

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: P232063

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232063
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-LD4-50-2HI-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

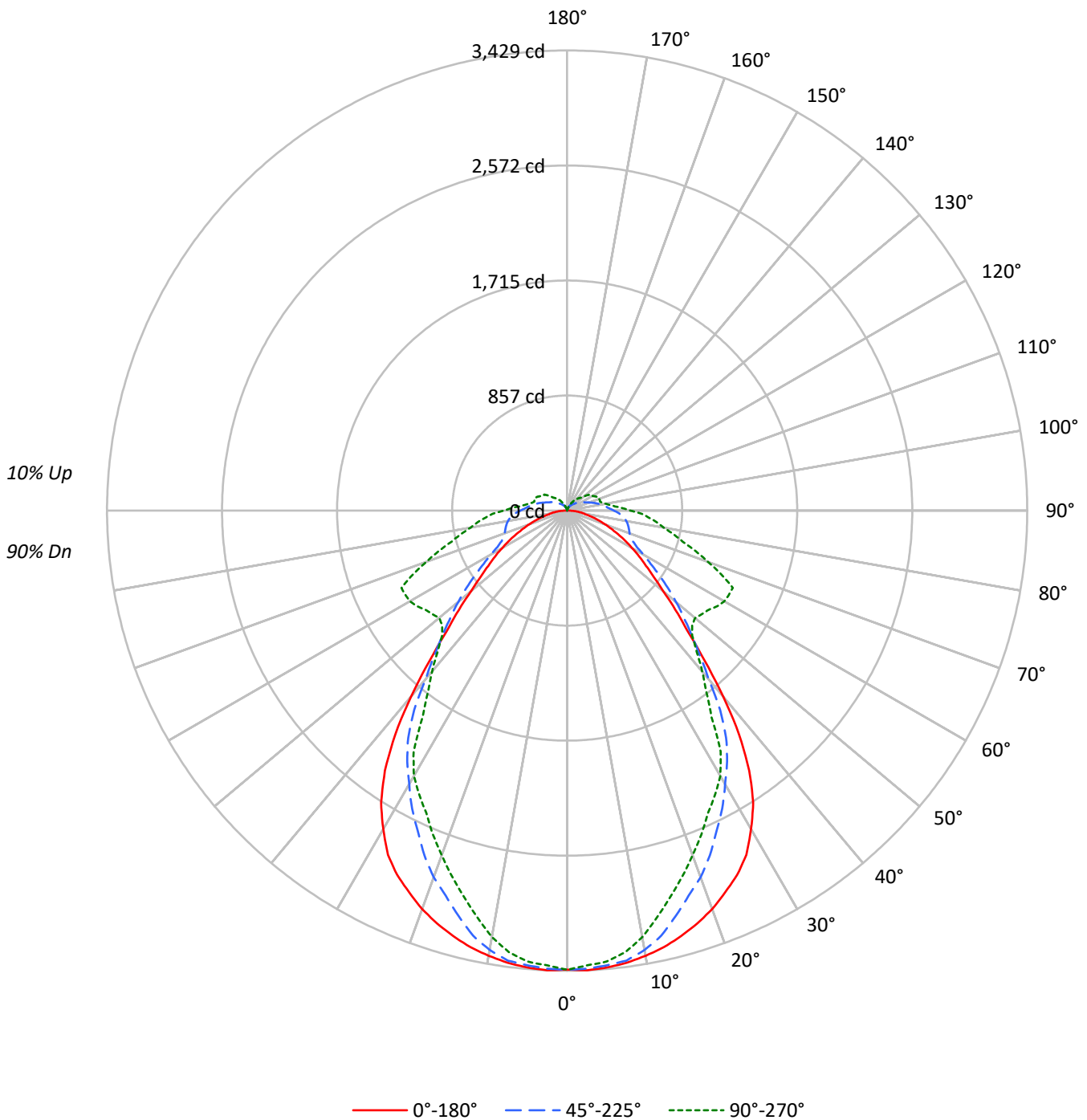
Lumens per Lamp: N/A
Luminaire Lumens: 8086.0 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.01 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

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: P232063

CATALOG NUMBER: FVS4M-3-LD4-50-2HI-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°	40395	40395	40395
5°	40284	38725	37999
10°	39938	36818	35001
15°	39448	33961	31355
20°	38805	31201	28187
25°	37909	28150	25305
30°	36045	25246	23117
35°	32648	22409	19045
40°	26452	18140	16062
45°	19859	14889	13745
50°	15923	12480	13335
55°	13525	10303	14286
60°	11885	8532	15667
65°	10280	7496	16650
70°	8859	7460	14566
75°	7423	7841	12561
80°	6195	8295	11281
85°	5280	8742	10563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.7	4.0
10°-20°	881.5	10.9
20°-30°	1234.2	15.3
30°-40°	1294.7	16.0
40°-50°	1038.5	12.8
50°-60°	822.7	10.2
60°-70°	713.3	8.8
70°-80°	584.0	7.2
80°-90°	408.8	5.1
90°-100°	258.5	3.2
100°-110°	183.9	2.3
110°-120°	138.2	1.7
120°-130°	98.9	1.2
130°-140°	59.1	0.7
140°-150°	32.4	0.4
150°-160°	13.5	0.2
160°-170°	2.2	0.0
170°-180°	0.0	0.0
0°-30°	2437.3	30.1
0°-40°	3732.1	46.2
0°-60°	5593.2	69.2
0°-90°	7299.3	90.3
90°-120°	580.6	7.2
90°-150°	771.0	9.5
90°-180°	787.0	9.7
0°-180°	8086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3420	3420	3420	3420	3420	
5°	3417	3398	3401	3387	3374	325
15°	3282	3257	3127	3028	2977	926
25°	2996	2821	2634	2533	2485	1374
35°	2366	2216	2066	1949	1876	1453
45°	1266	1344	1310	1366	1317	1007
55°	717	712	836	1082	1288	651
65°	419	372	538	1090	1362	419
75°	202	265	473	920	892	216
85°	68	156	411	590	613	66
90°	2	94	348	478	470	5
95°	1	82	296	378	358	1
105°	1	69	216	279	254	1
115°	1	54	146	228	244	1
125°	2	51	104	183	208	2
135°	2	44	71	119	133	2
145°	2	32	50	75	93	2
155°	3	17	32	40	46	2
165°	3	6	11	6	6	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P232063

CATALOG NUMBER: FVS4M-3-LD4-50-2HI-P125-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3420.5	3420.5	3420.5	3420.5	3420.5
2.5°	3429.3	3419.4	3417.3	3400.9	3392.2
5°	3417.3	3397.6	3400.9	3386.7	3373.7
7.5°	3398.7	3380.2	3382.4	3355.1	3319.2
10°	3368.2	3353.0	3324.6	3263.6	3227.6
12.5°	3332.2	3318.1	3244.0	3150.2	3102.2
15°	3282.1	3257.0	3127.3	3028.1	2976.9
17.5°	3225.4	3156.8	3008.5	2919.1	2857.0
20°	3160.0	3060.8	2907.1	2795.9	2732.7
22.5°	3078.3	2933.3	2780.7	2656.4	2612.8
25°	2996.5	2821.0	2633.5	2533.2	2485.3
27.5°	2891.9	2680.4	2503.8	2415.5	2387.2
30°	2741.4	2547.4	2353.4	2298.9	2282.5
32.5°	2580.1	2388.3	2218.2	2151.7	2129.9
35°	2366.5	2216.0	2065.6	1949.0	1876.0
37.5°	2106.0	2023.1	1871.6	1741.9	1702.6
40°	1808.4	1793.1	1640.5	1584.9	1566.4
42.5°	1515.2	1571.8	1465.0	1469.4	1430.1
45°	1265.5	1344.0	1310.2	1365.8	1316.8
47.5°	1095.5	1153.3	1177.2	1266.6	1263.4
50°	933.1	987.6	1059.5	1195.8	1244.8
52.5°	814.3	844.8	944.0	1139.1	1266.6
55°	717.2	711.8	836.1	1082.4	1288.4
57.5°	637.7	601.7	736.9	1049.7	1326.6
60°	559.2	500.3	655.1	1046.4	1352.7
62.5°	488.3	421.8	584.3	1060.6	1359.3
65°	418.6	371.7	538.5	1090.0	1362.5
67.5°	357.5	333.6	511.2	1108.6	1242.6
70°	301.9	301.9	494.9	1088.9	1117.3
72.5°	250.7	278.0	484.0	1003.9	1002.8
75°	201.7	264.9	473.1	920.0	891.7
77.5°	153.7	252.9	462.2	832.8	808.8
80°	124.3	226.7	446.9	739.0	730.3
82.5°	98.1	192.9	431.7	667.1	674.7
85°	67.6	155.9	410.9	589.7	612.6
87.5°	31.6	121.0	381.5	527.6	558.1
90°	2.2	93.7	347.7	478.5	469.8
92.5°	2.2	85.0	318.3	427.3	414.2
95°	1.1	81.8	296.5	378.2	357.5
97.5°	1.1	79.6	273.6	333.6	317.2
100°	1.1	76.3	256.2	301.9	292.1
102.5°	1.1	71.9	235.4	288.9	268.1
105°	1.1	68.7	215.8	279.0	254.0
107.5°	1.1	63.2	194.0	271.4	255.1
110°	1.1	60.0	175.5	256.2	254.0



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CATALOG NUMBER: FVS4M-3-LD4-50-2HI-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	56.7	160.2	239.8	254.0
115°	1.1	54.5	146.1	227.8	244.2
117.5°	1.1	53.4	135.2	223.5	230.0
120°	2.2	52.3	123.2	220.2	218.0
122.5°	2.2	52.3	113.4	203.8	211.5
125°	2.2	51.2	103.6	183.1	208.2
127.5°	2.2	49.1	94.8	164.6	187.5
130°	2.2	48.0	86.1	148.2	163.5
132.5°	2.2	45.8	78.5	133.0	145.0
135°	2.2	43.6	70.9	118.8	133.0
137.5°	2.2	40.3	65.4	105.7	124.3
140°	2.2	38.2	60.0	94.8	113.4
142.5°	2.2	34.9	54.5	83.9	102.5
145°	2.2	31.6	50.1	75.2	92.7
147.5°	3.3	28.3	45.8	67.6	78.5
150°	3.3	24.0	41.4	58.9	67.6
152.5°	3.3	20.7	37.1	50.1	56.7
155°	3.3	17.4	31.6	40.3	45.8
157.5°	3.3	14.2	26.2	30.5	36.0
160°	3.3	12.0	21.8	20.7	25.1
162.5°	3.3	8.7	16.4	12.0	15.3
165°	3.3	5.5	10.9	5.5	6.5
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)