

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: P232022

Luminaire Tested: **FVS4M-3-LD4-40-1STD-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232022
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-LD4-40-1STD-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
3FT LENGTH, 1-MODULE LED WITH P125 LENS
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

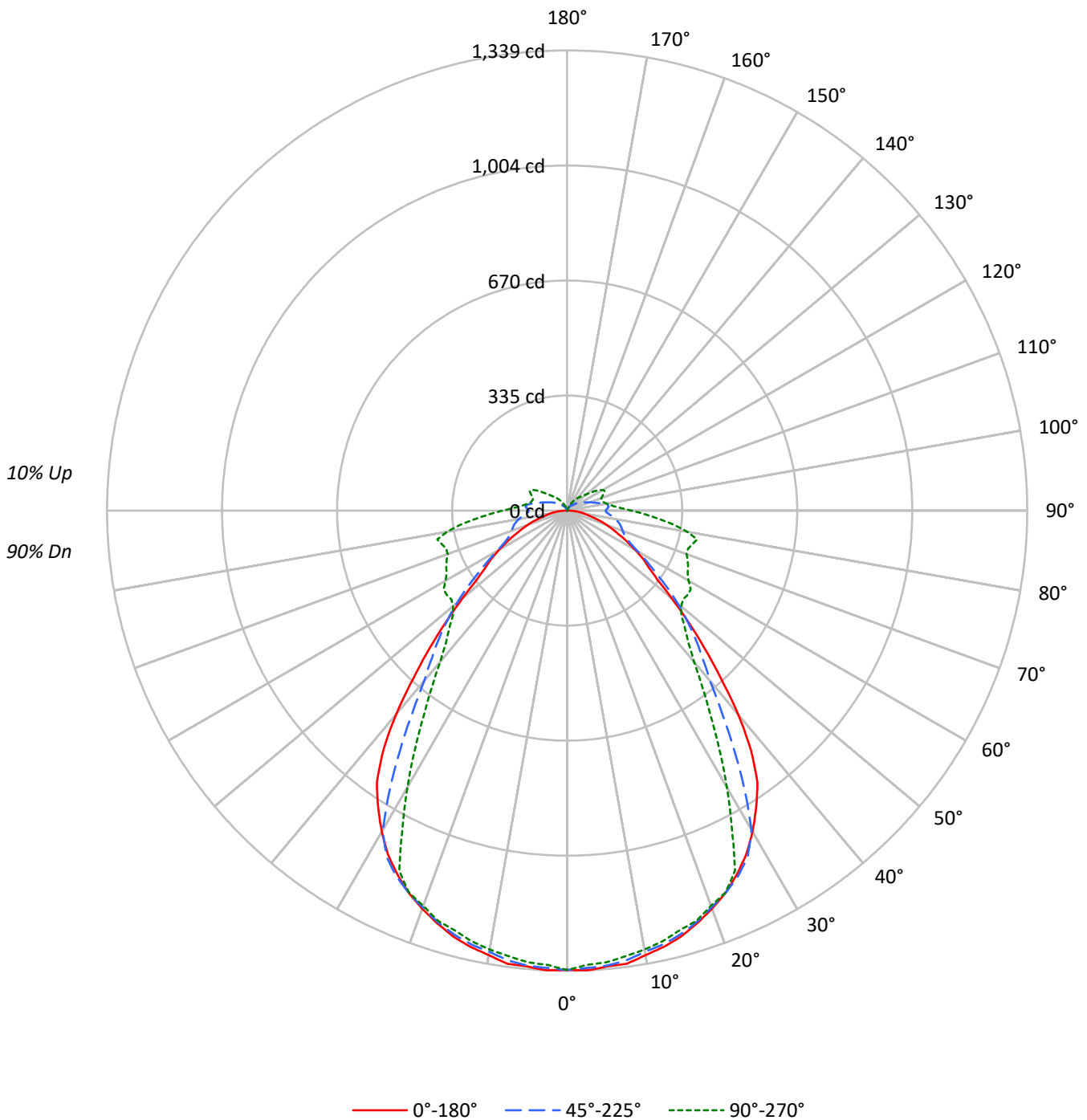
Lumens per Lamp: N/A
Luminaire Lumens: 3187.9 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

Input Watts (W): 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					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°	15785	15785	15785
5°	15697	15134	14859
10°	15573	14434	14063
15°	15417	13858	13318
20°	15140	13188	12623
25°	14780	12559	11768
30°	14183	11509	9414
35°	13314	9175	7373
40°	11327	7151	5884
45°	8860	6002	5064
50°	6778	4941	4645
55°	5488	3862	4743
60°	4863	3067	4724
65°	4133	2644	4741
70°	3577	2587	4821
75°	2959	2652	5315
80°	2477	2647	5468
85°	1945	2610	4561



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	4.0
10°-20°	359.6	11.3
20°-30°	531.6	16.7
30°-40°	531.7	16.7
40°-50°	410.0	12.9
50°-60°	304.0	9.5
60°-70°	233.4	7.3
70°-80°	210.7	6.6
80°-90°	164.1	5.1
90°-100°	100.3	3.1
100°-110°	73.9	2.3
110°-120°	62.1	1.9
120°-130°	41.6	1.3
130°-140°	23.0	0.7
140°-150°	11.5	0.4
150°-160°	4.2	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	1017.1	31.9
0°-40°	1548.8	48.6
0°-60°	2262.8	71.0
0°-90°	2871.0	90.1
90°-120°	236.2	7.4
90°-150°	312.4	9.8
90°-180°	317.0	9.9
0°-180°	3187.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1337	1337	1337	1337	1337	
5°	1332	1327	1329	1325	1319	127
15°	1283	1273	1276	1273	1264	361
25°	1168	1169	1175	1177	1156	537
35°	965	973	846	757	726	592
45°	565	536	528	516	485	439
55°	291	294	313	376	428	267
65°	168	150	190	311	388	169
75°	80	104	160	303	377	87
85°	25	60	123	278	264	25
90°	0	33	112	196	187	2
95°	0	28	121	145	138	0
105°	0	23	87	109	106	0
115°	0	20	56	119	118	0
125°	0	18	38	78	99	0
135°	0	15	24	48	59	0
145°	0	10	16	28	36	0
155°	0	4	9	14	17	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°	1336.6	1336.6	1336.6	1336.6	1336.6
2.5°	1339.1	1333.3	1332.4	1328.3	1323.3
5°	1331.6	1326.6	1329.1	1325.0	1319.2
7.5°	1330.0	1322.5	1320.0	1308.4	1307.6
10°	1313.4	1311.7	1303.4	1303.4	1296.8
12.5°	1300.1	1293.5	1292.6	1288.5	1283.5
15°	1282.7	1272.7	1276.1	1272.7	1264.4
17.5°	1258.6	1252.8	1255.3	1256.2	1251.2
20°	1232.9	1232.9	1228.8	1235.4	1223.8
22.5°	1203.9	1203.9	1203.9	1208.9	1203.1
25°	1168.3	1169.1	1174.9	1176.6	1155.8
27.5°	1128.5	1133.4	1136.8	1084.5	1036.4
30°	1078.7	1087.0	1072.9	966.0	929.5
32.5°	1024.0	1035.6	959.3	862.3	824.2
35°	965.1	973.4	845.7	757.0	726.3
37.5°	878.9	878.1	737.1	674.9	645.1
40°	774.4	751.2	646.7	599.5	573.8
42.5°	662.5	631.0	582.9	550.6	521.5
45°	564.6	536.5	528.2	515.7	485.1
47.5°	475.1	466.0	473.4	484.2	451.1
50°	397.2	403.0	419.5	441.1	433.6
52.5°	331.7	347.4	364.8	406.3	424.5
55°	291.0	294.3	313.4	375.6	427.8
57.5°	262.0	247.9	273.6	351.6	426.2
60°	228.8	206.5	235.5	333.3	407.9
62.5°	197.3	171.6	208.1	321.7	395.5
65°	168.3	150.1	189.9	310.9	388.0
67.5°	144.3	134.3	179.1	301.8	379.7
70°	121.9	120.2	171.6	296.8	369.8
72.5°	100.3	109.4	165.8	296.0	369.0
75°	80.4	103.6	160.0	302.6	377.3
77.5°	62.2	98.7	151.7	315.9	387.2
80°	49.7	87.9	142.6	323.4	354.0
82.5°	38.1	73.8	132.7	316.7	310.9
85°	24.9	59.7	122.7	277.8	264.5
87.5°	11.6	43.9	114.4	235.5	223.0
90°	0.0	33.2	111.9	195.7	186.6
92.5°	0.0	29.8	116.1	165.8	157.5
95°	0.0	28.2	121.1	145.1	138.5
97.5°	0.0	27.4	120.2	131.0	125.2
100°	0.0	26.5	110.3	120.2	116.9
102.5°	0.0	24.9	98.7	112.8	109.4
105°	0.0	23.2	87.1	109.4	106.1
107.5°	0.0	22.4	77.9	111.9	105.3
110°	0.0	20.7	69.6	116.9	105.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	19.9	62.2	121.9	111.1
115°	0.0	19.9	56.4	119.4	117.7
117.5°	0.0	19.1	51.4	111.1	122.7
120°	0.0	19.1	46.4	100.3	120.2
122.5°	0.0	18.2	42.3	89.5	110.3
125°	0.0	18.2	38.1	77.9	98.7
127.5°	0.0	17.4	34.8	69.6	84.6
130°	0.0	16.6	30.7	61.4	73.8
132.5°	0.0	16.6	27.4	54.7	65.5
135°	0.0	14.9	24.0	48.1	58.9
137.5°	0.0	14.1	21.6	43.1	53.1
140°	0.0	12.4	19.9	37.3	47.3
142.5°	0.0	11.6	17.4	32.3	42.3
145°	0.0	9.9	15.8	28.2	36.5
147.5°	0.0	8.3	14.1	24.9	30.7
150°	0.0	7.5	13.3	20.7	24.9
152.5°	0.0	5.8	10.8	17.4	20.7
155°	0.0	4.1	9.1	14.1	16.6
157.5°	0.0	3.3	6.6	9.1	11.6
160°	0.8	1.7	5.0	5.8	7.5
162.5°	0.8	1.7	2.5	2.5	4.1
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)