

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: P232059

Luminaire Tested: **FVS4M-3-LD4-50-2STD-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232059
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-LD4-50-2STD-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
3FT LENGTH, 2-MODULE LED WITH P125 LENS
Light Source: (168) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

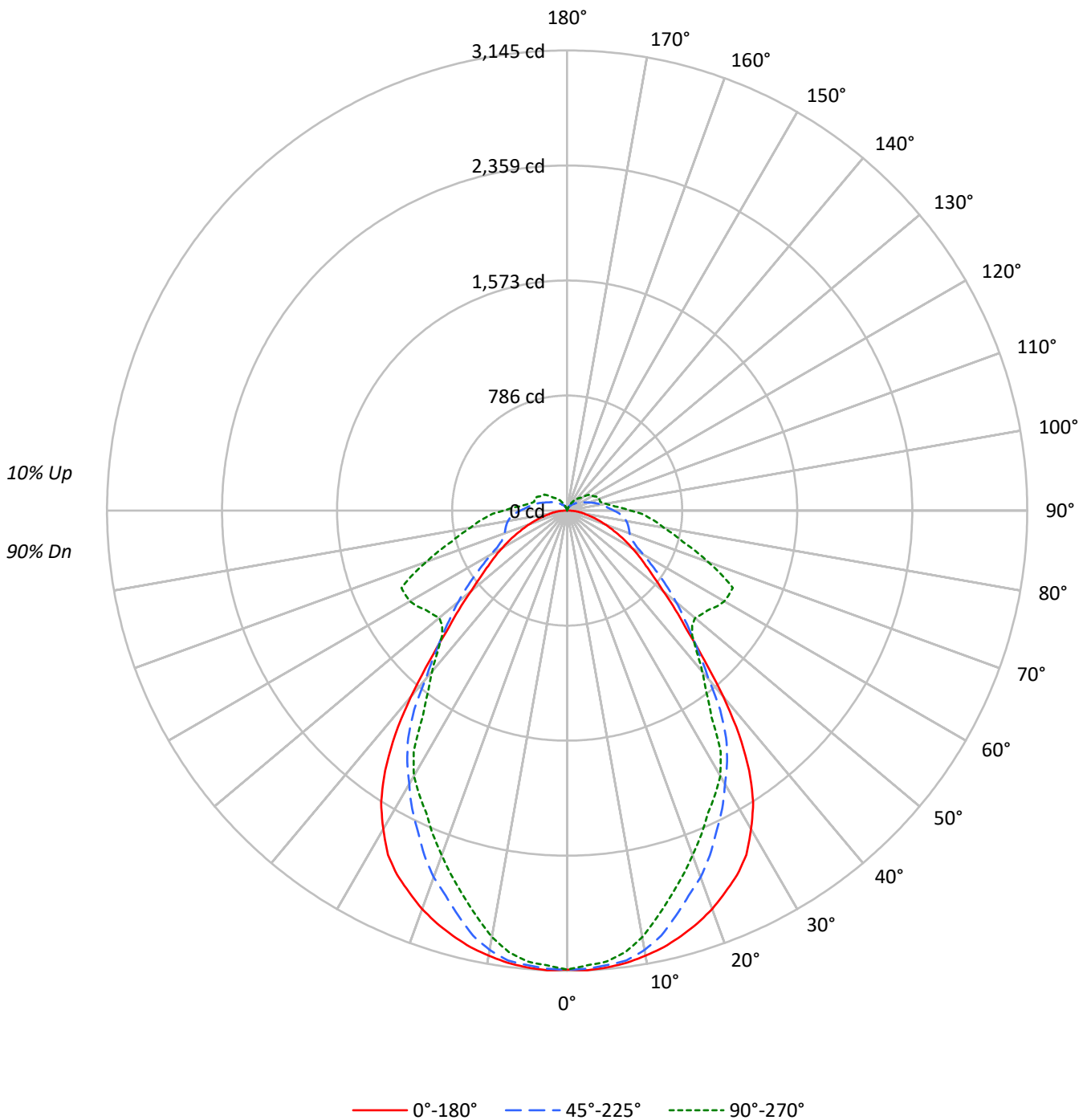
Lumens per Lamp: N/A
Luminaire Lumens: 7416.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.01 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

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°	37048	37048	37048
5°	36946	35516	34850
10°	36628	33767	32102
15°	36180	31147	28757
20°	35590	28615	25852
25°	34768	25817	23208
30°	33059	23154	21202
35°	29942	20553	17466
40°	24259	16638	14731
45°	18214	13656	12606
50°	14604	11445	12230
55°	12405	9449	13103
60°	10901	7824	14370
65°	9428	6876	15270
70°	8126	6842	13359
75°	6804	7191	11520
80°	5682	7608	10346
85°	4843	8019	9687



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.0	4.0
10°-20°	808.4	10.9
20°-30°	1131.9	15.3
30°-40°	1187.4	16.0
40°-50°	952.4	12.8
50°-60°	754.5	10.2
60°-70°	654.2	8.8
70°-80°	535.6	7.2
80°-90°	374.9	5.1
90°-100°	237.1	3.2
100°-110°	168.6	2.3
110°-120°	126.8	1.7
120°-130°	90.7	1.2
130°-140°	54.2	0.7
140°-150°	29.7	0.4
150°-160°	12.4	0.2
160°-170°	2.0	0.0
170°-180°	0.0	0.0
0°-30°	2235.4	30.1
0°-40°	3422.8	46.2
0°-60°	5129.8	69.2
0°-90°	6694.5	90.3
90°-120°	532.5	7.2
90°-150°	707.1	9.5
90°-180°	722.0	9.7
0°-180°	7416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3137	3137	3137	3137	3137	
5°	3134	3116	3119	3106	3094	298
15°	3010	2987	2868	2777	2730	849
25°	2748	2587	2415	2323	2279	1260
35°	2170	2032	1894	1788	1720	1333
45°	1161	1233	1202	1253	1208	923
55°	658	653	767	993	1182	597
65°	384	341	494	1000	1250	384
75°	185	243	434	844	818	198
85°	62	143	377	541	562	61
90°	2	86	319	439	431	5
95°	1	75	272	347	328	1
105°	1	63	198	256	233	1
115°	1	50	134	209	224	1
125°	2	47	95	168	191	2
135°	2	40	65	109	122	2
145°	2	29	46	69	85	1
155°	3	16	29	37	42	1
165°	3	5	10	5	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°	3137.1	3137.1	3137.1	3137.1	3137.1
2.5°	3145.1	3136.1	3134.1	3119.1	3111.1
5°	3134.1	3116.1	3119.1	3106.1	3094.1
7.5°	3117.1	3100.1	3102.1	3077.1	3044.1
10°	3089.1	3075.1	3049.1	2993.2	2960.2
12.5°	3056.1	3043.1	2975.2	2889.2	2845.2
15°	3010.2	2987.2	2868.2	2777.2	2730.2
17.5°	2958.2	2895.2	2759.2	2677.2	2620.3
20°	2898.2	2807.2	2666.2	2564.3	2506.3
22.5°	2823.2	2690.2	2550.3	2436.3	2396.3
25°	2748.2	2587.3	2415.3	2323.3	2279.4
27.5°	2652.3	2458.3	2296.4	2215.4	2189.4
30°	2514.3	2336.3	2158.4	2108.4	2093.4
32.5°	2366.3	2190.4	2034.4	1973.4	1953.4
35°	2170.4	2032.4	1894.5	1787.5	1720.5
37.5°	1931.5	1855.5	1716.5	1597.5	1561.6
40°	1658.5	1644.5	1504.6	1453.6	1436.6
42.5°	1389.6	1441.6	1343.6	1347.6	1311.6
45°	1160.7	1232.7	1201.7	1252.6	1207.7
47.5°	1004.7	1057.7	1079.7	1161.7	1158.7
50°	855.8	905.7	971.7	1096.7	1141.7
52.5°	746.8	774.8	865.8	1044.7	1161.7
55°	657.8	652.8	766.8	992.7	1181.7
57.5°	584.8	551.8	675.8	962.7	1216.7
60°	512.9	458.9	600.8	959.7	1240.7
62.5°	447.9	386.9	535.8	972.7	1246.6
65°	383.9	340.9	493.9	999.7	1249.6
67.5°	327.9	305.9	468.9	1016.7	1139.7
70°	276.9	276.9	453.9	998.7	1024.7
72.5°	229.9	254.9	443.9	920.7	919.7
75°	184.9	242.9	433.9	843.8	817.8
77.5°	141.0	231.9	423.9	763.8	741.8
80°	114.0	207.9	409.9	677.8	669.8
82.5°	90.0	177.0	395.9	611.8	618.8
85°	62.0	143.0	376.9	540.8	561.8
87.5°	29.0	111.0	349.9	483.9	511.9
90°	2.0	86.0	318.9	438.9	430.9
92.5°	2.0	78.0	291.9	391.9	379.9
95°	1.0	75.0	271.9	346.9	327.9
97.5°	1.0	73.0	250.9	305.9	290.9
100°	1.0	70.0	234.9	276.9	267.9
102.5°	1.0	66.0	215.9	264.9	245.9
105°	1.0	63.0	197.9	255.9	232.9
107.5°	1.0	58.0	177.9	248.9	233.9
110°	1.0	55.0	161.0	234.9	232.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	52.0	147.0	219.9	232.9
115°	1.0	50.0	134.0	208.9	223.9
117.5°	1.0	49.0	124.0	204.9	210.9
120°	2.0	48.0	113.0	201.9	199.9
122.5°	2.0	48.0	104.0	186.9	193.9
125°	2.0	47.0	95.0	168.0	190.9
127.5°	2.0	45.0	87.0	151.0	172.0
130°	2.0	44.0	79.0	136.0	150.0
132.5°	2.0	42.0	72.0	122.0	133.0
135°	2.0	40.0	65.0	109.0	122.0
137.5°	2.0	37.0	60.0	97.0	114.0
140°	2.0	35.0	55.0	87.0	104.0
142.5°	2.0	32.0	50.0	77.0	94.0
145°	2.0	29.0	46.0	69.0	85.0
147.5°	3.0	26.0	42.0	62.0	72.0
150°	3.0	22.0	38.0	54.0	62.0
152.5°	3.0	19.0	34.0	46.0	52.0
155°	3.0	16.0	29.0	37.0	42.0
157.5°	3.0	13.0	24.0	28.0	33.0
160°	3.0	11.0	20.0	19.0	23.0
162.5°	3.0	8.0	15.0	11.0	14.0
165°	3.0	5.0	10.0	5.0	6.0
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)