

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: P232017

Luminaire Tested: **FVS4M-3-LD4-35-1LO-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4M-3-LD4-35-1LO-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
3FT LENGTH, 1-MODULE LED WITH P125 LENS
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

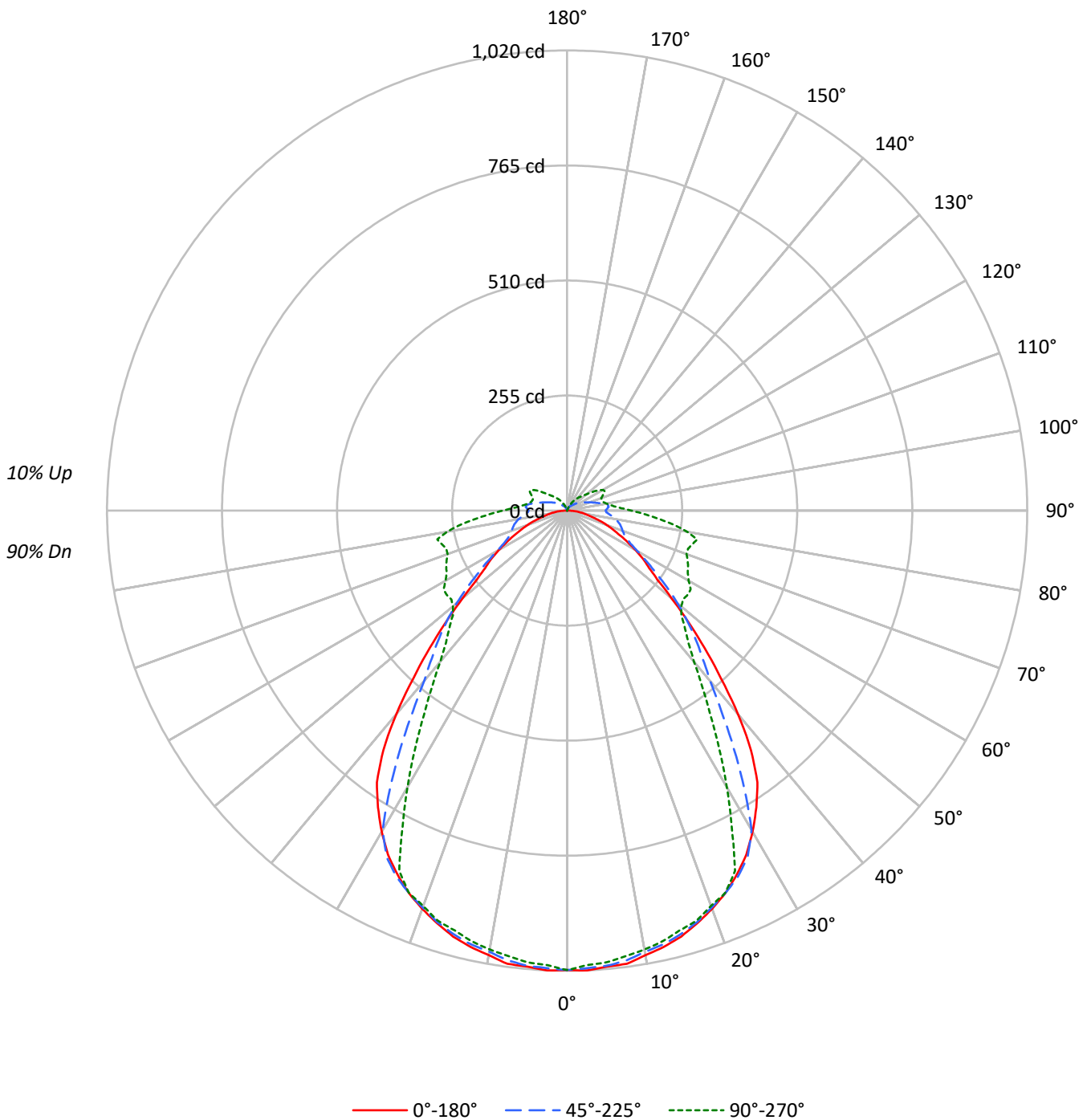
Lumens per Lamp: N/A
Luminaire Lumens: 2429.0 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

Input Watts (W): 21.3
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	98	94	90	92	88	85	86	83	81	81	79	77	74
2	97	89	82	76	93	86	80	75	81	76	71	76	72	68	72	68	65	63
3	89	79	71	65	86	77	69	64	72	66	61	68	63	59	64	60	57	54
4	82	71	62	56	79	69	61	55	65	59	53	62	56	52	58	54	50	48
5	76	64	56	49	73	62	54	49	59	52	47	56	50	46	53	48	44	42
6	71	58	50	44	68	57	49	43	54	47	42	51	45	41	49	44	40	38
7	66	53	45	39	64	52	44	39	50	43	38	47	41	37	45	40	36	34
8	62	49	41	35	60	48	40	35	46	39	34	44	38	33	42	37	33	31
9	58	45	37	32	56	44	37	32	42	36	31	41	35	31	39	34	30	28
10	54	42	34	29	53	41	34	29	39	33	29	38	32	28	36	31	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12027	12027	12027
5°	11960	11531	11321
10°	11866	10998	10714
15°	11746	10559	10147
20°	11536	10048	9619
25°	11261	9569	8967
30°	10807	8770	7173
35°	10144	6991	5618
40°	8630	5449	4483
45°	6751	4573	3858
50°	5164	3766	3539
55°	4181	2943	3615
60°	3706	2336	3600
65°	3148	2014	3613
70°	2726	1972	3674
75°	2256	2020	4048
80°	1889	2018	4168
85°	1484	1989	3475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	4.0
10°-20°	274.0	11.3
20°-30°	405.0	16.7
30°-40°	405.1	16.7
40°-50°	312.4	12.9
50°-60°	231.6	9.5
60°-70°	177.8	7.3
70°-80°	160.5	6.6
80°-90°	125.1	5.1
90°-100°	76.4	3.1
100°-110°	56.3	2.3
110°-120°	47.3	1.9
120°-130°	31.7	1.3
130°-140°	17.5	0.7
140°-150°	8.8	0.4
150°-160°	3.2	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	775.0	31.9
0°-40°	1180.1	48.6
0°-60°	1724.1	71.0
0°-90°	2187.5	90.1
90°-120°	180.0	7.4
90°-150°	238.0	9.8
90°-180°	242.0	10.0
0°-180°	2429.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1018	1018	1018	1018	1018	
5°	1015	1011	1013	1010	1005	97
15°	977	970	972	970	963	275
25°	890	891	895	896	881	409
35°	735	742	644	577	553	451
45°	430	409	402	393	370	334
55°	222	224	239	286	326	204
65°	128	114	145	237	296	129
75°	61	79	122	231	287	66
85°	19	46	94	212	202	19
90°	0	25	85	149	142	1
95°	0	22	92	111	106	0
105°	0	18	66	83	81	0
115°	0	15	43	91	90	0
125°	0	14	29	59	75	0
135°	0	11	18	37	45	0
145°	0	8	12	22	28	0
155°	0	3	7	11	13	0
165°	1	1	1	1	1	0
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°	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1020.3	1015.8	1015.2	1012.1	1008.3
5°	1014.6	1010.8	1012.7	1009.5	1005.1
7.5°	1013.3	1007.6	1005.7	996.9	996.3
10°	1000.7	999.4	993.1	993.1	988.0
12.5°	990.6	985.5	984.9	981.7	977.9
15°	977.3	969.7	972.3	969.7	963.4
17.5°	959.0	954.6	956.5	957.1	953.3
20°	939.4	939.4	936.2	941.3	932.5
22.5°	917.3	917.3	917.3	921.1	916.7
25°	890.1	890.8	895.2	896.4	880.7
27.5°	859.8	863.6	866.1	826.3	789.7
30°	821.9	828.2	817.5	736.0	708.2
32.5°	780.2	789.0	730.9	657.0	628.0
35°	735.3	741.7	644.4	576.8	553.4
37.5°	669.6	669.0	561.6	514.2	491.5
40°	590.0	572.4	492.8	456.8	437.2
42.5°	504.8	480.8	444.1	419.5	397.4
45°	430.2	408.7	402.4	392.9	369.6
47.5°	362.0	355.0	360.7	368.9	343.7
50°	302.6	307.0	319.7	336.1	330.4
52.5°	252.7	264.7	278.0	309.6	323.5
55°	221.7	224.3	238.8	286.2	326.0
57.5°	199.6	188.9	208.5	267.9	324.7
60°	174.4	157.3	179.4	254.0	310.8
62.5°	150.4	130.8	158.6	245.1	301.3
65°	128.2	114.3	144.7	236.9	295.7
67.5°	109.9	102.3	136.5	230.0	289.3
70°	92.9	91.6	130.8	226.2	281.8
72.5°	76.4	83.4	126.3	225.5	281.1
75°	61.3	79.0	121.9	230.6	287.4
77.5°	47.4	75.2	115.6	240.7	295.0
80°	37.9	67.0	108.7	246.4	269.8
82.5°	29.1	56.2	101.1	241.3	236.9
85°	19.0	45.5	93.5	211.6	201.5
87.5°	8.8	33.5	87.2	179.4	169.9
90°	0.0	25.3	85.3	149.1	142.1
92.5°	0.0	22.7	88.4	126.3	120.0
95°	0.0	21.5	92.2	110.6	105.5
97.5°	0.0	20.8	91.6	99.8	95.4
100°	0.0	20.2	84.0	91.6	89.1
102.5°	0.0	19.0	75.2	85.9	83.4
105°	0.0	17.7	66.3	83.4	80.9
107.5°	0.0	17.1	59.4	85.3	80.2
110°	0.0	15.8	53.1	89.1	80.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	15.2	47.4	92.9	84.7
115°	0.0	15.2	43.0	91.0	89.7
117.5°	0.0	14.5	39.2	84.7	93.5
120°	0.0	14.5	35.4	76.4	91.6
122.5°	0.0	13.9	32.2	68.2	84.0
125°	0.0	13.9	29.1	59.4	75.2
127.5°	0.0	13.3	26.5	53.1	64.4
130°	0.0	12.6	23.4	46.7	56.2
132.5°	0.0	12.6	20.8	41.7	49.9
135°	0.0	11.4	18.3	36.6	44.9
137.5°	0.0	10.7	16.4	32.9	40.4
140°	0.0	9.5	15.2	28.4	36.0
142.5°	0.0	8.8	13.3	24.6	32.2
145°	0.0	7.6	12.0	21.5	27.8
147.5°	0.0	6.3	10.7	19.0	23.4
150°	0.0	5.7	10.1	15.8	19.0
152.5°	0.0	4.4	8.2	13.3	15.8
155°	0.0	3.2	6.9	10.7	12.6
157.5°	0.0	2.5	5.1	6.9	8.8
160°	0.6	1.3	3.8	4.4	5.7
162.5°	0.6	1.3	1.9	1.9	3.2
165°	0.6	0.6	0.6	0.6	0.6
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)