Tested: **FVS4M-3-LD4-30-1HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232024
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-LD4-30-1HI-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
3FT LENGTH, 1-MODULE LED WITH P125 LENS
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

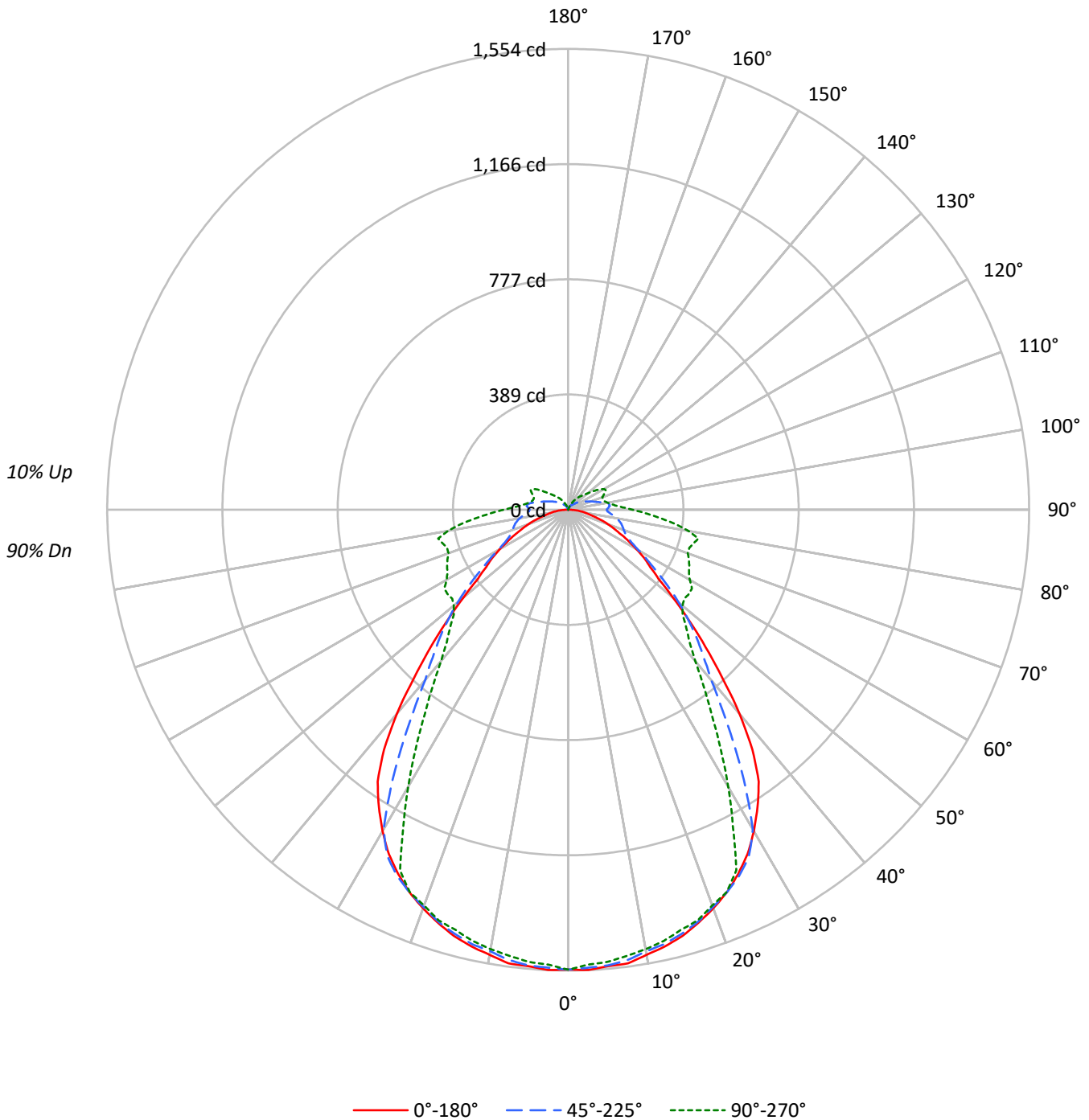
Lumens per Lamp: N/A
Luminaire Lumens: 3699.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

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

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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	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°	18314	18314	18314
5°	18214	17561	17240
10°	18069	16748	16317
15°	17888	16078	15453
20°	17568	15303	14647
25°	17149	14571	13655
30°	16457	13354	10923
35°	15449	10646	8556
40°	13144	8298	6826
45°	10282	6964	5875
50°	7864	5734	5391
55°	6368	4482	5504
60°	5643	3558	5482
65°	4796	3067	5501
70°	4149	3001	5594
75°	3433	3078	6166
80°	2876	3072	6346
85°	2257	3030	5292



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	4.0
10°-20°	417.2	11.3
20°-30°	616.8	16.7
30°-40°	616.9	16.7
40°-50°	475.7	12.9
50°-60°	352.7	9.5
60°-70°	270.8	7.3
70°-80°	244.5	6.6
80°-90°	190.5	5.1
90°-100°	116.4	3.1
100°-110°	85.7	2.3
110°-120°	72.0	1.9
120°-130°	48.3	1.3
130°-140°	26.7	0.7
140°-150°	13.4	0.4
150°-160°	4.9	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	1180.2	31.9
0°-40°	1797.1	48.6
0°-60°	2625.5	71.0
0°-90°	3331.2	90.1
90°-120°	274.1	7.4
90°-150°	362.5	9.8
90°-180°	368.0	9.9
0°-180°	3699.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1551	1551	1551	1551	1551	
5°	1545	1539	1542	1537	1531	147
15°	1488	1477	1481	1477	1467	419
25°	1356	1356	1363	1365	1341	623
35°	1120	1129	981	878	843	687
45°	655	622	613	598	563	509
55°	338	342	364	436	496	310
65°	195	174	220	361	450	197
75°	93	120	186	351	438	101
85°	29	69	142	322	307	30
90°	0	38	130	227	216	2
95°	0	33	140	168	161	0
105°	0	27	101	127	123	0
115°	0	23	65	138	137	0
125°	0	21	44	90	114	0
135°	0	17	28	56	68	0
145°	0	12	18	33	42	0
155°	0	5	11	16	19	0
165°	1	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°	1550.8	1550.8	1550.8	1550.8	1550.8
2.5°	1553.7	1547.0	1546.0	1541.2	1535.4
5°	1545.1	1539.3	1542.2	1537.4	1530.6
7.5°	1543.1	1534.5	1531.6	1518.1	1517.2
10°	1523.9	1522.0	1512.3	1512.3	1504.6
12.5°	1508.5	1500.8	1499.8	1495.0	1489.3
15°	1488.3	1476.7	1480.6	1476.7	1467.1
17.5°	1460.4	1453.7	1456.5	1457.5	1451.7
20°	1430.6	1430.6	1425.8	1433.5	1420.0
22.5°	1396.9	1396.9	1396.9	1402.7	1395.9
25°	1355.5	1356.5	1363.2	1365.1	1341.1
27.5°	1309.4	1315.1	1319.0	1258.4	1202.6
30°	1251.6	1261.2	1244.9	1120.8	1078.5
32.5°	1188.1	1201.6	1113.1	1000.5	956.3
35°	1119.8	1129.4	981.3	878.4	842.8
37.5°	1019.8	1018.8	855.3	783.1	748.5
40°	898.6	871.6	750.4	695.6	665.7
42.5°	768.7	732.1	676.3	638.8	605.1
45°	655.2	622.4	612.8	598.4	562.8
47.5°	551.3	540.7	549.3	561.8	523.4
50°	460.8	467.6	486.8	511.8	503.2
52.5°	384.8	403.1	423.3	471.4	492.6
55°	337.7	341.5	363.7	435.8	496.4
57.5°	304.0	287.7	317.5	407.9	494.5
60°	265.5	239.6	273.2	386.7	473.3
62.5°	229.0	199.1	241.5	373.3	458.9
65°	195.3	174.1	220.3	360.8	450.2
67.5°	167.4	155.9	207.8	350.2	440.6
70°	141.4	139.5	199.1	344.4	429.1
72.5°	116.4	127.0	192.4	343.5	428.1
75°	93.3	120.3	185.7	351.1	437.7
77.5°	72.2	114.5	176.1	366.5	449.3
80°	57.7	102.0	165.5	375.2	410.8
82.5°	44.3	85.6	153.9	367.5	360.8
85°	28.9	69.3	142.4	322.3	306.9
87.5°	13.5	51.0	132.8	273.2	258.8
90°	0.0	38.5	129.9	227.0	216.5
92.5°	0.0	34.6	134.7	192.4	182.8
95°	0.0	32.7	140.5	168.4	160.7
97.5°	0.0	31.7	139.5	152.0	145.3
100°	0.0	30.8	128.0	139.5	135.6
102.5°	0.0	28.9	114.5	130.8	127.0
105°	0.0	26.9	101.0	127.0	123.1
107.5°	0.0	26.0	90.4	129.9	122.2
110°	0.0	24.1	80.8	135.6	122.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	23.1	72.2	141.4	128.9
115°	0.0	23.1	65.4	138.5	136.6
117.5°	0.0	22.1	59.6	128.9	142.4
120°	0.0	22.1	53.9	116.4	139.5
122.5°	0.0	21.2	49.1	103.9	128.0
125°	0.0	21.2	44.3	90.4	114.5
127.5°	0.0	20.2	40.4	80.8	98.1
130°	0.0	19.2	35.6	71.2	85.6
132.5°	0.0	19.2	31.7	63.5	76.0
135°	0.0	17.3	27.9	55.8	68.3
137.5°	0.0	16.4	25.0	50.0	61.6
140°	0.0	14.4	23.1	43.3	54.8
142.5°	0.0	13.5	20.2	37.5	49.1
145°	0.0	11.5	18.3	32.7	42.3
147.5°	0.0	9.6	16.4	28.9	35.6
150°	0.0	8.7	15.4	24.1	28.9
152.5°	0.0	6.7	12.5	20.2	24.1
155°	0.0	4.8	10.6	16.4	19.2
157.5°	0.0	3.8	7.7	10.6	13.5
160°	1.0	1.9	5.8	6.7	8.7
162.5°	1.0	1.9	2.9	2.9	4.8
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)