

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: P231984

Luminaire Tested: **FVS4M-4-LD4-30-2STD-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-18)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4M-4-LD4-30-2STD-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
4FT LENGTH, 2-MODULE LED WITH P125 LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

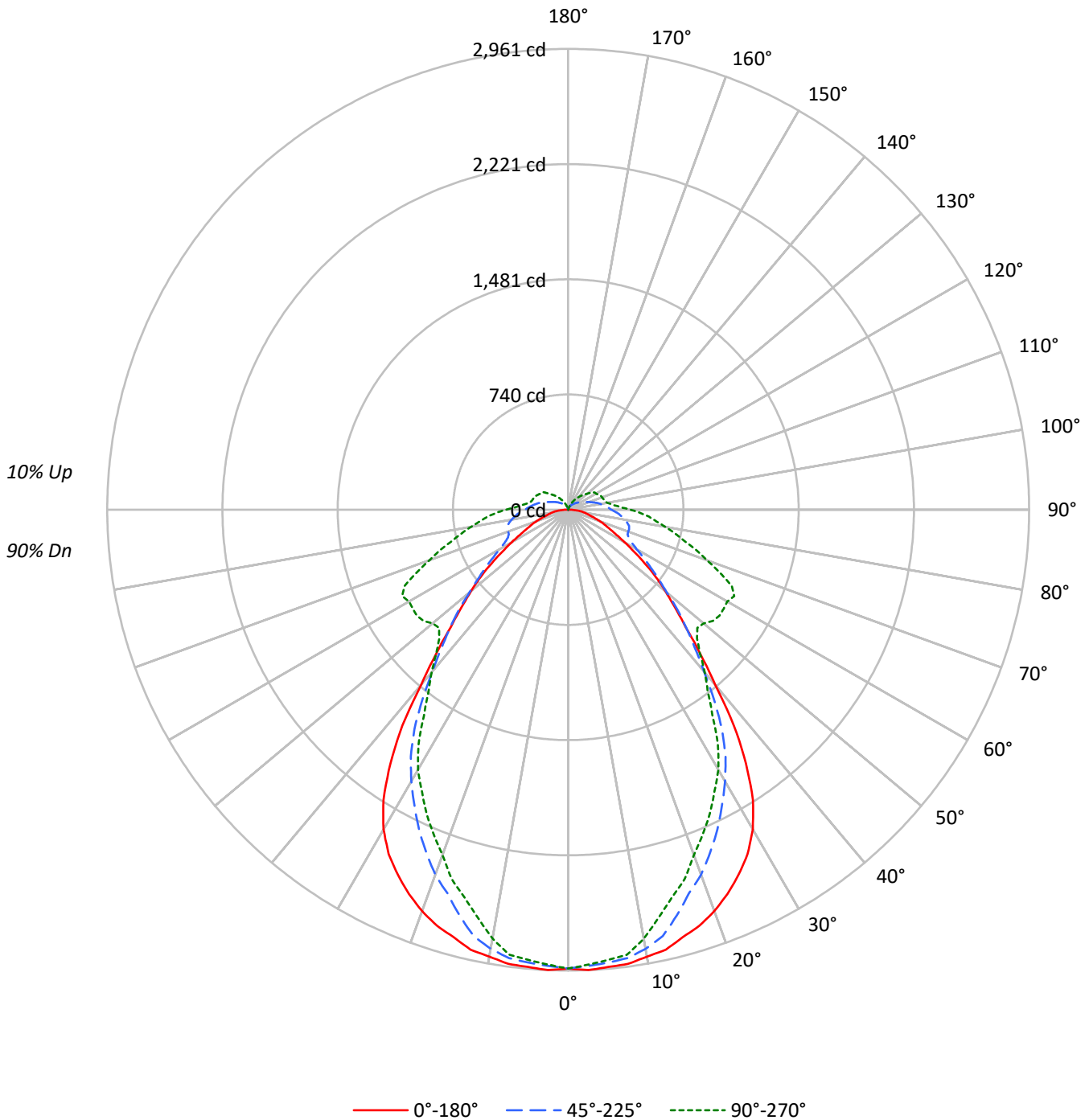
Lumens per Lamp: N/A
Luminaire Lumens: 6853.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.01 / 1.1
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 3.79' x H: 0.19')
CIE Type: Direct

Input Watts (W): 67.5
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	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	90	91	88	85	86	83	81	81	78	76	74
2	96	88	81	76	93	85	79	74	80	75	71	76	71	68	71	68	65	62
3	89	78	70	64	85	76	69	63	72	65	60	67	62	58	64	59	56	53
4	82	70	62	55	79	68	60	54	64	58	52	61	55	51	58	53	49	46
5	75	63	55	48	73	61	53	47	58	51	46	55	49	45	53	47	43	41
6	70	57	49	43	68	56	48	42	53	46	41	51	45	40	48	43	39	37
7	65	52	44	38	63	51	43	38	49	42	37	47	40	36	44	39	35	33
8	61	48	40	35	59	47	39	34	45	38	33	43	37	33	41	36	32	30
9	57	45	37	31	55	44	36	31	42	35	30	40	34	30	38	33	29	27
10	54	41	34	29	52	40	33	28	39	32	28	37	31	27	36	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26780	26780	26780
5°	26774	25609	25165
10°	26662	24447	23345
15°	26386	22588	20879
20°	26065	20664	18728
25°	25357	18722	16863
30°	24185	16704	15030
35°	21340	14450	12626
40°	16733	11605	10768
45°	13072	9436	9394
50°	10862	7550	9360
55°	8892	6196	10120
60°	7002	5139	10508
65°	5764	4634	10893
70°	5086	4821	9503
75°	4359	5238	8330
80°	4298	5361	7509
85°	4055	5463	6915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.7	4.1
10°-20°	762.6	11.1
20°-30°	1062.6	15.5
30°-40°	1095.2	16.0
40°-50°	871.3	12.7
50°-60°	678.0	9.9
60°-70°	592.7	8.6
70°-80°	499.7	7.3
80°-90°	338.7	4.9
90°-100°	214.3	3.1
100°-110°	159.0	2.3
110°-120°	122.1	1.8
120°-130°	88.2	1.3
130°-140°	51.7	0.8
140°-150°	27.2	0.4
150°-160°	10.6	0.2
160°-170°	1.6	0.0
170°-180°	0.0	0.0
0°-30°	2102.9	30.7
0°-40°	3198.1	46.7
0°-60°	4747.3	69.3
0°-90°	6178.4	90.2
90°-120°	495.4	7.2
90°-150°	662.5	9.7
90°-180°	675.0	9.8
0°-180°	6853.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2948	2948	2948	2948	2948	
5°	2949	2942	2921	2918	2904	281
15°	2843	2826	2697	2609	2577	803
25°	2588	2435	2268	2188	2153	1189
35°	1991	1879	1722	1644	1617	1225
45°	1068	1095	1072	1186	1170	843
55°	601	537	648	927	1186	541
65°	297	291	428	940	1159	301
75°	147	233	405	800	769	161
85°	61	119	328	502	521	57
90°	2	71	278	395	399	5
95°	2	64	243	313	304	2
105°	2	58	176	244	239	2
115°	2	49	117	210	221	2
125°	2	44	82	168	196	2
135°	3	35	56	106	133	2
145°	3	24	39	65	82	2
155°	3	13	24	29	39	1
165°	4	5	9	3	6	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2948.0	2948.0	2948.0	2948.0	2948.0
2.5°	2960.7	2953.5	2933.8	2936.9	2925.9
5°	2948.8	2942.5	2921.1	2917.9	2904.5
7.5°	2943.3	2929.8	2906.1	2895.8	2884.7
10°	2915.6	2900.5	2864.9	2822.2	2798.5
12.5°	2895.8	2874.4	2806.4	2719.4	2683.8
15°	2842.8	2826.2	2697.3	2608.7	2577.0
17.5°	2802.5	2753.4	2583.4	2519.3	2488.4
20°	2744.7	2662.5	2494.8	2410.9	2360.3
22.5°	2672.7	2543.0	2383.2	2301.8	2258.3
25°	2588.1	2434.7	2267.8	2187.9	2153.1
27.5°	2495.6	2304.9	2140.4	2069.2	2036.8
30°	2371.4	2183.9	2014.6	1951.4	1929.2
32.5°	2208.4	2035.2	1880.2	1818.5	1789.2
35°	1990.9	1878.6	1722.0	1644.5	1616.8
37.5°	1748.9	1703.0	1538.5	1503.7	1472.0
40°	1469.6	1491.8	1355.7	1368.4	1365.2
42.5°	1253.7	1284.6	1202.3	1283.8	1252.9
45°	1067.8	1094.7	1071.8	1185.7	1169.9
47.5°	928.6	930.2	951.6	1094.7	1124.0
50°	813.9	779.1	826.6	1014.8	1135.9
52.5°	710.3	644.7	727.7	964.2	1172.2
55°	601.1	537.1	647.8	927.0	1186.5
57.5°	498.3	443.7	570.3	904.9	1184.1
60°	418.4	374.1	507.8	897.0	1179.4
62.5°	349.6	329.0	459.6	915.2	1202.3
65°	296.6	291.1	427.9	940.5	1158.8
67.5°	255.5	268.1	412.9	972.9	1051.2
70°	217.5	255.5	410.5	950.0	947.6
72.5°	178.0	246.8	410.5	878.0	860.6
75°	147.1	233.3	405.0	800.5	768.8
77.5°	123.4	208.0	388.4	726.1	700.8
80°	105.2	177.2	369.4	648.6	632.0
82.5°	82.3	147.1	347.2	570.3	570.3
85°	60.9	118.6	327.5	502.3	521.3
87.5°	30.1	93.3	302.2	443.7	461.1
90°	2.4	71.2	277.6	394.7	398.7
92.5°	1.6	65.7	260.2	351.2	340.9
95°	2.4	64.1	242.8	313.2	304.5
97.5°	2.4	62.5	227.0	285.5	276.8
100°	1.6	60.9	210.4	267.4	254.7
102.5°	2.4	59.3	195.4	255.5	243.6
105°	2.4	57.7	176.4	244.4	238.9
107.5°	2.4	55.4	158.2	235.7	234.9
110°	2.4	53.0	143.2	224.6	231.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	51.4	128.1	214.4	228.6
115°	2.4	49.0	117.1	210.4	220.7
117.5°	2.4	47.5	108.4	209.6	213.6
120°	2.4	46.7	98.9	200.9	206.4
122.5°	2.4	45.9	90.2	186.7	204.1
125°	2.4	44.3	82.3	168.5	196.2
127.5°	2.4	42.7	75.1	151.9	177.2
130°	2.4	39.5	68.0	135.3	159.8
132.5°	2.4	37.2	61.7	117.9	145.5
135°	3.2	34.8	56.2	106.0	132.9
137.5°	3.2	32.4	49.8	94.1	120.2
140°	3.2	29.3	45.9	83.8	106.0
142.5°	3.2	26.9	41.9	74.4	94.9
145°	3.2	24.5	38.8	64.9	81.5
147.5°	3.2	22.1	36.4	57.0	69.6
150°	3.2	19.0	32.4	47.5	58.5
152.5°	3.2	15.8	29.3	38.0	47.5
155°	3.2	13.4	24.5	29.3	38.8
157.5°	3.2	11.1	20.6	21.4	28.5
160°	3.2	7.9	16.6	14.2	19.8
162.5°	4.0	6.3	12.7	7.9	11.9
165°	4.0	4.7	8.7	3.2	5.5
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)