

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: P232054

Luminaire Tested: **FVS4M-3-LD4-40-2LO-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232054
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-LD4-40-2LO-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
3FT LENGTH, 2-MODULE LED WITH P125 LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

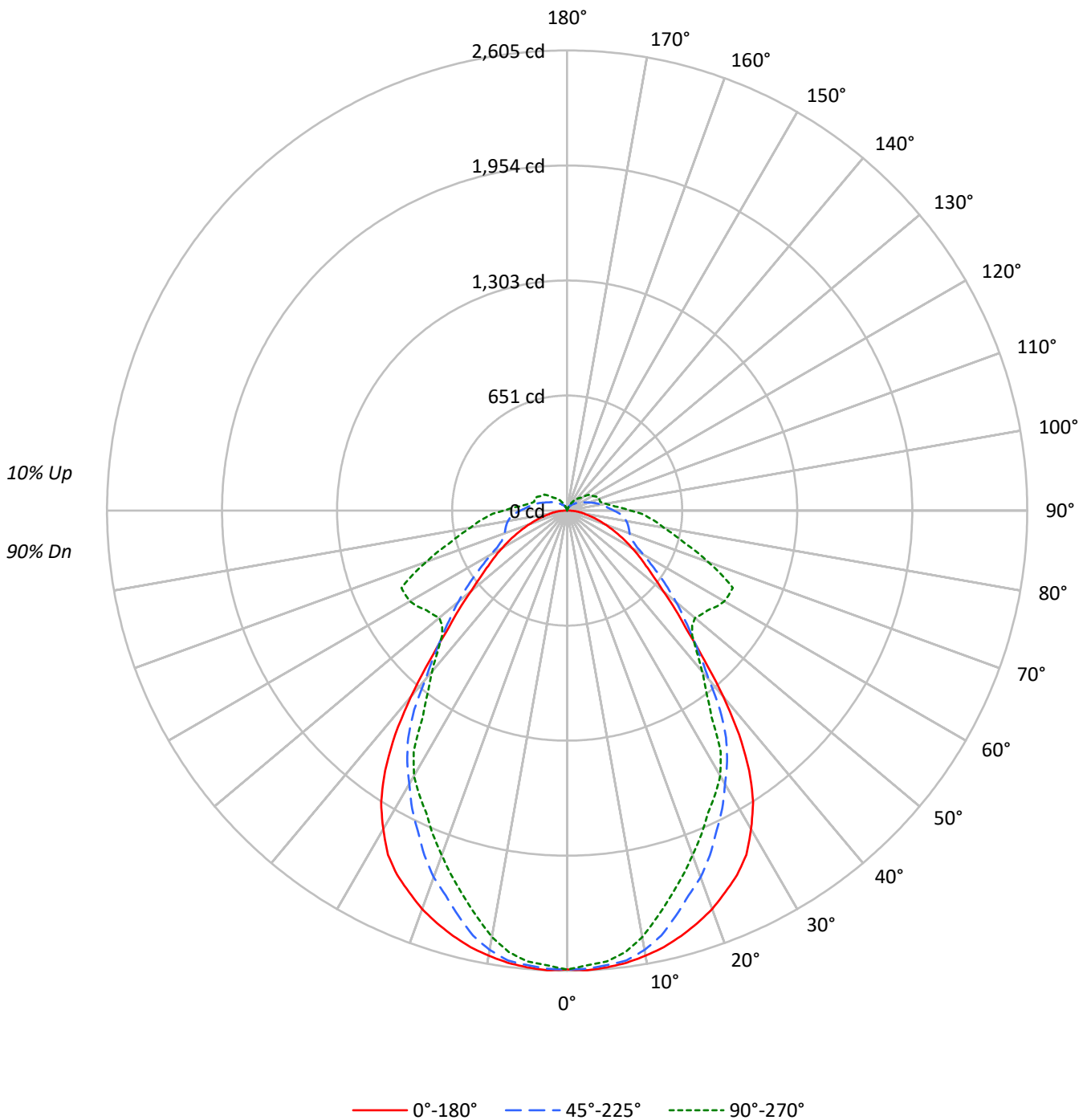
Lumens per Lamp: N/A
Luminaire Lumens: 6142.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.01 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

Input Watts (W): 56.8
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°	30684	30684	30684
5°	30599	29415	28864
10°	30336	27966	26586
15°	29964	25796	23817
20°	29476	23700	21411
25°	28795	21383	19221
30°	27380	19176	17560
35°	24798	17022	14465
40°	20092	13779	12200
45°	15085	11309	10440
50°	12094	9480	10129
55°	10274	7826	10852
60°	9028	6480	11901
65°	7807	5694	12648
70°	6729	5666	11065
75°	5638	5955	9541
80°	4705	6302	8568
85°	4007	6640	8023



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.3	4.0
10°-20°	669.6	10.9
20°-30°	937.5	15.3
30°-40°	983.5	16.0
40°-50°	788.8	12.8
50°-60°	624.9	10.2
60°-70°	541.8	8.8
70°-80°	443.6	7.2
80°-90°	310.5	5.1
90°-100°	196.4	3.2
100°-110°	139.7	2.3
110°-120°	105.0	1.7
120°-130°	75.1	1.2
130°-140°	44.9	0.7
140°-150°	24.6	0.4
150°-160°	10.3	0.2
160°-170°	1.7	0.0
170°-180°	0.0	0.0
0°-30°	1851.4	30.1
0°-40°	2834.8	46.2
0°-60°	4248.5	69.2
0°-90°	5544.4	90.3
90°-120°	441.0	7.2
90°-150°	585.6	9.5
90°-180°	598.0	9.7
0°-180°	6142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2598	2598	2598	2598	2598	
5°	2596	2581	2583	2572	2563	247
15°	2493	2474	2376	2300	2261	703
25°	2276	2143	2000	1924	1888	1043
35°	1798	1683	1569	1480	1425	1104
45°	961	1021	995	1038	1000	765
55°	545	541	635	822	979	494
65°	318	282	409	828	1035	318
75°	153	201	359	699	677	164
85°	51	118	312	448	465	50
90°	2	71	264	364	357	4
95°	1	62	225	287	272	1
105°	1	52	164	212	193	1
115°	1	41	111	173	186	1
125°	2	39	79	139	158	2
135°	2	33	54	90	101	1
145°	2	24	38	57	70	1
155°	2	13	24	31	35	1
165°	2	4	8	4	5	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°	2598.2	2598.2	2598.2	2598.2	2598.2
2.5°	2604.8	2597.4	2595.7	2583.3	2576.7
5°	2595.7	2580.8	2583.3	2572.5	2562.6
7.5°	2581.6	2567.6	2569.2	2548.5	2521.2
10°	2558.4	2546.9	2525.3	2479.0	2451.6
12.5°	2531.1	2520.4	2464.1	2392.9	2356.4
15°	2493.0	2474.0	2375.5	2300.1	2261.2
17.5°	2450.0	2397.8	2285.2	2217.3	2170.1
20°	2400.3	2325.0	2208.2	2123.8	2075.7
22.5°	2338.2	2228.1	2112.2	2017.8	1984.7
25°	2276.1	2142.8	2000.4	1924.2	1887.8
27.5°	2196.6	2036.0	1901.9	1834.8	1813.3
30°	2082.4	1935.0	1787.6	1746.2	1733.8
32.5°	1959.8	1814.1	1684.9	1634.4	1617.9
35°	1797.5	1683.3	1569.0	1480.4	1424.9
37.5°	1599.6	1536.7	1421.6	1323.1	1293.3
40°	1373.6	1362.0	1246.1	1203.9	1189.8
42.5°	1150.9	1193.9	1112.8	1116.1	1086.3
45°	961.3	1020.9	995.2	1037.5	1000.2
47.5°	832.1	876.0	894.2	962.1	959.6
50°	708.7	750.1	804.8	908.3	945.5
52.5°	618.5	641.7	717.0	865.2	962.1
55°	544.8	540.7	635.1	822.2	978.7
57.5°	484.4	457.0	559.7	797.3	1007.6
60°	424.8	380.0	497.6	794.9	1027.5
62.5°	370.9	320.4	443.8	805.6	1032.5
65°	317.9	282.3	409.0	828.0	1035.0
67.5°	271.6	253.4	388.3	842.1	943.9
70°	229.3	229.3	375.9	827.1	848.7
72.5°	190.4	211.1	367.6	762.6	761.7
75°	153.2	201.2	359.3	698.8	677.3
77.5°	116.7	192.1	351.1	632.6	614.4
80°	94.4	172.2	339.5	561.4	554.7
82.5°	74.5	146.6	327.9	506.7	512.5
85°	51.3	118.4	312.1	447.9	465.3
87.5°	24.0	91.9	289.8	400.7	423.9
90°	1.7	71.2	264.1	363.5	356.9
92.5°	1.7	64.6	241.8	324.6	314.6
95°	0.8	62.1	225.2	287.3	271.6
97.5°	0.8	60.4	207.8	253.4	240.9
100°	0.8	58.0	194.6	229.3	221.9
102.5°	0.8	54.6	178.8	219.4	203.7
105°	0.8	52.2	163.9	212.0	192.9
107.5°	0.8	48.0	147.4	206.2	193.7
110°	0.8	45.5	133.3	194.6	192.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	43.1	121.7	182.2	192.9
115°	0.8	41.4	110.9	173.0	185.5
117.5°	0.8	40.6	102.7	169.7	174.7
120°	1.7	39.7	93.6	167.3	165.6
122.5°	1.7	39.7	86.1	154.8	160.6
125°	1.7	38.9	78.7	139.1	158.1
127.5°	1.7	37.3	72.0	125.0	142.4
130°	1.7	36.4	65.4	112.6	124.2
132.5°	1.7	34.8	59.6	101.0	110.1
135°	1.7	33.1	53.8	90.2	101.0
137.5°	1.7	30.6	49.7	80.3	94.4
140°	1.7	29.0	45.5	72.0	86.1
142.5°	1.7	26.5	41.4	63.8	77.8
145°	1.7	24.0	38.1	57.1	70.4
147.5°	2.5	21.5	34.8	51.3	59.6
150°	2.5	18.2	31.5	44.7	51.3
152.5°	2.5	15.7	28.2	38.1	43.1
155°	2.5	13.2	24.0	30.6	34.8
157.5°	2.5	10.8	19.9	23.2	27.3
160°	2.5	9.1	16.6	15.7	19.0
162.5°	2.5	6.6	12.4	9.1	11.6
165°	2.5	4.1	8.3	4.1	5.0
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)