

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: P231983

Luminaire Tested: **FVS4M-4-LD4-50-2LO-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231983
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-LD4-50-2LO-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
4FT LENGTH, 2-MODULE LED WITH P125 LENS
Light Source: (168) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

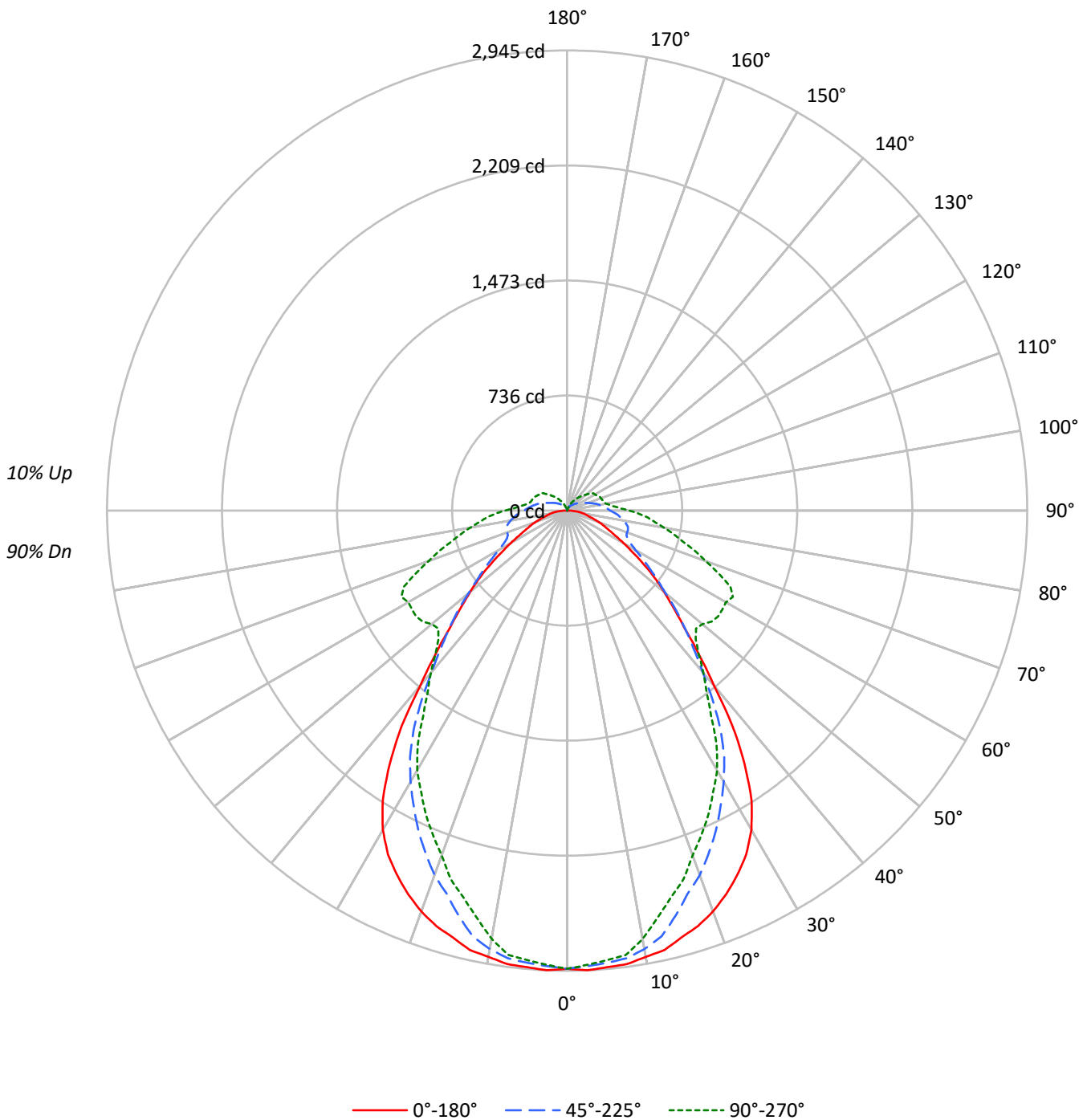
Lumens per Lamp: N/A
Luminaire Lumens: 6816.0 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.01 / 1.1
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 3.79' x H: 0.19')
CIE Type: Direct

Input Watts (W): 57.4
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°	26636	26636	26636
5°	26630	25470	25029
10°	26518	24316	23219
15°	26243	22466	20767
20°	25924	20552	18627
25°	25220	18620	16772
30°	24054	16614	14949
35°	21225	14372	12557
40°	16643	11542	10711
45°	13002	9385	9342
50°	10804	7509	9309
55°	8845	6163	10065
60°	6965	5111	10451
65°	5733	4609	10834
70°	5058	4795	9452
75°	4335	5209	8286
80°	4274	5332	7469
85°	4035	5432	6876



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.2	4.1
10°-20°	758.5	11.1
20°-30°	1056.9	15.5
30°-40°	1089.2	16.0
40°-50°	866.6	12.7
50°-60°	674.3	9.9
60°-70°	589.5	8.6
70°-80°	497.0	7.3
80°-90°	336.8	4.9
90°-100°	213.2	3.1
100°-110°	158.1	2.3
110°-120°	121.4	1.8
120°-130°	87.7	1.3
130°-140°	51.4	0.8
140°-150°	27.0	0.4
150°-160°	10.5	0.2
160°-170°	1.6	0.0
170°-180°	0.0	0.0
0°-30°	2091.6	30.7
0°-40°	3180.8	46.7
0°-60°	4721.7	69.3
0°-90°	6145.0	90.2
90°-120°	492.7	7.2
90°-150°	658.9	9.7
90°-180°	671.0	9.8
0°-180°	6816.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2932	2932	2932	2932	2932	
5°	2933	2927	2905	2902	2889	279
15°	2827	2811	2683	2595	2563	799
25°	2574	2422	2256	2176	2141	1182
35°	1980	1868	1713	1636	1608	1218
45°	1062	1089	1066	1179	1164	839
55°	598	534	644	922	1180	538
65°	295	290	426	935	1152	300
75°	146	232	403	796	765	160
85°	61	118	326	500	518	57
90°	2	71	276	393	396	5
95°	2	64	242	312	303	2
105°	2	57	175	243	238	2
115°	2	49	116	209	220	2
125°	2	44	82	168	195	2
135°	3	35	56	105	132	2
145°	3	24	38	64	81	2
155°	3	13	24	29	38	1
165°	4	5	9	3	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°	2932.1	2932.1	2932.1	2932.1	2932.1
2.5°	2944.7	2937.6	2917.9	2921.1	2910.1
5°	2932.9	2926.6	2905.3	2902.2	2888.8
7.5°	2927.4	2914.0	2890.4	2880.2	2869.1
10°	2899.8	2884.9	2849.5	2807.0	2783.4
12.5°	2880.2	2858.9	2791.3	2704.7	2669.3
15°	2827.4	2810.9	2682.7	2594.6	2563.1
17.5°	2787.3	2738.6	2569.4	2505.7	2475.0
20°	2729.9	2648.1	2481.3	2397.9	2347.6
22.5°	2658.3	2529.3	2370.4	2289.3	2246.1
25°	2574.1	2421.5	2255.5	2176.1	2141.4
27.5°	2482.1	2292.5	2128.8	2058.0	2025.8
30°	2358.6	2172.1	2003.8	1940.8	1918.8
32.5°	2196.5	2024.2	1870.0	1808.7	1779.5
35°	1980.2	1868.4	1712.7	1635.6	1608.0
37.5°	1739.4	1693.8	1530.2	1495.5	1464.1
40°	1461.7	1483.7	1348.4	1361.0	1357.9
42.5°	1246.9	1277.6	1195.8	1276.8	1246.2
45°	1062.1	1088.8	1066.0	1179.3	1163.5
47.5°	923.6	925.2	946.4	1088.8	1117.9
50°	809.5	774.9	822.1	1009.4	1129.7
52.5°	706.5	641.2	723.8	959.0	1165.9
55°	597.9	534.2	644.3	922.0	1180.1
57.5°	495.6	441.3	567.2	900.0	1177.7
60°	416.2	372.1	505.1	892.1	1173.0
62.5°	347.7	327.3	457.1	910.2	1195.8
65°	295.0	289.5	425.6	935.4	1152.5
67.5°	254.1	266.7	410.7	967.7	1045.5
70°	216.3	254.1	408.3	944.8	942.5
72.5°	177.0	245.5	408.3	873.3	855.9
75°	146.3	232.1	402.8	796.2	764.7
77.5°	122.7	206.9	386.3	722.2	697.0
80°	104.6	176.2	367.4	645.1	628.6
82.5°	81.8	146.3	345.4	567.2	567.2
85°	60.6	118.0	325.7	499.6	518.4
87.5°	29.9	92.8	300.5	441.3	458.7
90°	2.4	70.8	276.1	392.6	396.5
92.5°	1.6	65.3	258.8	349.3	339.1
95°	2.4	63.7	241.5	311.5	302.9
97.5°	2.4	62.2	225.8	284.0	275.3
100°	1.6	60.6	209.3	265.9	253.3
102.5°	2.4	59.0	194.3	254.1	242.3
105°	2.4	57.4	175.4	243.1	237.6
107.5°	2.4	55.1	157.3	234.4	233.7
110°	2.4	52.7	142.4	223.4	230.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	51.1	127.4	213.2	227.4
115°	2.4	48.8	116.4	209.3	219.5
117.5°	2.4	47.2	107.8	208.5	212.4
120°	2.4	46.4	98.3	199.8	205.3
122.5°	2.4	45.6	89.7	185.7	203.0
125°	2.4	44.1	81.8	167.6	195.1
127.5°	2.4	42.5	74.7	151.0	176.2
130°	2.4	39.3	67.7	134.5	158.9
132.5°	2.4	37.0	61.4	117.2	144.8
135°	3.1	34.6	55.9	105.4	132.2
137.5°	3.1	32.3	49.6	93.6	119.6
140°	3.1	29.1	45.6	83.4	105.4
142.5°	3.1	26.7	41.7	74.0	94.4
145°	3.1	24.4	38.5	64.5	81.0
147.5°	3.1	22.0	36.2	56.6	69.2
150°	3.1	18.9	32.3	47.2	58.2
152.5°	3.1	15.7	29.1	37.8	47.2
155°	3.1	13.4	24.4	29.1	38.5
157.5°	3.1	11.0	20.5	21.2	28.3
160°	3.1	7.9	16.5	14.2	19.7
162.5°	3.9	6.3	12.6	7.9	11.8
165°	3.9	4.7	8.7	3.1	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)