

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: P232056

Luminaire Tested: **FVS4M-3-LD4-30-2STD-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-28)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4M-3-LD4-30-2STD-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
3FT LENGTH, 2-MODULE LED WITH P125 LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

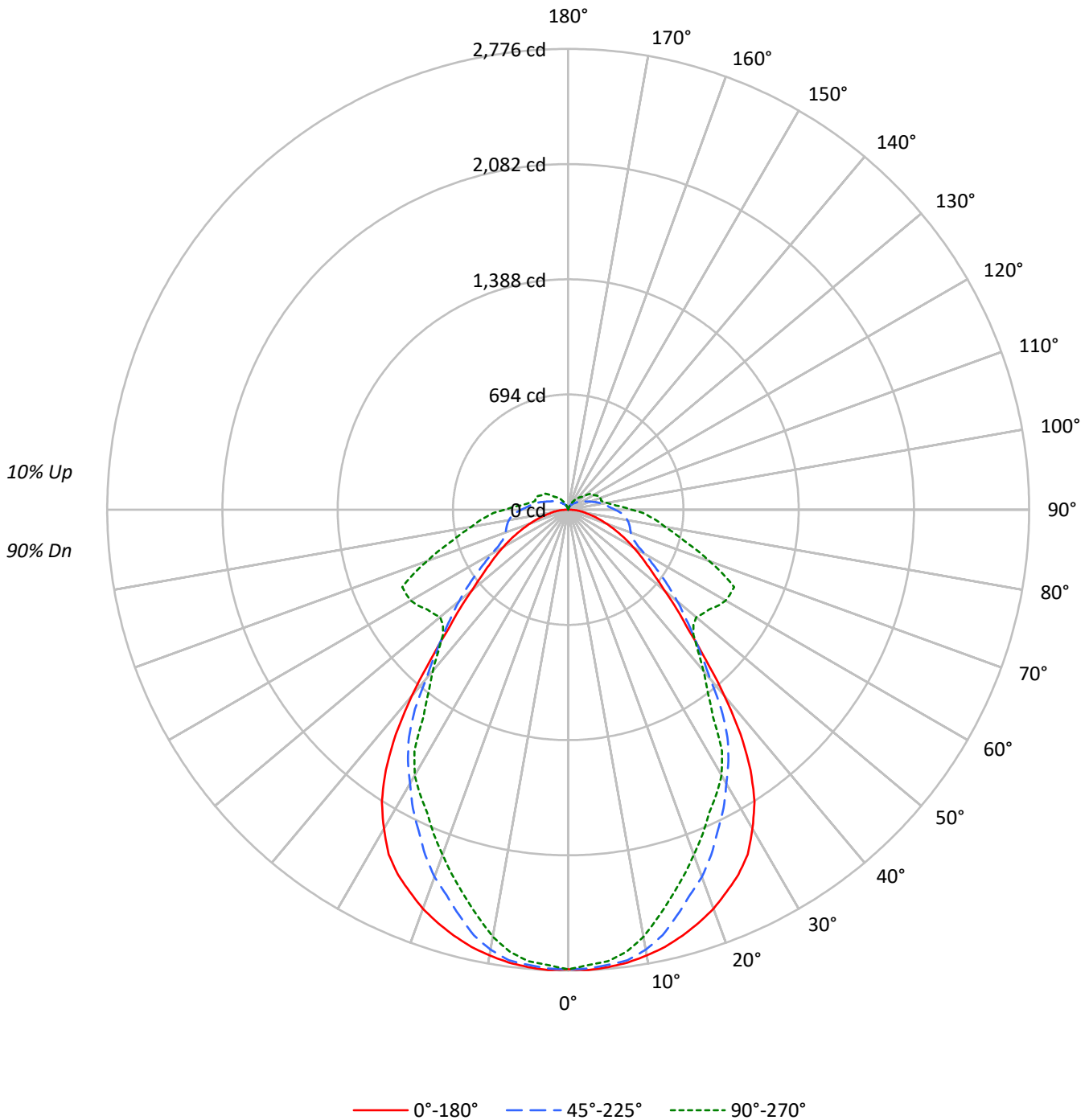
Lumens per Lamp: N/A
Luminaire Lumens: 6545.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.01 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

Input Watts (W): 64
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	97	93	89	91	88	85	86	83	80	81	78	76	74
2	96	88	81	75	93	85	79	74	80	75	71	76	71	68	71	68	65	62
3	88	78	70	64	85	76	68	62	71	65	60	67	62	58	64	59	56	53
4	81	70	61	55	78	68	60	54	64	57	52	61	55	50	57	53	49	46
5	75	63	54	48	73	61	53	47	58	51	46	55	49	44	52	47	43	41
6	70	57	49	42	67	56	48	42	53	46	41	50	44	40	48	43	39	36
7	65	52	44	38	63	51	43	37	49	42	37	46	40	36	44	39	35	33
8	61	48	40	34	59	47	39	34	45	38	33	43	37	32	41	36	32	30
9	57	44	36	31	55	43	36	31	41	35	30	40	34	29	38	33	29	27
10	54	41	33	28	52	40	33	28	39	32	28	37	31	27	36	30	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32697	32697	32697
5°	32607	31345	30757
10°	32327	29801	28331
15°	31930	27488	25380
20°	31410	25255	22815
25°	30684	22785	20482
30°	29176	20434	18712
35°	26426	18139	15414
40°	21410	14684	13001
45°	16075	12051	11125
50°	12889	10101	10794
55°	10949	8339	11564
60°	9619	6906	12682
65°	8320	6068	13478
70°	7172	6039	11791
75°	6006	6346	10166
80°	5014	6714	9131
85°	4272	7076	8551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.4	4.0
10°-20°	713.5	10.9
20°-30°	999.0	15.3
30°-40°	1048.0	16.0
40°-50°	840.6	12.8
50°-60°	665.9	10.2
60°-70°	577.4	8.8
70°-80°	472.7	7.2
80°-90°	330.9	5.1
90°-100°	209.3	3.2
100°-110°	148.8	2.3
110°-120°	111.9	1.7
120°-130°	80.1	1.2
130°-140°	47.8	0.7
140°-150°	26.2	0.4
150°-160°	10.9	0.2
160°-170°	1.8	0.0
170°-180°	0.0	0.0
0°-30°	1972.8	30.1
0°-40°	3020.8	46.2
0°-60°	4527.3	69.2
0°-90°	5908.3	90.3
90°-120°	470.0	7.2
90°-150°	624.1	9.5
90°-180°	637.0	9.7
0°-180°	6545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2769	2769	2769	2769	2769	
5°	2766	2750	2753	2741	2731	263
15°	2657	2636	2531	2451	2410	749
25°	2425	2283	2132	2050	2012	1112
35°	1916	1794	1672	1578	1518	1176
45°	1024	1088	1060	1106	1066	815
55°	581	576	677	876	1043	527
65°	339	301	436	882	1103	339
75°	163	214	383	745	722	175
85°	55	126	333	477	496	54
90°	2	76	282	387	380	4
95°	1	66	240	306	289	1
105°	1	56	175	226	206	1
115°	1	44	118	184	198	1
125°	2	42	84	148	168	2
135°	2	35	57	96	108	1
145°	2	26	41	61	75	1
155°	3	14	26	33	37	1
165°	3	4	9	4	5	1
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°	2768.7	2768.7	2768.7	2768.7	2768.7
2.5°	2775.7	2767.8	2766.0	2752.8	2745.7
5°	2766.0	2750.1	2752.8	2741.3	2730.7
7.5°	2751.0	2736.0	2737.8	2715.7	2686.6
10°	2726.3	2714.0	2691.0	2641.6	2612.5
12.5°	2697.2	2685.7	2625.7	2549.9	2511.0
15°	2656.6	2636.3	2531.3	2451.0	2409.6
17.5°	2610.7	2555.1	2435.2	2362.8	2312.5
20°	2557.8	2477.5	2353.1	2263.1	2211.9
22.5°	2491.6	2374.3	2250.8	2150.2	2114.9
25°	2425.4	2283.4	2131.6	2050.5	2011.6
27.5°	2340.7	2169.6	2026.6	1955.2	1932.2
30°	2219.0	2061.9	1904.9	1860.8	1847.5
32.5°	2088.4	1933.1	1795.5	1741.7	1724.0
35°	1915.5	1793.7	1672.0	1577.6	1518.4
37.5°	1704.6	1637.6	1514.9	1409.9	1378.2
40°	1463.7	1451.4	1327.9	1282.9	1267.9
42.5°	1226.4	1272.3	1185.8	1189.3	1157.6
45°	1024.4	1087.9	1060.5	1105.5	1065.8
47.5°	886.7	933.5	952.9	1025.2	1022.6
50°	755.3	799.4	857.6	967.9	1007.6
52.5°	659.1	683.8	764.1	922.0	1025.2
55°	580.6	576.1	676.7	876.1	1042.9
57.5°	516.1	487.0	596.4	849.7	1073.8
60°	452.6	405.0	530.3	847.0	1094.9
62.5°	395.3	341.5	472.9	858.5	1100.2
65°	338.8	300.9	435.9	882.3	1102.9
67.5°	289.4	270.0	413.8	897.3	1005.8
70°	244.4	244.4	400.6	881.4	904.4
72.5°	202.9	225.0	391.7	812.6	811.7
75°	163.2	214.4	382.9	744.7	721.7
77.5°	124.4	204.7	374.1	674.1	654.7
80°	100.6	183.5	361.7	598.2	591.1
82.5°	79.4	156.2	349.4	540.0	546.1
85°	54.7	126.2	332.6	477.3	495.9
87.5°	25.6	97.9	308.8	427.0	451.7
90°	1.8	75.9	281.5	387.3	380.3
92.5°	1.8	68.8	257.6	345.9	335.3
95°	0.9	66.2	240.0	306.2	289.4
97.5°	0.9	64.4	221.5	270.0	256.8
100°	0.9	61.8	207.3	244.4	236.5
102.5°	0.9	58.2	190.6	233.8	217.0
105°	0.9	55.6	174.7	225.9	205.6
107.5°	0.9	51.2	157.0	219.7	206.5
110°	0.9	48.5	142.1	207.3	205.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	45.9	129.7	194.1	205.6
115°	0.9	44.1	118.2	184.4	197.6
117.5°	0.9	43.2	109.4	180.9	186.2
120°	1.8	42.4	99.7	178.2	176.5
122.5°	1.8	42.4	91.8	165.0	171.2
125°	1.8	41.5	83.8	148.2	168.5
127.5°	1.8	39.7	76.8	133.2	151.8
130°	1.8	38.8	69.7	120.0	132.3
132.5°	1.8	37.1	63.5	107.6	117.3
135°	1.8	35.3	57.3	96.2	107.6
137.5°	1.8	32.6	52.9	85.6	100.6
140°	1.8	30.9	48.5	76.8	91.8
142.5°	1.8	28.2	44.1	67.9	82.9
145°	1.8	25.6	40.6	60.9	75.0
147.5°	2.6	22.9	37.1	54.7	63.5
150°	2.6	19.4	33.5	47.6	54.7
152.5°	2.6	16.8	30.0	40.6	45.9
155°	2.6	14.1	25.6	32.6	37.1
157.5°	2.6	11.5	21.2	24.7	29.1
160°	2.6	9.7	17.6	16.8	20.3
162.5°	2.6	7.1	13.2	9.7	12.4
165°	2.6	4.4	8.8	4.4	5.3
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)