

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: P232058

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232058
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-LD4-40-2STD-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

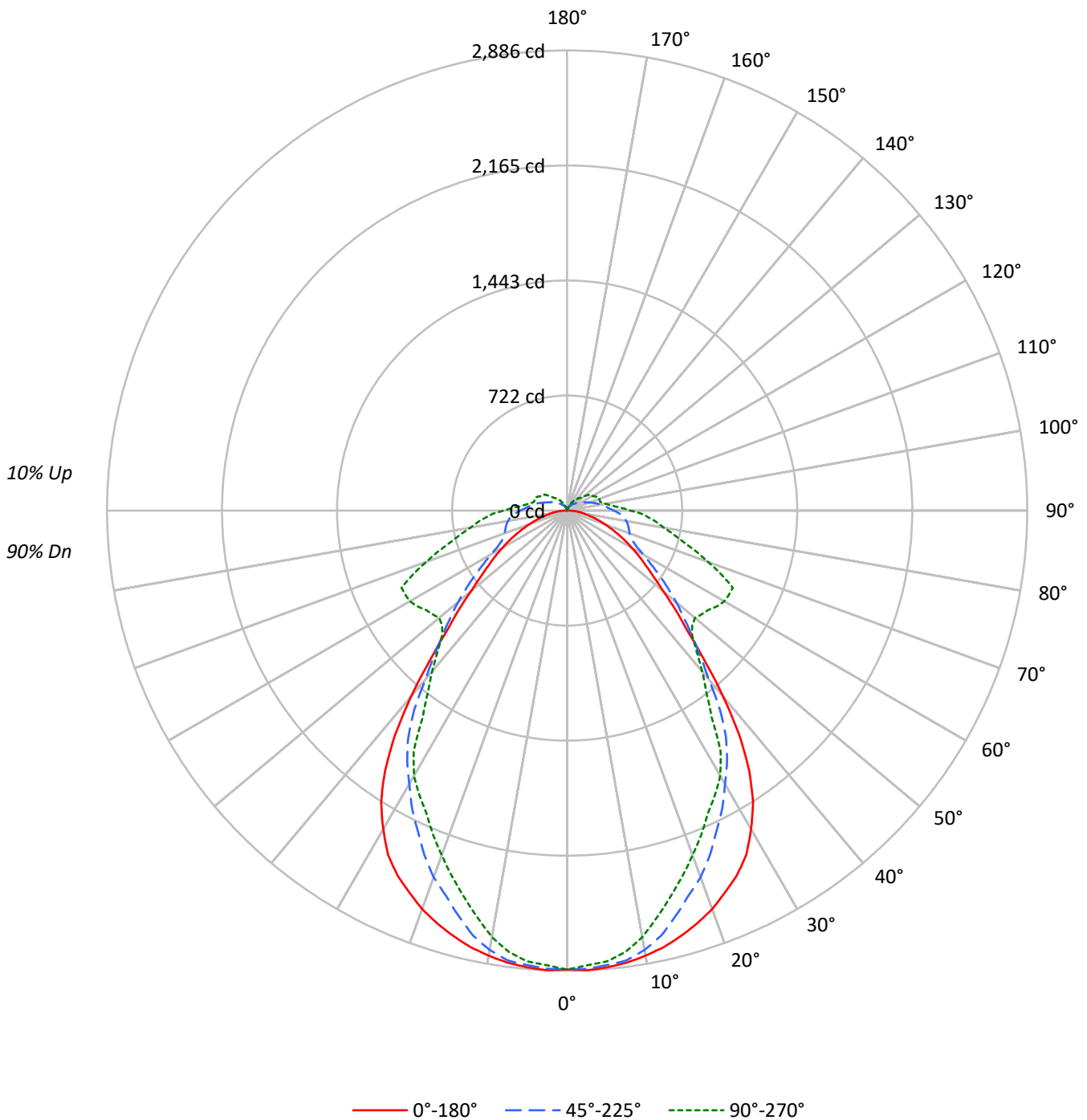
Lumens per Lamp: N/A
Luminaire Lumens: 6804.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.01 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

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°	33990	33990	33990
5°	33897	32585	31975
10°	33606	30981	29452
15°	33193	28576	26384
20°	32653	26254	23719
25°	31899	23687	21293
30°	30331	21243	19453
35°	27472	18856	16025
40°	22258	15264	13515
45°	16711	12528	11566
50°	13398	10501	11221
55°	11381	8669	12022
60°	9999	7179	13184
65°	8649	6308	14010
70°	7457	6277	12256
75°	6245	6598	10569
80°	5213	6981	9492
85°	4444	7357	8889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.7	4.0
10°-20°	741.7	10.9
20°-30°	1038.5	15.3
30°-40°	1089.5	16.0
40°-50°	873.8	12.8
50°-60°	692.2	10.2
60°-70°	600.2	8.8
70°-80°	491.5	7.2
80°-90°	344.0	5.1
90°-100°	217.5	3.2
100°-110°	154.7	2.3
110°-120°	116.3	1.7
120°-130°	83.2	1.2
130°-140°	49.7	0.7
140°-150°	27.2	0.4
150°-160°	11.4	0.2
160°-170°	1.8	0.0
170°-180°	0.0	0.0
0°-30°	2050.9	30.1
0°-40°	3140.4	46.2
0°-60°	4706.4	69.2
0°-90°	6142.0	90.3
90°-120°	488.5	7.2
90°-150°	648.7	9.5
90°-180°	662.0	9.7
0°-180°	6804.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2878	2878	2878	2878	2878	
5°	2876	2859	2862	2850	2839	273
15°	2762	2741	2632	2548	2505	779
25°	2521	2374	2216	2132	2091	1156
35°	1991	1865	1738	1640	1578	1223
45°	1065	1131	1102	1149	1108	847
55°	604	599	704	911	1084	548
65°	352	313	453	917	1146	353
75°	170	223	398	774	750	182
85°	57	131	346	496	516	56
90°	2	79	293	403	395	4
95°	1	69	250	318	301	1
105°	1	58	182	235	214	1
115°	1	46	123	192	206	1
125°	2	43	87	154	175	2
135°	2	37	60	100	112	1
145°	2	27	42	63	78	1
155°	3	15	27	34	38	1
165°	3	5	9	5	6	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°	2878.2	2878.2	2878.2	2878.2	2878.2
2.5°	2885.6	2877.3	2875.5	2861.7	2854.4
5°	2875.5	2859.0	2861.7	2849.8	2838.8
7.5°	2859.9	2844.3	2846.1	2823.2	2792.9
10°	2834.2	2821.4	2797.5	2746.1	2715.9
12.5°	2803.9	2792.0	2729.6	2650.8	2610.4
15°	2761.7	2740.6	2631.5	2548.0	2504.9
17.5°	2714.0	2656.3	2531.5	2456.3	2404.0
20°	2659.0	2575.5	2446.2	2352.7	2299.5
22.5°	2590.2	2468.2	2339.8	2235.3	2198.6
25°	2521.4	2373.8	2216.0	2131.6	2091.3
27.5°	2433.4	2255.4	2106.8	2032.6	2008.7
30°	2306.8	2143.5	1980.3	1934.4	1920.7
32.5°	2171.1	2009.6	1866.5	1810.6	1792.2
35°	1991.3	1864.7	1738.1	1640.0	1578.5
37.5°	1772.1	1702.4	1574.9	1465.7	1432.7
40°	1521.7	1508.8	1380.4	1333.6	1318.0
42.5°	1274.9	1322.6	1232.7	1236.4	1203.4
45°	1064.9	1130.9	1102.5	1149.3	1108.0
47.5°	921.8	970.4	990.6	1065.8	1063.1
50°	785.1	831.0	891.5	1006.2	1047.5
52.5°	685.2	710.8	794.3	958.5	1065.8
55°	603.5	598.9	703.5	910.8	1084.2
57.5°	536.6	506.3	620.0	883.3	1116.3
60°	470.5	421.0	551.2	880.5	1138.3
62.5°	410.9	355.0	491.6	892.5	1143.8
65°	352.2	312.8	453.1	917.2	1146.5
67.5°	300.8	280.7	430.2	932.8	1045.6
70°	254.1	254.1	416.4	916.3	940.1
72.5°	211.0	233.9	407.2	844.8	843.8
75°	169.7	222.9	398.1	774.1	750.3
77.5°	129.3	212.8	388.9	700.8	680.6
80°	104.6	190.8	376.1	621.9	614.5
82.5°	82.5	162.3	363.2	561.3	567.8
85°	56.9	131.2	345.8	496.2	515.5
87.5°	26.6	101.8	321.0	443.9	469.6
90°	1.8	78.9	292.6	402.7	395.3
92.5°	1.8	71.5	267.8	359.5	348.5
95°	0.9	68.8	249.5	318.3	300.8
97.5°	0.9	67.0	230.2	280.7	266.9
100°	0.9	64.2	215.5	254.1	245.8
102.5°	0.9	60.5	198.1	243.1	225.6
105°	0.9	57.8	181.6	234.8	213.7
107.5°	0.9	53.2	163.3	228.4	214.6
110°	0.9	50.4	147.7	215.5	213.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	47.7	134.8	201.8	213.7
115°	0.9	45.9	122.9	191.7	205.5
117.5°	0.9	44.9	113.7	188.0	193.5
120°	1.8	44.0	103.6	185.3	183.4
122.5°	1.8	44.0	95.4	171.5	177.9
125°	1.8	43.1	87.1	154.1	175.2
127.5°	1.8	41.3	79.8	138.5	157.8
130°	1.8	40.4	72.5	124.7	137.6
132.5°	1.8	38.5	66.0	111.9	122.0
135°	1.8	36.7	59.6	100.0	111.9
137.5°	1.8	33.9	55.0	89.0	104.6
140°	1.8	32.1	50.4	79.8	95.4
142.5°	1.8	29.4	45.9	70.6	86.2
145°	1.8	26.6	42.2	63.3	78.0
147.5°	2.8	23.8	38.5	56.9	66.0
150°	2.8	20.2	34.9	49.5	56.9
152.5°	2.8	17.4	31.2	42.2	47.7
155°	2.8	14.7	26.6	33.9	38.5
157.5°	2.8	11.9	22.0	25.7	30.3
160°	2.8	10.1	18.3	17.4	21.1
162.5°	2.8	7.3	13.8	10.1	12.8
165°	2.8	4.6	9.2	4.6	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)