

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: P232057

Luminaire Tested: **FVS4M-3-LD4-35-2STD-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232057
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-LD4-35-2STD-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
3FT LENGTH, 2-MODULE LED WITH P125 LENS
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

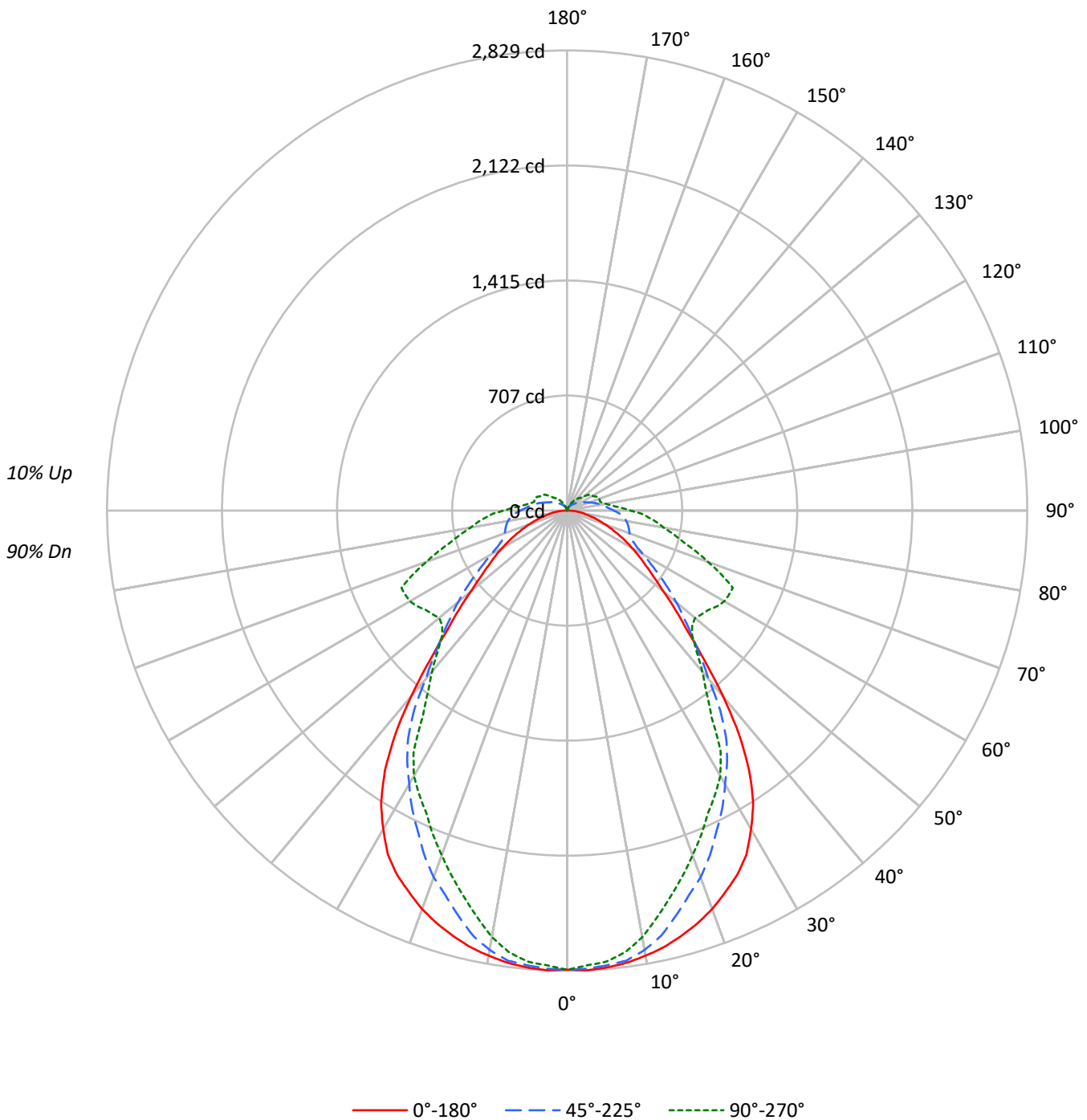
Lumens per Lamp: N/A
Luminaire Lumens: 6671.0 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.01 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

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°	33327	33327	33327
5°	33235	31949	31349
10°	32949	30375	28877
15°	32545	28018	25869
20°	32014	25741	23255
25°	31275	23224	20877
30°	29738	20828	19072
35°	26935	18488	15712
40°	21822	14966	13251
45°	16384	12283	11339
50°	13137	10296	11002
55°	11158	8500	11787
60°	9804	7039	12926
65°	8480	6184	13737
70°	7310	6155	12018
75°	6123	6469	10362
80°	5108	6844	9307
85°	4358	7212	8715



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.4	4.0
10°-20°	727.2	10.9
20°-30°	1018.2	15.3
30°-40°	1068.2	16.0
40°-50°	856.7	12.8
50°-60°	678.7	10.2
60°-70°	588.5	8.8
70°-80°	481.8	7.2
80°-90°	337.2	5.1
90°-100°	213.3	3.2
100°-110°	151.7	2.3
110°-120°	114.1	1.7
120°-130°	81.6	1.2
130°-140°	48.7	0.7
140°-150°	26.7	0.4
150°-160°	11.2	0.2
160°-170°	1.8	0.0
170°-180°	0.0	0.0
0°-30°	2010.8	30.1
0°-40°	3079.0	46.2
0°-60°	4614.4	69.2
0°-90°	6022.0	90.3
90°-120°	479.0	7.2
90°-150°	636.1	9.5
90°-180°	649.0	9.7
0°-180°	6671.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2822	2822	2822	2822	2822	
5°	2819	2803	2806	2794	2783	268
15°	2708	2687	2580	2498	2456	764
25°	2472	2327	2173	2090	2050	1133
35°	1952	1828	1704	1608	1548	1199
45°	1044	1109	1081	1127	1086	831
55°	592	587	690	893	1063	537
65°	345	307	444	899	1124	346
75°	166	218	390	759	736	178
85°	56	129	339	486	505	55
90°	2	77	287	395	388	4
95°	1	67	245	312	295	1
105°	1	57	178	230	210	1
115°	1	45	120	188	201	1
125°	2	42	85	151	172	2
135°	2	36	58	98	110	1
145°	2	26	41	62	76	1
155°	3	14	26	33	38	1
165°	3	4	9	4	5	1
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°	2822.0	2822.0	2822.0	2822.0	2822.0
2.5°	2829.2	2821.1	2819.3	2805.8	2798.6
5°	2819.3	2803.1	2805.8	2794.1	2783.3
7.5°	2804.0	2788.7	2790.5	2768.0	2738.3
10°	2778.8	2766.2	2742.8	2692.5	2662.8
12.5°	2749.1	2737.4	2676.3	2598.9	2559.4
15°	2707.8	2687.1	2580.1	2498.2	2456.0
17.5°	2661.0	2604.3	2482.0	2408.3	2357.0
20°	2607.0	2525.2	2398.4	2306.7	2254.5
22.5°	2539.6	2420.0	2294.1	2191.6	2155.6
25°	2472.1	2327.4	2172.7	2089.9	2050.4
27.5°	2385.8	2211.3	2065.7	1992.8	1969.4
30°	2261.7	2101.6	1941.6	1896.6	1883.1
32.5°	2128.6	1970.3	1830.1	1775.2	1757.2
35°	1952.4	1828.3	1704.2	1607.9	1547.7
37.5°	1737.4	1669.1	1544.1	1437.1	1404.7
40°	1491.9	1479.3	1353.4	1307.6	1292.3
42.5°	1250.0	1296.8	1208.6	1212.2	1179.9
45°	1044.1	1108.8	1080.9	1126.8	1086.3
47.5°	903.8	951.4	971.2	1045.0	1042.3
50°	769.8	814.8	874.1	986.5	1027.0
52.5°	671.8	696.9	778.8	939.8	1045.0
55°	591.7	587.2	689.8	893.0	1063.0
57.5°	526.1	496.4	607.9	866.0	1094.4
60°	461.3	412.8	540.5	863.3	1116.0
62.5°	402.9	348.0	482.0	875.0	1121.4
65°	345.3	306.7	444.2	899.3	1124.1
67.5°	295.0	275.2	421.8	914.6	1025.2
70°	249.1	249.1	408.3	898.4	921.8
72.5°	206.8	229.3	399.3	828.2	827.3
75°	166.4	218.5	390.3	759.0	735.6
77.5°	126.8	208.6	381.3	687.1	667.3
80°	102.5	187.1	368.7	609.7	602.5
82.5°	80.9	159.2	356.1	550.4	556.7
85°	55.8	128.6	339.0	486.5	505.4
87.5°	26.1	99.8	314.8	435.3	460.4
90°	1.8	77.3	286.9	394.8	387.6
92.5°	1.8	70.1	262.6	352.5	341.7
95°	0.9	67.4	244.6	312.1	295.0
97.5°	0.9	65.6	225.7	275.2	261.7
100°	0.9	63.0	211.3	249.1	241.0
102.5°	0.9	59.4	194.2	238.3	221.2
105°	0.9	56.7	178.1	230.2	209.5
107.5°	0.9	52.2	160.1	223.9	210.4
110°	0.9	49.5	144.8	211.3	209.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	46.8	132.2	197.8	209.5
115°	0.9	45.0	120.5	188.0	201.4
117.5°	0.9	44.1	111.5	184.4	189.7
120°	1.8	43.2	101.6	181.7	179.9
122.5°	1.8	43.2	93.5	168.2	174.5
125°	1.8	42.3	85.4	151.1	171.8
127.5°	1.8	40.5	78.2	135.8	154.7
130°	1.8	39.6	71.0	122.3	134.9
132.5°	1.8	37.8	64.7	109.7	119.6
135°	1.8	36.0	58.5	98.0	109.7
137.5°	1.8	33.3	54.0	87.2	102.5
140°	1.8	31.5	49.5	78.2	93.5
142.5°	1.8	28.8	45.0	69.2	84.5
145°	1.8	26.1	41.4	62.1	76.4
147.5°	2.7	23.4	37.8	55.8	64.7
150°	2.7	19.8	34.2	48.6	55.8
152.5°	2.7	17.1	30.6	41.4	46.8
155°	2.7	14.4	26.1	33.3	37.8
157.5°	2.7	11.7	21.6	25.2	29.7
160°	2.7	9.9	18.0	17.1	20.7
162.5°	2.7	7.2	13.5	9.9	12.6
165°	2.7	4.5	9.0	4.5	5.4
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)