

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: P232061

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232061
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-LD4-35-2HI-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

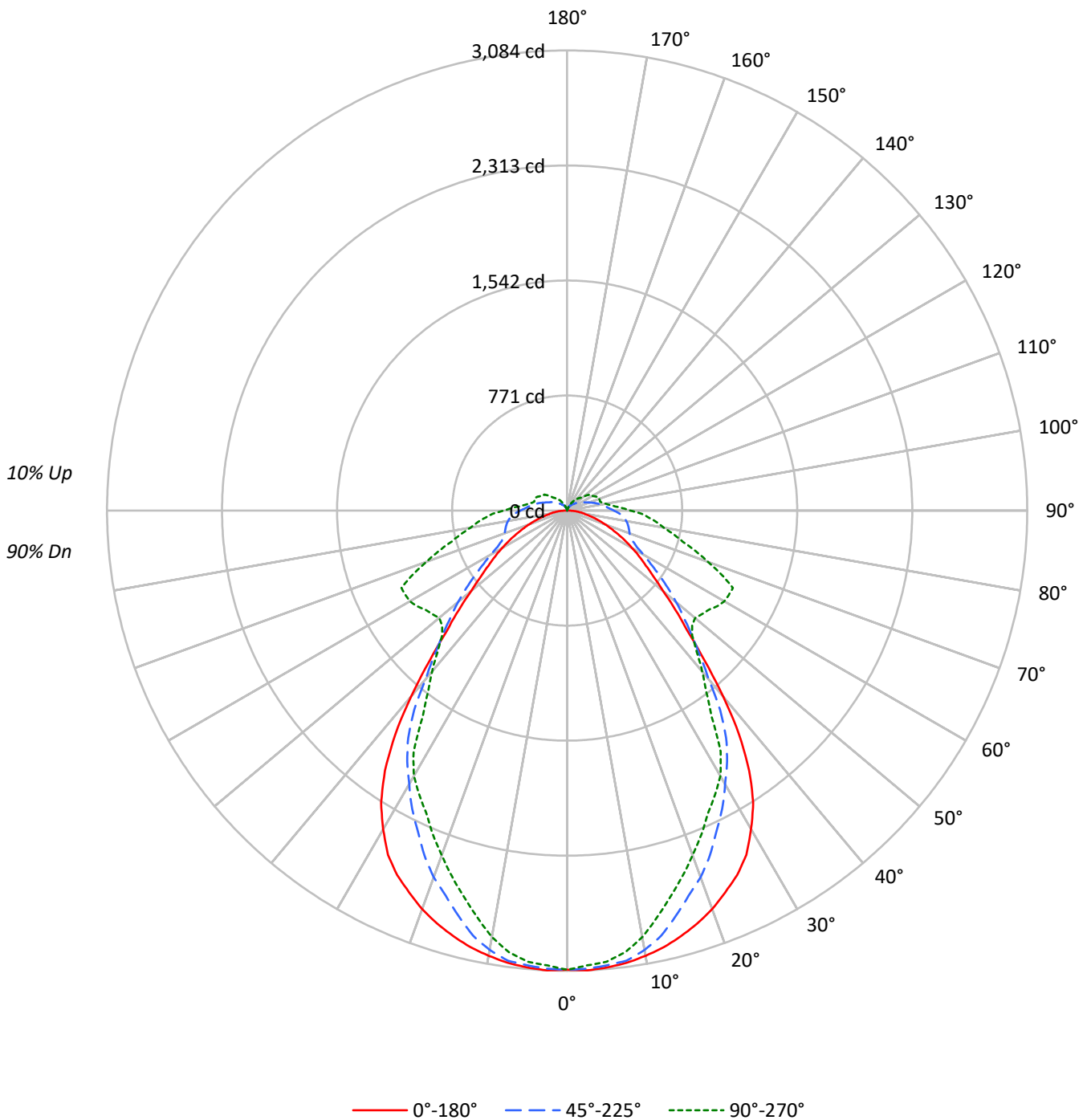
Lumens per Lamp: N/A
Luminaire Lumens: 7273.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.01 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

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

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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°	36333	36333	36333
5°	36234	34832	34179
10°	35923	33116	31482
15°	35482	30546	28203
20°	34904	28064	25354
25°	34097	25319	22760
30°	32422	22708	20793
35°	29364	20156	17129
40°	23793	16317	14447
45°	17863	13392	12363
50°	14323	11225	11995
55°	12165	9267	12850
60°	10690	7673	14092
65°	9246	6742	14977
70°	7970	6710	13102
75°	6675	7052	11297
80°	5572	7462	10147
85°	4749	7863	9501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.3	4.0
10°-20°	792.8	10.9
20°-30°	1110.1	15.3
30°-40°	1164.5	16.0
40°-50°	934.1	12.8
50°-60°	739.9	10.2
60°-70°	641.6	8.8
70°-80°	525.3	7.2
80°-90°	367.7	5.1
90°-100°	232.5	3.2
100°-110°	165.4	2.3
110°-120°	124.3	1.7
120°-130°	89.0	1.2
130°-140°	53.1	0.7
140°-150°	29.1	0.4
150°-160°	12.2	0.2
160°-170°	2.0	0.0
170°-180°	0.0	0.0
0°-30°	2192.3	30.1
0°-40°	3356.8	46.2
0°-60°	5030.8	69.2
0°-90°	6565.4	90.3
90°-120°	522.2	7.2
90°-150°	693.5	9.5
90°-180°	708.0	9.7
0°-180°	7273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3077	3077	3077	3077	3077	
5°	3074	3056	3059	3046	3034	292
15°	2952	2930	2813	2724	2678	833
25°	2695	2537	2369	2278	2235	1236
35°	2128	1993	1858	1753	1687	1307
45°	1138	1209	1178	1228	1184	906
55°	645	640	752	974	1159	585
65°	376	334	484	980	1226	377
75°	181	238	426	828	802	194
85°	61	140	370	530	551	60
90°	2	84	313	430	423	5
95°	1	74	267	340	322	1
105°	1	62	194	251	228	1
115°	1	49	131	205	220	1
125°	2	46	93	165	187	2
135°	2	39	64	107	120	2
145°	2	28	45	68	83	1
155°	3	16	28	36	41	1
165°	3	5	10	5	6	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3076.6	3076.6	3076.6	3076.6	3076.6
2.5°	3084.5	3075.6	3073.7	3059.0	3051.1
5°	3073.7	3056.0	3059.0	3046.2	3034.5
7.5°	3057.0	3040.3	3042.3	3017.8	2985.4
10°	3029.6	3015.8	2990.3	2935.4	2903.1
12.5°	2997.2	2984.5	2917.8	2833.5	2790.3
15°	2952.1	2929.6	2812.9	2723.7	2677.6
17.5°	2901.1	2839.4	2706.0	2625.6	2569.7
20°	2842.3	2753.1	2614.8	2514.8	2458.0
22.5°	2768.8	2638.4	2501.1	2389.3	2350.1
25°	2695.2	2537.4	2368.7	2278.5	2235.4
27.5°	2601.1	2410.9	2252.1	2172.7	2147.2
30°	2465.8	2291.3	2116.8	2067.8	2053.0
32.5°	2320.7	2148.1	1995.2	1935.4	1915.8
35°	2128.5	1993.2	1857.9	1753.0	1687.3
37.5°	1894.2	1819.7	1683.4	1566.7	1531.4
40°	1626.6	1612.8	1475.6	1425.6	1408.9
42.5°	1362.8	1413.8	1317.7	1321.6	1286.3
45°	1138.3	1208.9	1178.5	1228.5	1184.4
47.5°	985.3	1037.3	1058.9	1139.3	1136.3
50°	839.3	888.3	953.0	1075.5	1119.7
52.5°	732.4	759.8	849.1	1024.6	1139.3
55°	645.1	640.2	752.0	973.6	1158.9
57.5°	573.6	541.2	662.8	944.2	1193.2
60°	503.0	450.0	589.2	941.2	1216.7
62.5°	439.2	379.4	525.5	954.0	1222.6
65°	376.5	334.3	484.3	980.4	1225.6
67.5°	321.6	300.0	459.8	997.1	1117.7
70°	271.6	271.6	445.1	979.5	1005.0
72.5°	225.5	250.0	435.3	903.0	902.0
75°	181.4	238.2	425.5	827.5	802.0
77.5°	138.2	227.5	415.7	749.1	727.5
80°	111.8	203.9	402.0	664.7	656.9
82.5°	88.2	173.5	388.3	600.0	606.9
85°	60.8	140.2	369.6	530.4	551.0
87.5°	28.4	108.8	343.2	474.5	502.0
90°	2.0	84.3	312.8	430.4	422.6
92.5°	2.0	76.5	286.3	384.3	372.6
95°	1.0	73.5	266.7	340.2	321.6
97.5°	1.0	71.6	246.1	300.0	285.3
100°	1.0	68.6	230.4	271.6	262.8
102.5°	1.0	64.7	211.8	259.8	241.2
105°	1.0	61.8	194.1	251.0	228.4
107.5°	1.0	56.9	174.5	244.1	229.4
110°	1.0	53.9	157.9	230.4	228.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	51.0	144.1	215.7	228.4
115°	1.0	49.0	131.4	204.9	219.6
117.5°	1.0	48.0	121.6	201.0	206.9
120°	2.0	47.1	110.8	198.0	196.1
122.5°	2.0	47.1	102.0	183.3	190.2
125°	2.0	46.1	93.1	164.7	187.3
127.5°	2.0	44.1	85.3	148.0	168.6
130°	2.0	43.1	77.5	133.3	147.1
132.5°	2.0	41.2	70.6	119.6	130.4
135°	2.0	39.2	63.7	106.9	119.6
137.5°	2.0	36.3	58.8	95.1	111.8
140°	2.0	34.3	53.9	85.3	102.0
142.5°	2.0	31.4	49.0	75.5	92.2
145°	2.0	28.4	45.1	67.7	83.3
147.5°	2.9	25.5	41.2	60.8	70.6
150°	2.9	21.6	37.3	52.9	60.8
152.5°	2.9	18.6	33.3	45.1	51.0
155°	2.9	15.7	28.4	36.3	41.2
157.5°	2.9	12.7	23.5	27.5	32.4
160°	2.9	10.8	19.6	18.6	22.6
162.5°	2.9	7.8	14.7	10.8	13.7
165°	2.9	4.9	9.8	4.9	5.9
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)