

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: P232020

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232020
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-LD4-30-1STD-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

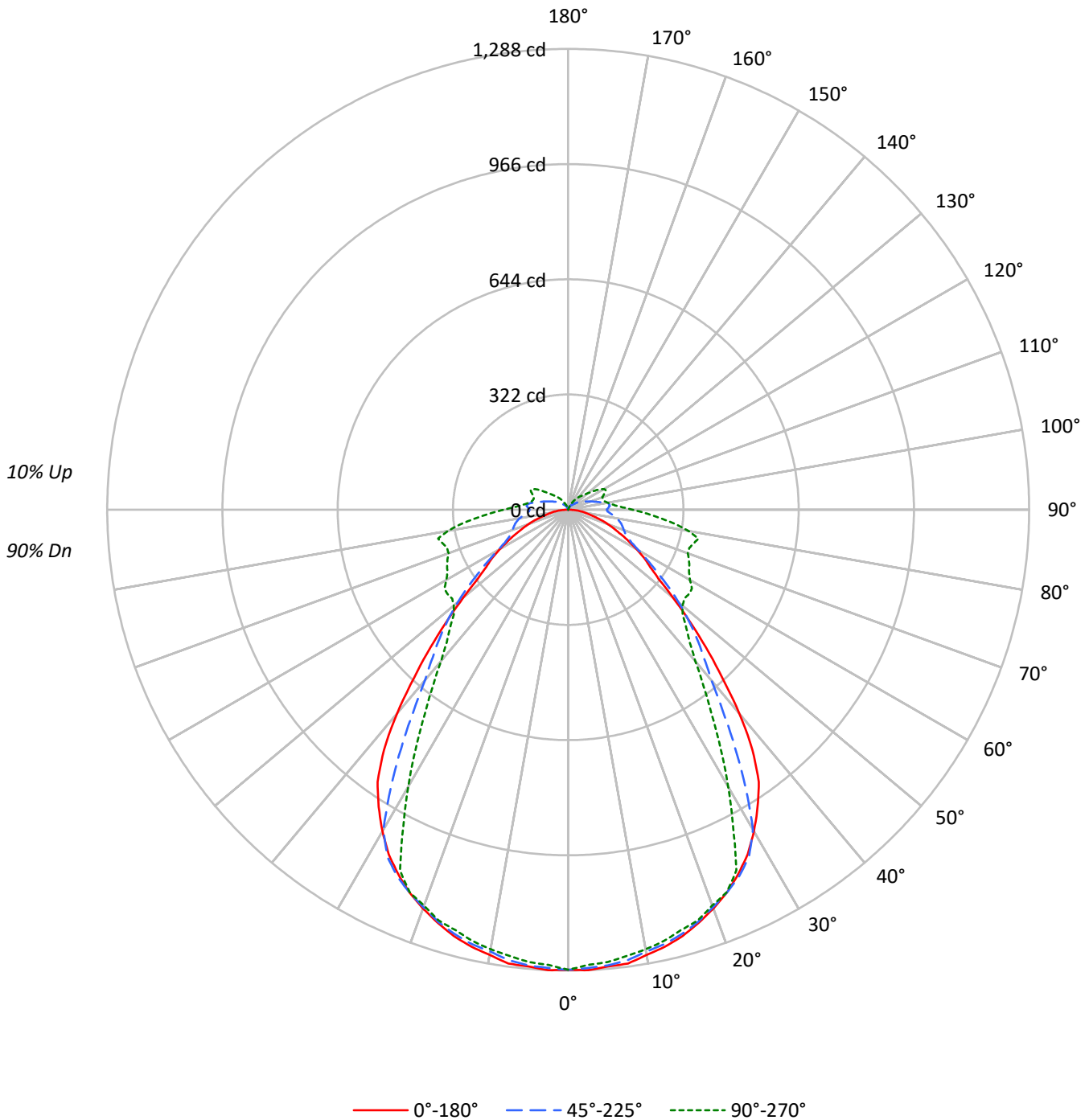
Lumens per Lamp: N/A
Luminaire Lumens: 3067.0 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

Input Watts (W): 28.5
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										
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	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°	15186	15186	15186
5°	15102	14560	14294
10°	14982	13886	13530
15°	14832	13331	12813
20°	14565	12688	12145
25°	14219	12082	11322
30°	13645	11073	9056
35°	12809	8826	7094
40°	10897	6880	5660
45°	8524	5774	4870
50°	6521	4754	4469
55°	5280	3715	4564
60°	4680	2950	4546
65°	3976	2543	4562
70°	3442	2489	4639
75°	2848	2552	5112
80°	2387	2547	5261
85°	1867	2513	4388



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	4.0
10°-20°	345.9	11.3
20°-30°	511.4	16.7
30°-40°	511.5	16.7
40°-50°	394.4	12.9
50°-60°	292.4	9.5
60°-70°	224.5	7.3
70°-80°	202.7	6.6
80°-90°	157.9	5.1
90°-100°	96.5	3.1
100°-110°	71.1	2.3
110°-120°	59.7	1.9
120°-130°	40.0	1.3
130°-140°	22.1	0.7
140°-150°	11.1	0.4
150°-160°	4.0	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	978.5	31.9
0°-40°	1490.0	48.6
0°-60°	2176.9	71.0
0°-90°	2762.0	90.1
90°-120°	227.3	7.4
90°-150°	300.5	9.8
90°-180°	305.0	9.9
0°-180°	3067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1286	1286	1286	1286	1286	
5°	1281	1276	1279	1275	1269	122
15°	1234	1224	1228	1224	1216	348
25°	1124	1125	1130	1132	1112	516
35°	928	936	814	728	699	570
45°	543	516	508	496	467	422
55°	280	283	302	361	412	257
65°	162	144	183	299	373	163
75°	77	100	154	291	363	83
85°	24	57	118	267	254	25
90°	0	32	108	188	180	2
95°	0	27	116	140	133	0
105°	0	22	84	105	102	0
115°	0	19	54	115	113	0
125°	0	18	37	75	95	0
135°	0	14	23	46	57	0
145°	0	10	15	27	35	0
155°	0	4	9	14	16	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°	1285.9	1285.9	1285.9	1285.9	1285.9
2.5°	1288.2	1282.7	1281.9	1277.9	1273.1
5°	1281.1	1276.3	1278.7	1274.7	1269.1
7.5°	1279.5	1272.3	1269.9	1258.7	1257.9
10°	1263.5	1261.9	1253.9	1253.9	1247.6
12.5°	1250.8	1244.4	1243.6	1239.6	1234.8
15°	1234.0	1224.4	1227.6	1224.4	1216.5
17.5°	1210.9	1205.3	1207.7	1208.5	1203.7
20°	1186.1	1186.1	1182.2	1188.5	1177.4
22.5°	1158.2	1158.2	1158.2	1163.0	1157.4
25°	1123.9	1124.7	1130.3	1131.9	1112.0
27.5°	1085.6	1090.4	1093.6	1043.4	997.1
30°	1037.8	1045.8	1032.2	929.3	894.2
32.5°	985.1	996.3	922.9	829.6	792.9
35°	928.5	936.5	813.6	728.3	698.8
37.5°	845.5	844.7	709.1	649.3	620.6
40°	745.0	722.7	622.2	576.7	552.0
42.5°	637.3	607.0	560.8	529.7	501.7
45°	543.2	516.1	508.1	496.2	466.6
47.5°	457.1	448.3	455.5	465.8	433.9
50°	382.1	387.7	403.6	424.4	417.2
52.5°	319.1	334.2	351.0	390.9	408.4
55°	280.0	283.2	301.5	361.3	411.6
57.5°	252.1	238.5	263.2	338.2	410.0
60°	220.2	198.6	226.5	320.7	392.5
62.5°	189.8	165.1	200.2	309.5	380.5
65°	161.9	144.4	182.7	299.1	373.3
67.5°	138.8	129.2	172.3	290.4	365.3
70°	117.3	115.7	165.1	285.6	355.8
72.5°	96.5	105.3	159.5	284.8	355.0
75°	77.4	99.7	154.0	291.2	362.9
77.5°	59.8	94.9	146.0	303.9	372.5
80°	47.9	84.6	137.2	311.1	340.6
82.5°	36.7	71.0	127.6	304.7	299.1
85°	23.9	57.4	118.1	267.2	254.5
87.5°	11.2	42.3	110.1	226.5	214.6
90°	0.0	31.9	107.7	188.3	179.5
92.5°	0.0	28.7	111.7	159.5	151.6
95°	0.0	27.1	116.5	139.6	133.2
97.5°	0.0	26.3	115.7	126.0	120.4
100°	0.0	25.5	106.1	115.7	112.5
102.5°	0.0	23.9	94.9	108.5	105.3
105°	0.0	22.3	83.8	105.3	102.1
107.5°	0.0	21.5	75.0	107.7	101.3
110°	0.0	19.9	67.0	112.5	101.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	19.1	59.8	117.3	106.9
115°	0.0	19.1	54.2	114.9	113.3
117.5°	0.0	18.3	49.5	106.9	118.1
120°	0.0	18.3	44.7	96.5	115.7
122.5°	0.0	17.5	40.7	86.1	106.1
125°	0.0	17.5	36.7	75.0	94.9
127.5°	0.0	16.8	33.5	67.0	81.4
130°	0.0	16.0	29.5	59.0	71.0
132.5°	0.0	16.0	26.3	52.6	63.0
135°	0.0	14.4	23.1	46.3	56.6
137.5°	0.0	13.6	20.7	41.5	51.1
140°	0.0	12.0	19.1	35.9	45.5
142.5°	0.0	11.2	16.8	31.1	40.7
145°	0.0	9.6	15.2	27.1	35.1
147.5°	0.0	8.0	13.6	23.9	29.5
150°	0.0	7.2	12.8	19.9	23.9
152.5°	0.0	5.6	10.4	16.8	19.9
155°	0.0	4.0	8.8	13.6	16.0
157.5°	0.0	3.2	6.4	8.8	11.2
160°	0.8	1.6	4.8	5.6	7.2
162.5°	0.8	1.6	2.4	2.4	4.0
165°	0.8	0.8	0.8	0.8	0.8
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)