

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: P232021

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232021
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-LD4-35-1STD-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

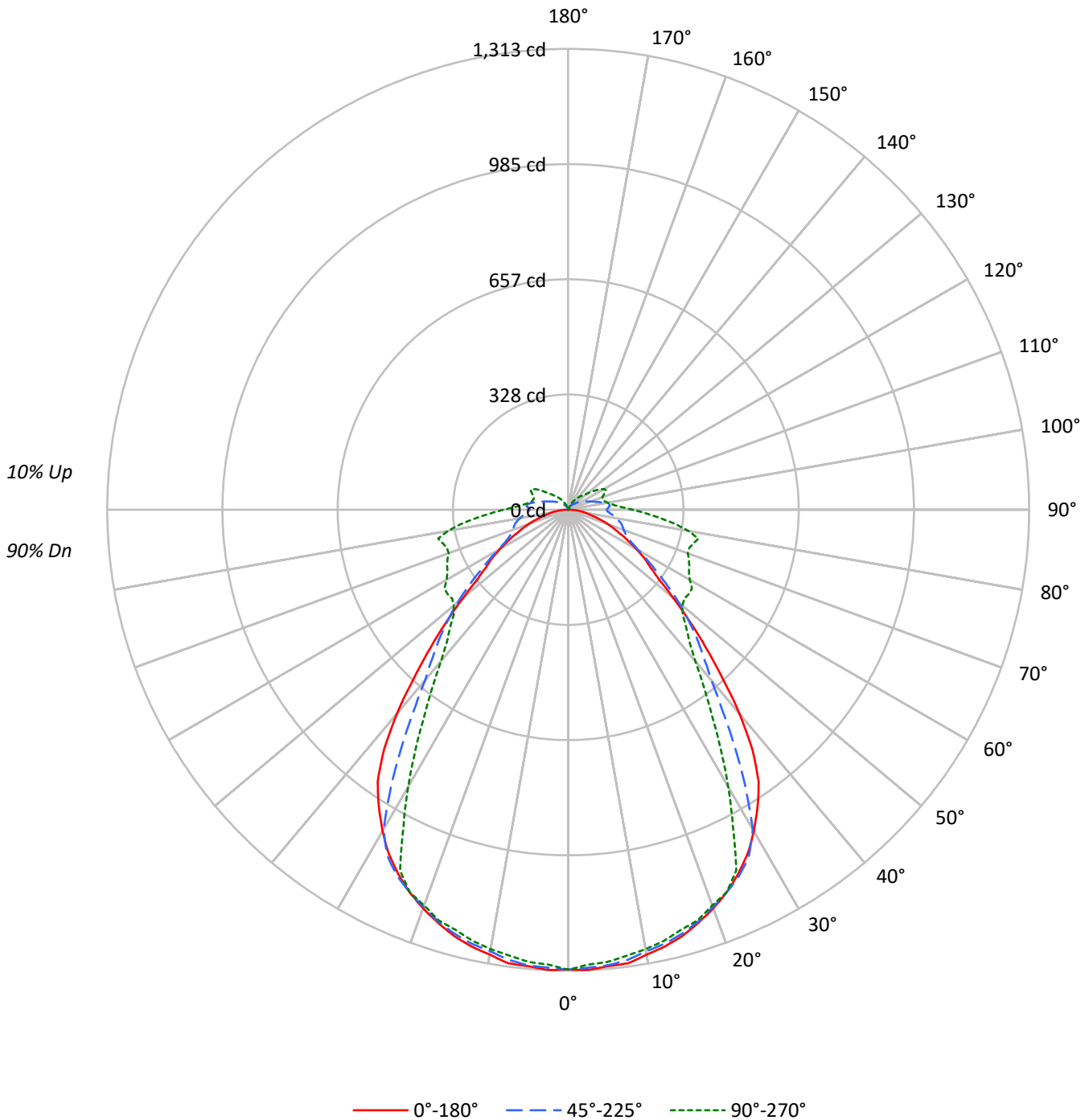
Lumens per Lamp: N/A
Luminaire Lumens: 3125.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

Input Watts (W): 28.5
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°	15473	15473	15473
5°	15387	14836	14565
10°	15265	14150	13785
15°	15112	13583	13055
20°	14842	12927	12374
25°	14488	12311	11536
30°	13903	11282	9228
35°	13052	8994	7228
40°	11104	7011	5767
45°	8686	5883	4963
50°	6643	4845	4554
55°	5380	3786	4650
60°	4767	3006	4632
65°	4052	2591	4649
70°	3507	2536	4726
75°	2900	2600	5209
80°	2432	2595	5360
85°	1906	2559	4471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	4.0
10°-20°	352.5	11.3
20°-30°	521.1	16.7
30°-40°	521.2	16.7
40°-50°	401.9	12.9
50°-60°	298.0	9.5
60°-70°	228.8	7.3
70°-80°	206.5	6.6
80°-90°	160.9	5.1
90°-100°	98.3	3.1
100°-110°	72.4	2.3
110°-120°	60.9	1.9
120°-130°	40.8	1.3
130°-140°	22.6	0.7
140°-150°	11.3	0.4
150°-160°	4.1	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	997.0	31.9
0°-40°	1518.2	48.6
0°-60°	2218.1	71.0
0°-90°	2814.3	90.1
90°-120°	231.6	7.4
90°-150°	306.2	9.8
90°-180°	311.0	10.0
0°-180°	3125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1305	1300	1303	1299	1293	124
15°	1257	1248	1251	1248	1240	354
25°	1145	1146	1152	1153	1133	526
35°	946	954	829	742	712	581
45°	554	526	518	506	476	430
55°	285	288	307	368	419	262
65°	165	147	186	305	380	166
75°	79	102	157	297	370	85
85°	24	58	120	272	259	25
90°	0	32	110	192	183	2
95°	0	28	119	142	136	0
105°	0	23	85	107	104	0
115°	0	20	55	117	115	0
125°	0	18	37	76	97	0
135°	0	15	24	47	58	0
145°	0	10	15	28	36	0
155°	0	4	9	14	16	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°	1310.2	1310.2	1310.2	1310.2	1310.2
2.5°	1312.6	1306.9	1306.1	1302.0	1297.2
5°	1305.3	1300.4	1302.9	1298.8	1293.1
7.5°	1303.7	1296.4	1293.9	1282.5	1281.7
10°	1287.4	1285.8	1277.7	1277.7	1271.2
12.5°	1274.4	1267.9	1267.1	1263.0	1258.2
15°	1257.3	1247.6	1250.8	1247.6	1239.5
17.5°	1233.8	1228.1	1230.5	1231.3	1226.5
20°	1208.6	1208.6	1204.5	1211.0	1199.6
22.5°	1180.1	1180.1	1180.1	1185.0	1179.3
25°	1145.2	1146.0	1151.7	1153.3	1133.0
27.5°	1106.2	1111.0	1114.3	1063.1	1016.0
30°	1057.4	1065.5	1051.7	946.9	911.1
32.5°	1003.8	1015.1	940.4	845.3	807.9
35°	946.1	954.2	829.0	742.1	712.0
37.5°	861.5	860.7	722.5	661.6	632.3
40°	759.1	736.4	634.0	587.6	562.4
42.5°	649.4	618.5	571.4	539.7	511.2
45°	553.5	525.9	517.7	505.5	475.5
47.5°	465.7	456.8	464.1	474.7	442.1
50°	389.3	395.0	411.3	432.4	425.1
52.5°	325.1	340.5	357.6	398.3	416.1
55°	285.3	288.5	307.2	368.2	419.4
57.5°	256.8	243.0	268.2	344.6	417.8
60°	224.3	202.4	230.8	326.7	399.9
62.5°	193.4	168.2	204.0	315.4	387.7
65°	165.0	147.1	186.1	304.8	380.4
67.5°	141.4	131.7	175.6	295.8	372.2
70°	119.5	117.9	168.2	291.0	362.5
72.5°	98.3	107.3	162.6	290.2	361.7
75°	78.8	101.6	156.9	296.7	369.8
77.5°	61.0	96.7	148.7	309.7	379.6
80°	48.8	86.2	139.8	317.0	347.0
82.5°	37.4	72.3	130.0	310.5	304.8
85°	24.4	58.5	120.3	272.3	259.3
87.5°	11.4	43.1	112.2	230.8	218.6
90°	0.0	32.5	109.7	191.8	182.9
92.5°	0.0	29.3	113.8	162.6	154.4
95°	0.0	27.6	118.7	142.2	135.7
97.5°	0.0	26.8	117.9	128.4	122.7
100°	0.0	26.0	108.1	117.9	114.6
102.5°	0.0	24.4	96.7	110.5	107.3
105°	0.0	22.8	85.3	107.3	104.0
107.5°	0.0	21.9	76.4	109.7	103.2
110°	0.0	20.3	68.3	114.6	103.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	19.5	61.0	119.5	108.9
115°	0.0	19.5	55.3	117.0	115.4
117.5°	0.0	18.7	50.4	108.9	120.3
120°	0.0	18.7	45.5	98.3	117.9
122.5°	0.0	17.9	41.5	87.8	108.1
125°	0.0	17.9	37.4	76.4	96.7
127.5°	0.0	17.1	34.1	68.3	82.9
130°	0.0	16.3	30.1	60.1	72.3
132.5°	0.0	16.3	26.8	53.6	64.2
135°	0.0	14.6	23.6	47.1	57.7
137.5°	0.0	13.8	21.1	42.3	52.0
140°	0.0	12.2	19.5	36.6	46.3
142.5°	0.0	11.4	17.1	31.7	41.5
145°	0.0	9.8	15.4	27.6	35.8
147.5°	0.0	8.1	13.8	24.4	30.1
150°	0.0	7.3	13.0	20.3	24.4
152.5°	0.0	5.7	10.6	17.1	20.3
155°	0.0	4.1	8.9	13.8	16.3
157.5°	0.0	3.3	6.5	8.9	11.4
160°	0.8	1.6	4.9	5.7	7.3
162.5°	0.8	1.6	2.4	2.4	4.1
165°	0.8	0.8	0.8	0.8	0.8
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)