

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: P231981

Luminaire Tested: **FVS4M-4-LD4-35-2LO-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231981
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-LD4-35-2LO-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
4FT LENGTH, 2-MODULE LED WITH P125 LENS
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

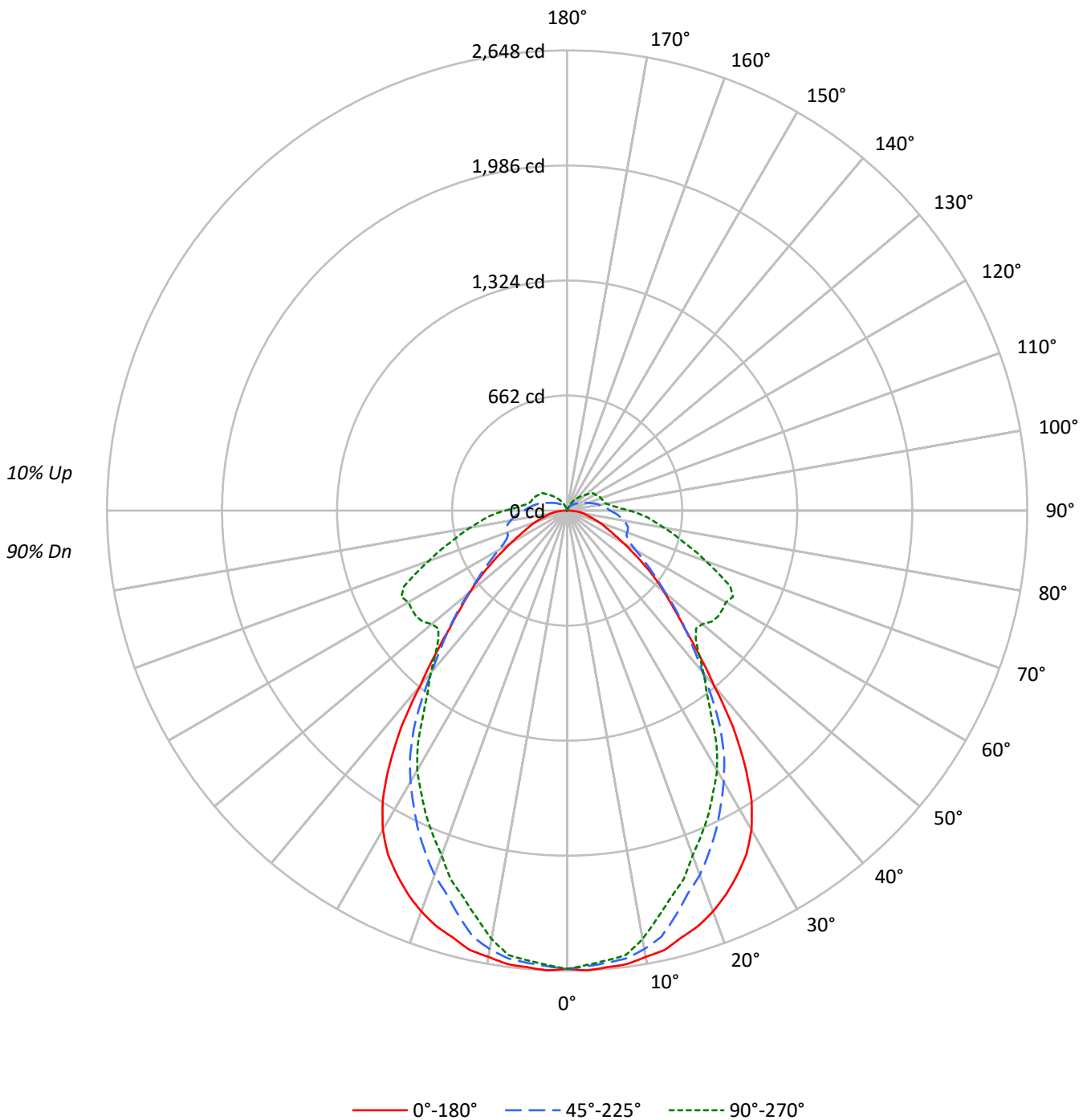
Lumens per Lamp: N/A
Luminaire Lumens: 6130.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.01 / 1.1
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 3.79' x H: 0.19')
CIE Type: Direct

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°	23955	23955	23955
5°	23949	22907	22510
10°	23849	21869	20882
15°	23603	20205	18676
20°	23315	18484	16752
25°	22682	16746	15084
30°	21633	14942	13445
35°	19089	12925	11293
40°	14968	10381	9632
45°	11693	8440	8402
50°	9717	6754	8372
55°	7954	5543	9052
60°	6264	4596	9399
65°	5156	4146	9743
70°	4550	4312	8500
75°	3899	4686	7452
80°	3845	4795	6717
85°	3629	4885	6185



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.4	4.1
10°-20°	682.1	11.1
20°-30°	950.5	15.5
30°-40°	979.6	16.0
40°-50°	779.4	12.7
50°-60°	606.4	9.9
60°-70°	530.1	8.6
70°-80°	447.0	7.3
80°-90°	302.9	4.9
90°-100°	191.7	3.1
100°-110°	142.2	2.3
110°-120°	109.2	1.8
120°-130°	78.8	1.3
130°-140°	46.3	0.8
140°-150°	24.3	0.4
150°-160°	9.4	0.2
160°-170°	1.5	0.0
170°-180°	0.0	0.0
0°-30°	1881.0	30.7
0°-40°	2860.7	46.7
0°-60°	4246.5	69.3
0°-90°	5526.5	90.2
90°-120°	443.1	7.2
90°-150°	592.5	9.7
90°-180°	603.0	9.8
0°-180°	6130.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2637	2637	2637	2637	2637	
5°	2638	2632	2613	2610	2598	251
15°	2543	2528	2413	2333	2305	719
25°	2315	2178	2028	1957	1926	1063
35°	1781	1680	1540	1471	1446	1095
45°	955	979	959	1061	1046	754
55°	538	480	580	829	1061	484
65°	265	260	383	841	1036	270
75°	132	209	362	716	688	144
85°	54	106	293	449	466	51
90°	2	64	248	353	357	4
95°	2	57	217	280	272	2
105°	2	52	158	219	214	2
115°	2	44	105	188	197	2
125°	2	40	74	151	176	2
135°	3	31	50	95	119	2
145°	3	22	35	58	73	2
155°	3	12	22	26	35	1
165°	4	4	8	3	5	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°	2637.0	2637.0	2637.0	2637.0	2637.0
2.5°	2648.3	2641.9	2624.2	2627.1	2617.2
5°	2637.7	2632.0	2612.9	2610.1	2598.1
7.5°	2632.7	2620.7	2599.5	2590.3	2580.4
10°	2608.0	2594.5	2562.7	2524.5	2503.3
12.5°	2590.3	2571.2	2510.3	2432.5	2400.7
15°	2542.9	2528.0	2412.7	2333.4	2305.1
17.5°	2506.8	2462.9	2310.8	2253.5	2225.9
20°	2455.1	2381.6	2231.6	2156.6	2111.3
22.5°	2390.8	2274.7	2131.8	2058.9	2020.0
25°	2315.1	2177.8	2028.5	1957.0	1925.9
27.5°	2232.3	2061.8	1914.6	1850.9	1821.9
30°	2121.2	1953.5	1802.1	1745.5	1725.7
32.5°	1975.4	1820.5	1681.8	1626.6	1600.4
35°	1780.9	1680.4	1540.3	1471.0	1446.2
37.5°	1564.4	1523.3	1376.2	1345.0	1316.7
40°	1314.6	1334.4	1212.7	1224.0	1221.2
42.5°	1121.4	1149.0	1075.5	1148.3	1120.7
45°	955.2	979.2	958.7	1060.6	1046.4
47.5°	830.6	832.1	851.2	979.2	1005.4
50°	728.1	696.9	739.4	907.8	1016.0
52.5°	635.4	576.6	650.9	862.5	1048.6
55°	537.7	480.4	579.5	829.2	1061.3
57.5°	445.7	396.9	510.1	809.4	1059.2
60°	374.3	334.7	454.2	802.3	1054.9
62.5°	312.7	294.3	411.1	818.6	1075.5
65°	265.3	260.4	382.8	841.3	1036.5
67.5°	228.5	239.9	369.3	870.3	940.3
70°	194.6	228.5	367.2	849.7	847.6
72.5°	159.2	220.8	367.2	785.4	769.8
75°	131.6	208.7	362.3	716.0	687.7
77.5°	110.4	186.1	347.4	649.5	626.9
80°	94.1	158.5	330.4	580.2	565.3
82.5°	73.6	131.6	310.6	510.1	510.1
85°	54.5	106.1	292.9	449.3	466.3
87.5°	26.9	83.5	270.3	396.9	412.5
90°	2.1	63.7	248.3	353.1	356.6
92.5°	1.4	58.7	232.8	314.1	304.9
95°	2.1	57.3	217.2	280.2	272.4
97.5°	2.1	55.9	203.1	255.4	247.6
100°	1.4	54.5	188.2	239.1	227.8
102.5°	2.1	53.1	174.8	228.5	217.9
105°	2.1	51.7	157.8	218.6	213.7
107.5°	2.1	49.5	141.5	210.8	210.1
110°	2.1	47.4	128.1	200.9	207.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.1	46.0	114.6	191.7	204.5
115°	2.1	43.9	104.7	188.2	197.4
117.5°	2.1	42.5	96.9	187.5	191.0
120°	2.1	41.7	88.4	179.7	184.7
122.5°	2.1	41.0	80.7	167.0	182.5
125°	2.1	39.6	73.6	150.7	175.5
127.5°	2.1	38.2	67.2	135.8	158.5
130°	2.1	35.4	60.8	121.0	142.9
132.5°	2.1	33.3	55.2	105.4	130.2
135°	2.8	31.1	50.2	94.8	118.9
137.5°	2.8	29.0	44.6	84.2	107.5
140°	2.8	26.2	41.0	75.0	94.8
142.5°	2.8	24.1	37.5	66.5	84.9
145°	2.8	21.9	34.7	58.0	72.9
147.5°	2.8	19.8	32.5	50.9	62.3
150°	2.8	17.0	29.0	42.5	52.4
152.5°	2.8	14.2	26.2	34.0	42.5
155°	2.8	12.0	21.9	26.2	34.7
157.5°	2.8	9.9	18.4	19.1	25.5
160°	2.8	7.1	14.9	12.7	17.7
162.5°	3.5	5.7	11.3	7.1	10.6
165°	3.5	4.2	7.8	2.8	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)