

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: P232060

Luminaire Tested: **FVS4M-3-LD4-30-2HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232060
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-LD4-30-2HI-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
3FT LENGTH, 2-MODULE LED WITH P125 LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

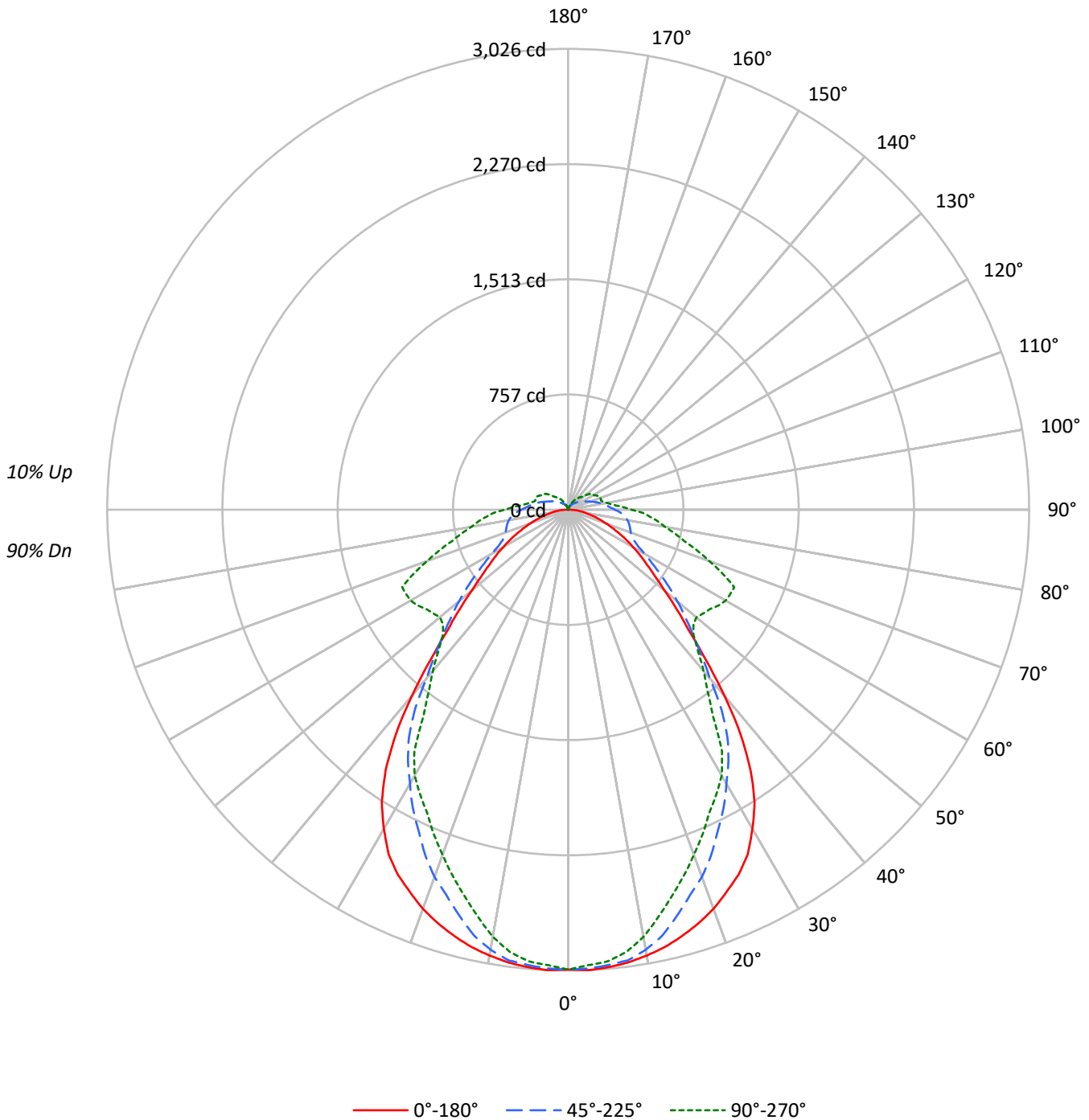
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7136.0 lumens
Efficiency: N/A
Efficacy: 99.5 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): 71.7
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

TEST NUMBER: P232060
CATALOG NUMBER: FVS4M-3-LD4-30-2HI-P125-UNV-EDC1

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°	35649	35649	35649
5°	35551	34176	33535
10°	35246	32493	30889
15°	34813	29971	27671
20°	34247	27535	24876
25°	33456	24843	22332
30°	31811	22280	20402
35°	28811	19776	16807
40°	23344	16010	14175
45°	17527	13140	12130
50°	14051	11013	11769
55°	11937	9092	12608
60°	10488	7529	13827
65°	9072	6615	14695
70°	7821	6583	12855
75°	6550	6920	11084
80°	5467	7321	9955
85°	4655	7716	9322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.9	4.0
10°-20°	777.9	10.9
20°-30°	1089.2	15.3
30°-40°	1142.6	16.0
40°-50°	916.5	12.8
50°-60°	726.0	10.2
60°-70°	629.5	8.8
70°-80°	515.4	7.2
80°-90°	360.7	5.1
90°-100°	228.1	3.2
100°-110°	162.3	2.3
110°-120°	122.0	1.7
120°-130°	87.3	1.2
130°-140°	52.1	0.7
140°-150°	28.6	0.4
150°-160°	11.9	0.2
160°-170°	1.9	0.0
170°-180°	0.0	0.0
0°-30°	2151.0	30.1
0°-40°	3293.6	46.2
0°-60°	4936.1	69.2
0°-90°	6441.8	90.3
90°-120°	512.4	7.2
90°-150°	680.4	9.5
90°-180°	694.0	9.7
0°-180°	7136.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3019	3019	3019	3019	3019	
5°	3016	2998	3001	2989	2977	287
15°	2896	2874	2760	2672	2627	817
25°	2644	2490	2324	2236	2193	1212
35°	2088	1956	1823	1720	1656	1283
45°	1117	1186	1156	1205	1162	888
55°	633	628	738	955	1137	574
65°	369	328	475	962	1202	370
75°	178	234	418	812	787	191
85°	60	138	363	520	541	58
90°	2	83	307	422	415	5
95°	1	72	262	334	316	1
105°	1	61	190	246	224	1
115°	1	48	129	201	216	1
125°	2	45	91	162	184	2
135°	2	38	62	105	117	1
145°	2	28	44	66	82	1
155°	3	15	28	36	40	1
165°	3	5	10	5	6	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P232060

CATALOG NUMBER: FVS4M-3-LD4-30-2HI-P125-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3018.7	3018.7	3018.7	3018.7	3018.7
2.5°	3026.4	3017.7	3015.8	3001.4	2993.7
5°	3015.8	2998.5	3001.4	2988.8	2977.3
7.5°	2999.4	2983.1	2985.0	2961.0	2929.2
10°	2972.5	2959.0	2934.0	2880.1	2848.4
12.5°	2940.8	2928.2	2862.8	2780.1	2737.8
15°	2896.5	2874.4	2759.9	2672.4	2627.1
17.5°	2846.5	2785.9	2655.0	2576.2	2521.3
20°	2788.8	2701.2	2565.6	2467.5	2411.7
22.5°	2716.6	2588.7	2454.0	2344.3	2305.8
25°	2644.5	2489.6	2324.1	2235.6	2193.3
27.5°	2552.1	2365.5	2209.7	2131.7	2106.7
30°	2419.4	2248.1	2076.9	2028.8	2014.4
32.5°	2277.0	2107.7	1957.6	1898.9	1879.7
35°	2088.4	1955.7	1822.9	1720.0	1655.6
37.5°	1858.5	1785.4	1651.7	1537.2	1502.6
40°	1595.9	1582.4	1447.8	1398.7	1382.4
42.5°	1337.1	1387.2	1292.9	1296.7	1262.1
45°	1116.9	1186.1	1156.3	1205.4	1162.1
47.5°	966.8	1017.8	1038.9	1117.8	1114.9
50°	823.4	871.5	935.0	1055.3	1098.6
52.5°	718.6	745.5	833.1	1005.3	1117.8
55°	633.0	628.2	737.8	955.2	1137.1
57.5°	562.8	531.0	650.3	926.4	1170.7
60°	493.5	441.5	578.1	923.5	1193.8
62.5°	431.0	372.3	515.6	936.0	1199.6
65°	369.4	328.0	475.2	962.0	1202.5
67.5°	315.5	294.4	451.2	978.3	1096.6
70°	266.5	266.5	436.7	961.0	986.0
72.5°	221.3	245.3	427.1	886.0	885.0
75°	178.0	233.8	417.5	811.9	786.9
77.5°	135.6	223.2	407.9	734.9	713.8
80°	109.7	200.1	394.4	652.2	644.5
82.5°	86.6	170.3	380.9	588.7	595.5
85°	59.6	137.6	362.7	520.4	540.6
87.5°	27.9	106.8	336.7	465.6	492.5
90°	1.9	82.7	306.9	422.3	414.6
92.5°	1.9	75.0	280.9	377.1	365.5
95°	1.0	72.1	261.7	333.8	315.5
97.5°	1.0	70.2	241.5	294.4	279.9
100°	1.0	67.3	226.1	266.5	257.8
102.5°	1.0	63.5	207.8	254.9	236.6
105°	1.0	60.6	190.5	246.3	224.1
107.5°	1.0	55.8	171.2	239.5	225.1
110°	1.0	52.9	154.9	226.1	224.1



TEST NUMBER: P232060

CATALOG NUMBER: FVS4M-3-LD4-30-2HI-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	50.0	141.4	211.6	224.1
115°	1.0	48.1	128.9	201.1	215.5
117.5°	1.0	47.1	119.3	197.2	203.0
120°	1.9	46.2	108.7	194.3	192.4
122.5°	1.9	46.2	100.0	179.9	186.6
125°	1.9	45.2	91.4	161.6	183.7
127.5°	1.9	43.3	83.7	145.3	165.5
130°	1.9	42.3	76.0	130.8	144.3
132.5°	1.9	40.4	69.3	117.4	127.9
135°	1.9	38.5	62.5	104.9	117.4
137.5°	1.9	35.6	57.7	93.3	109.7
140°	1.9	33.7	52.9	83.7	100.0
142.5°	1.9	30.8	48.1	74.1	90.4
145°	1.9	27.9	44.3	66.4	81.8
147.5°	2.9	25.0	40.4	59.6	69.3
150°	2.9	21.2	36.6	51.9	59.6
152.5°	2.9	18.3	32.7	44.3	50.0
155°	2.9	15.4	27.9	35.6	40.4
157.5°	2.9	12.5	23.1	26.9	31.7
160°	2.9	10.6	19.2	18.3	22.1
162.5°	2.9	7.7	14.4	10.6	13.5
165°	2.9	4.8	9.6	4.8	5.8
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)