

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: P231915

Luminaire Tested: **FVS4M-2-LD4-50-2STD-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4M-2-LD4-50-2STD-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
2FT LENGTH, 2-MODULE LED WITH P125 LENS
Light Source: (84) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

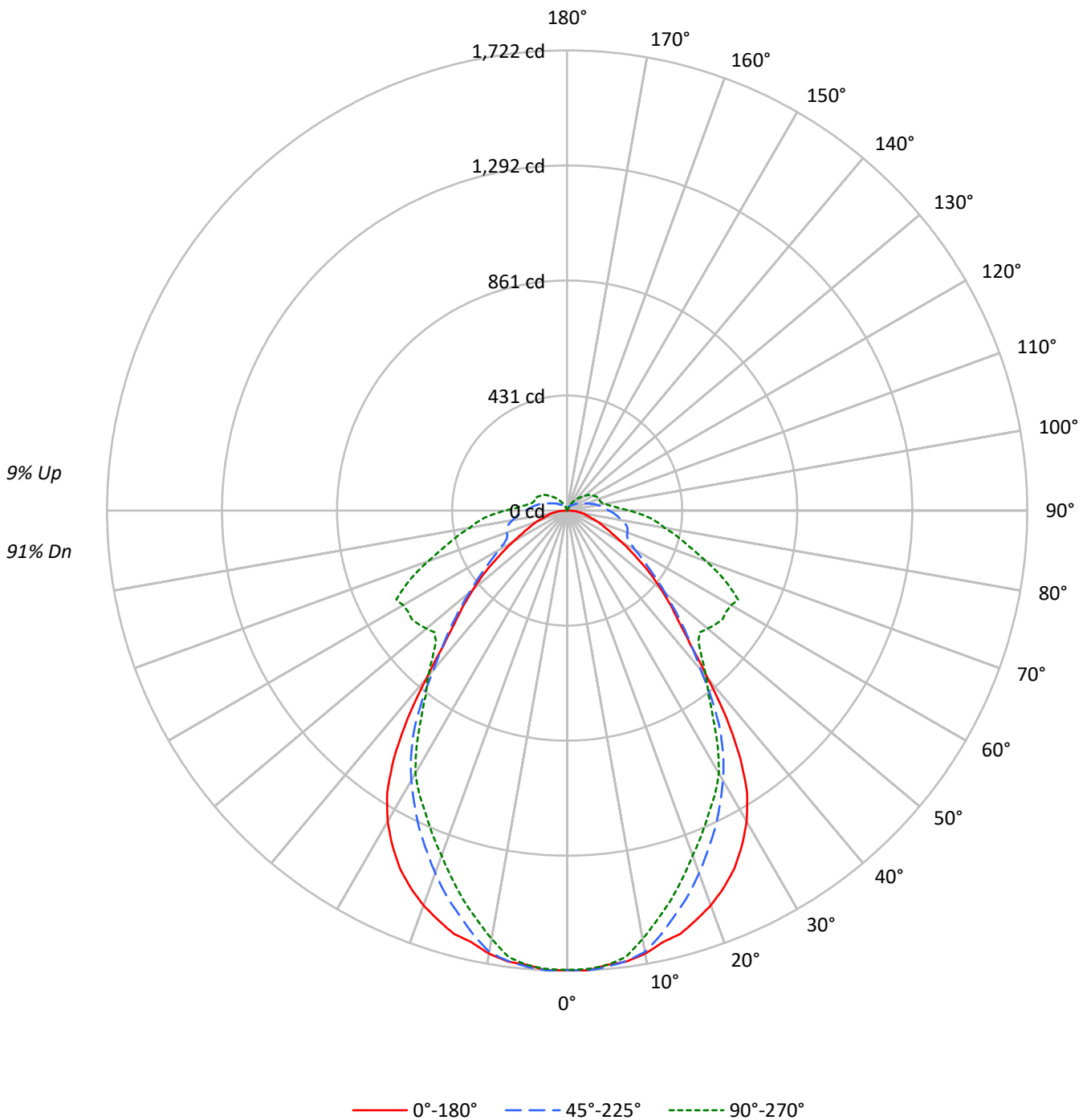
Lumens per Lamp: N/A
Luminaire Lumens: 3937.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.01 / 1.1
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 1.92' x H: 0.19')
CIE Type: Direct

Input Watts (W): 33.9
Input Voltage (V): 120
Input Current (A_{in}): 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	91
1	106	101	96	92	102	97	93	90	91	88	85	86	83	81	81	79	77	74
2	97	88	81	76	93	86	79	74	81	75	71	76	72	68	72	68	65	62
3	89	78	70	64	85	76	69	63	72	66	60	68	63	58	64	60	56	54
4	82	70	62	55	79	68	60	54	64	58	52	61	55	51	58	53	49	47
5	76	63	55	48	73	62	54	48	58	51	46	55	50	45	53	48	44	41
6	70	57	49	43	68	56	48	42	53	46	41	51	45	40	48	43	39	37
7	65	53	44	38	63	51	43	38	49	42	37	47	41	36	45	39	35	33
8	61	48	40	35	59	47	40	34	45	38	33	43	37	33	41	36	32	30
9	57	45	37	31	56	44	36	31	42	35	31	40	34	30	39	33	29	27
10	54	41	34	29	52	41	33	29	39	32	28	37	32	27	36	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	30892	30892	30892
5°	30525	29635	29265
10°	30200	28158	26858
15°	29717	25708	24137
20°	29023	23406	21561
25°	28053	21125	19397
30°	26387	18842	17502
35°	23189	16258	14732
40°	17730	12889	12622
45°	13730	10456	11016
50°	11473	8410	11202
55°	9251	6837	11970
60°	7204	5678	12488
65°	5807	5155	12467
70°	5003	5346	10957
75°	4110	5684	9670
80°	3841	5662	8683
85°	3203	5680	8155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.0	4.1
10°-20°	441.4	11.2
20°-30°	612.7	15.6
30°-40°	629.5	16.0
40°-50°	499.3	12.7
50°-60°	393.5	10.0
60°-70°	345.6	8.8
70°-80°	287.0	7.3
80°-90°	195.3	5.0
90°-100°	121.3	3.1
100°-110°	87.8	2.2
110°-120°	66.4	1.7
120°-130°	47.1	1.2
130°-140°	27.7	0.7
140°-150°	14.6	0.4
150°-160°	5.3	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	1216.0	30.9
0°-40°	1845.5	46.9
0°-60°	2738.4	69.6
0°-90°	3566.2	90.6
90°-120°	275.5	7.0
90°-150°	364.9	9.3
90°-180°	371.0	9.4
0°-180°	3937.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1719	1719	1719	1719	1719	
5°	1707	1709	1714	1708	1707	162
15°	1639	1633	1564	1515	1506	461
25°	1479	1391	1310	1267	1252	677
35°	1129	1064	997	957	954	691
45°	593	606	614	702	694	469
55°	336	296	372	551	709	304
65°	165	165	250	564	670	167
75°	81	130	233	461	451	89
85°	33	66	183	293	311	31
90°	0	40	156	235	231	2
95°	0	36	135	180	175	0
105°	0	32	97	137	129	0
115°	0	28	63	113	122	0
125°	0	24	44	91	103	0
135°	0	19	30	57	71	0
145°	0	13	23	35	43	0
155°	1	5	13	16	19	0
165°	1	1	2	0	0	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°	1719.0	1719.0	1719.0	1719.0	1719.0
2.5°	1722.5	1721.7	1722.5	1718.1	1717.2
5°	1706.6	1709.2	1713.7	1708.3	1707.4
7.5°	1702.1	1703.0	1700.3	1690.6	1684.4
10°	1683.5	1685.2	1677.3	1642.6	1627.5
12.5°	1654.2	1656.8	1624.9	1585.8	1566.3
15°	1639.1	1632.9	1564.5	1514.8	1505.9
17.5°	1606.2	1584.9	1508.6	1452.6	1439.3
20°	1571.6	1527.2	1443.7	1394.0	1373.6
22.5°	1529.0	1455.3	1376.3	1335.4	1314.1
25°	1479.3	1391.3	1310.5	1267.0	1251.9
27.5°	1415.3	1319.4	1238.6	1202.2	1197.8
30°	1343.4	1244.8	1166.7	1136.5	1135.6
32.5°	1253.7	1156.9	1087.7	1063.7	1049.5
35°	1129.4	1063.7	997.1	957.2	953.6
37.5°	979.4	949.2	887.9	871.0	868.4
40°	817.8	829.3	776.9	804.4	808.9
42.5°	683.7	708.5	690.8	754.7	745.0
45°	593.1	606.4	614.4	702.3	693.5
47.5°	525.6	507.9	541.6	642.0	673.9
50°	458.2	430.6	477.7	600.2	687.2
52.5°	398.7	356.1	421.8	572.7	699.7
55°	336.5	295.7	372.0	551.4	709.4
57.5°	280.6	246.8	330.3	535.4	705.0
60°	234.4	210.4	293.0	530.1	708.5
62.5°	193.6	182.9	266.4	536.3	721.0
65°	165.2	165.2	249.5	563.8	670.4
67.5°	141.2	153.6	242.4	575.4	614.4
70°	120.8	146.5	239.7	547.8	552.3
72.5°	97.7	141.2	237.1	498.1	498.1
75°	80.8	130.5	232.6	460.8	451.1
77.5°	69.3	114.5	221.1	421.8	412.0
80°	57.7	98.6	207.8	376.5	369.4
82.5°	44.4	81.7	194.5	333.9	341.8
85°	32.9	65.7	182.9	293.0	310.8
87.5°	13.3	51.5	170.5	263.7	269.9
90°	0.0	40.0	156.3	235.3	230.9
92.5°	0.0	36.4	143.8	204.2	196.2
95°	0.0	35.5	135.0	180.2	174.9
97.5°	0.0	34.6	126.1	159.8	156.3
100°	0.0	33.7	116.3	147.4	144.7
102.5°	0.0	32.9	108.3	141.2	134.1
105°	0.0	32.0	96.8	136.7	128.7
107.5°	0.0	31.1	86.1	133.2	127.9
110°	0.0	30.2	77.2	126.1	127.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	28.4	70.1	119.0	126.1
115°	0.0	27.5	63.0	112.8	122.5
117.5°	0.0	26.6	57.7	111.0	117.2
120°	0.0	25.7	53.3	108.3	111.9
122.5°	0.0	24.9	48.8	100.3	107.4
125°	0.0	24.0	44.4	90.6	103.0
127.5°	0.0	23.1	40.0	81.7	94.1
130°	0.0	22.2	36.4	71.9	84.4
132.5°	0.0	20.4	32.9	63.9	77.2
135°	0.0	18.6	30.2	56.8	71.0
137.5°	0.0	17.8	28.4	49.7	63.9
140°	0.0	16.0	25.7	44.4	56.8
142.5°	0.0	14.2	24.9	39.1	49.7
145°	0.0	13.3	23.1	34.6	42.6
147.5°	0.9	11.5	21.3	30.2	36.4
150°	0.9	9.8	18.6	24.9	30.2
152.5°	0.9	8.0	16.0	20.4	24.9
155°	0.9	5.3	13.3	16.0	18.6
157.5°	0.9	3.6	9.8	11.5	12.4
160°	0.9	1.8	7.1	7.1	7.1
162.5°	0.9	0.9	4.4	3.6	3.6
165°	0.9	0.9	1.8	0.0	0.0
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)