

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: P231980

Luminaire Tested: **FVS4M-4-LD4-30-2LO-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-18)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4M-4-LD4-30-2LO-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
4FT LENGTH, 2-MODULE LED WITH P125 LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

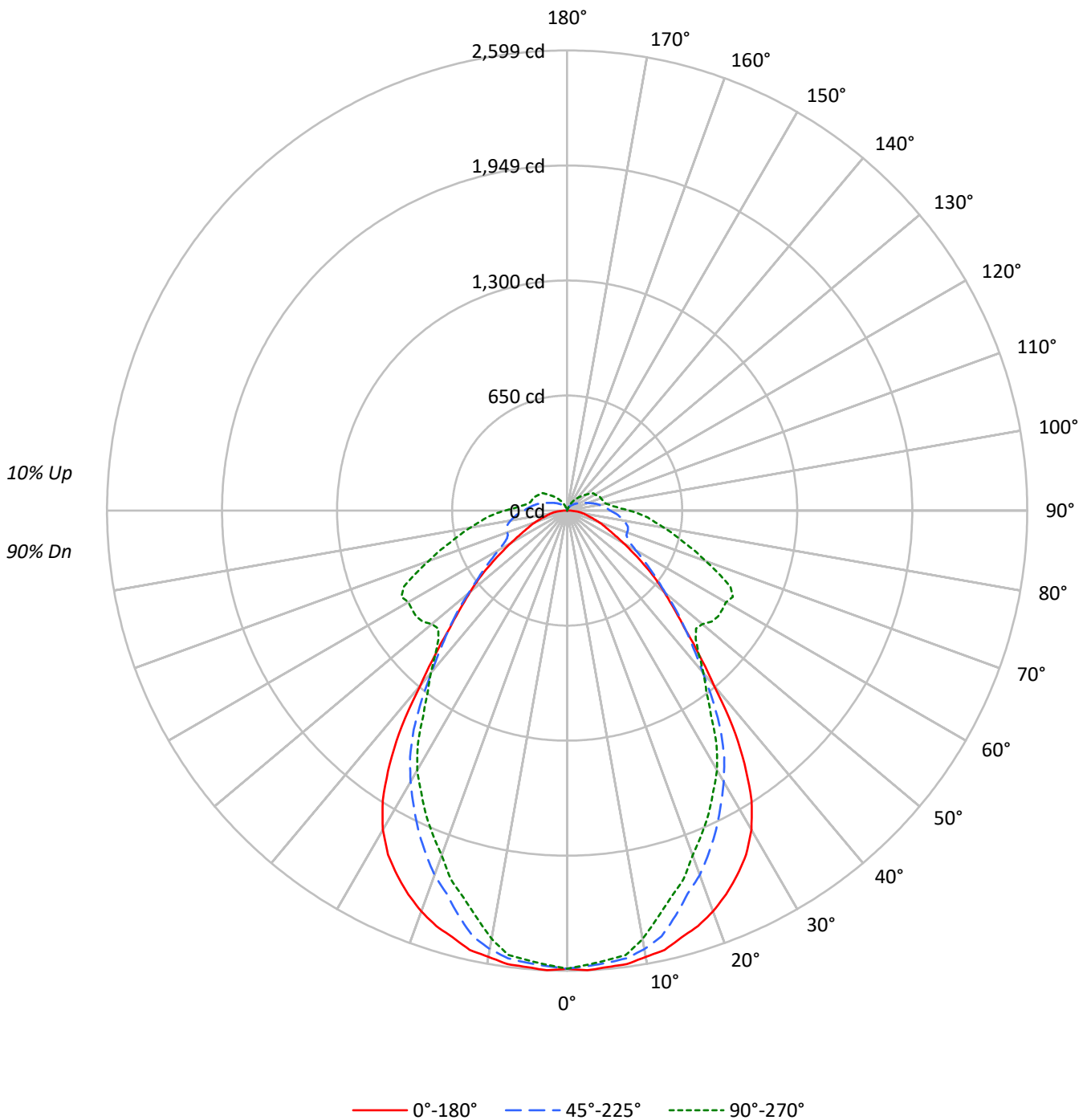
Lumens per Lamp: N/A
Luminaire Lumens: 6015.0 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.01 / 1.1
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 3.79' x H: 0.19')
CIE Type: Direct

Input Watts (W): 57.4
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	90	91	88	85	86	83	81	81	78	76	74
2	96	88	81	76	93	85	79	74	80	75	71	76	71	68	71	68	65	62
3	89	78	70	64	85	76	69	63	72	65	60	67	62	58	64	59	56	53
4	82	70	62	55	79	68	60	54	64	58	52	61	55	51	58	53	49	46
5	75	63	55	48	73	61	53	47	58	51	46	55	49	45	53	47	43	41
6	70	57	49	43	68	56	48	42	53	46	41	51	45	40	48	43	39	37
7	65	52	44	38	63	51	43	38	49	42	37	47	40	36	44	39	35	33
8	61	48	40	35	59	47	39	34	45	38	33	43	37	33	41	36	32	30
9	57	45	37	31	55	44	36	31	42	35	30	40	34	30	38	33	29	27
10	54	41	34	29	52	40	33	28	39	32	28	37	31	27	36	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23506	23506	23506
5°	23500	22477	22088
10°	23401	21458	20490
15°	23160	19825	18326
20°	22878	18137	16438
25°	22256	16432	14801
30°	21227	14661	13192
35°	18731	12683	11082
40°	14687	10187	9452
45°	11474	8282	8245
50°	9534	6627	8216
55°	7805	5439	8882
60°	6147	4510	9222
65°	5059	4068	9561
70°	4464	4231	8341
75°	3825	4598	7312
80°	3771	4705	6591
85°	3563	4794	6068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.8	4.1
10°-20°	669.3	11.1
20°-30°	932.7	15.5
30°-40°	961.2	16.0
40°-50°	764.8	12.7
50°-60°	595.1	9.9
60°-70°	520.2	8.6
70°-80°	438.6	7.3
80°-90°	297.2	4.9
90°-100°	188.1	3.1
100°-110°	139.6	2.3
110°-120°	107.1	1.8
120°-130°	77.4	1.3
130°-140°	45.4	0.8
140°-150°	23.9	0.4
150°-160°	9.3	0.2
160°-170°	1.4	0.0
170°-180°	0.0	0.0
0°-30°	1845.8	30.7
0°-40°	2807.0	46.7
0°-60°	4166.8	69.3
0°-90°	5422.9	90.2
90°-120°	434.8	7.2
90°-150°	581.4	9.7
90°-180°	592.0	9.8
0°-180°	6015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2588	2588	2588	2588	2588	
5°	2588	2583	2564	2561	2549	246
15°	2495	2481	2367	2290	2262	705
25°	2272	2137	1990	1920	1890	1043
35°	1748	1649	1511	1443	1419	1075
45°	937	961	941	1041	1027	740
55°	528	471	569	814	1041	475
65°	260	256	376	826	1017	265
75°	129	205	356	703	675	141
85°	54	104	287	441	458	50
90°	2	62	244	346	350	4
95°	2	56	213	275	267	2
105°	2	51	155	214	210	2
115°	2	43	103	185	194	2
125°	2	39	72	148	172	2
135°	3	30	49	93	117	2
145°	3	22	34	57	72	2
155°	3	12	22	26	34	1
165°	4	4	8	3	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°	2587.5	2587.5	2587.5	2587.5	2587.5
2.5°	2598.6	2592.4	2575.0	2577.8	2568.1
5°	2588.2	2582.7	2563.9	2561.1	2549.3
7.5°	2583.3	2571.5	2550.7	2541.7	2532.0
10°	2559.0	2545.9	2514.6	2477.1	2456.3
12.5°	2541.7	2522.9	2463.2	2386.9	2355.6
15°	2495.2	2480.6	2367.4	2289.7	2261.9
17.5°	2459.8	2416.7	2267.5	2211.2	2184.1
20°	2409.1	2336.9	2189.7	2116.1	2071.7
22.5°	2345.9	2232.0	2091.8	2020.3	1982.1
25°	2271.6	2136.9	1990.4	1920.3	1889.8
27.5°	2190.4	2023.1	1878.7	1816.2	1787.7
30°	2081.4	1916.9	1768.3	1712.7	1693.3
32.5°	1938.4	1786.3	1650.3	1596.1	1570.4
35°	1747.5	1648.9	1511.4	1443.4	1419.1
37.5°	1535.0	1494.7	1350.3	1319.8	1292.0
40°	1289.9	1309.4	1190.0	1201.1	1198.3
42.5°	1100.4	1127.5	1055.3	1126.8	1099.7
45°	937.3	960.9	940.7	1040.7	1026.8
47.5°	815.1	816.5	835.2	960.9	986.5
50°	714.4	683.8	725.5	890.7	997.0
52.5°	623.4	565.8	638.7	846.3	1028.9
55°	527.6	471.4	568.6	813.7	1041.4
57.5°	437.4	389.5	500.6	794.2	1039.3
60°	367.3	328.4	445.7	787.3	1035.1
62.5°	306.9	288.8	403.4	803.3	1055.3
65°	260.3	255.5	375.6	825.5	1017.1
67.5°	224.2	235.4	362.4	853.9	922.7
70°	190.9	224.2	360.3	833.8	831.7
72.5°	156.2	216.6	360.3	770.6	755.4
75°	129.1	204.8	355.5	702.6	674.8
77.5°	108.3	182.6	340.9	637.3	615.1
80°	92.3	155.5	324.2	569.3	554.7
82.5°	72.2	129.1	304.8	500.6	500.6
85°	53.5	104.1	287.4	440.9	457.5
87.5°	26.4	81.9	265.2	389.5	404.8
90°	2.1	62.5	243.7	346.4	349.9
92.5°	1.4	57.6	228.4	308.3	299.2
95°	2.1	56.2	213.1	274.9	267.3
97.5°	2.1	54.8	199.3	250.6	243.0
100°	1.4	53.5	184.7	234.7	223.6
102.5°	2.1	52.1	171.5	224.2	213.8
105°	2.1	50.7	154.8	214.5	209.7
107.5°	2.1	48.6	138.9	206.9	206.2
110°	2.1	46.5	125.7	197.2	203.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.1	45.1	112.5	188.1	200.6
115°	2.1	43.0	102.8	184.7	193.7
117.5°	2.1	41.7	95.1	184.0	187.5
120°	2.1	41.0	86.8	176.3	181.2
122.5°	2.1	40.3	79.1	163.8	179.1
125°	2.1	38.9	72.2	147.9	172.2
127.5°	2.1	37.5	66.0	133.3	155.5
130°	2.1	34.7	59.7	118.7	140.2
132.5°	2.1	32.6	54.2	103.4	127.7
135°	2.8	30.5	49.3	93.0	116.6
137.5°	2.8	28.5	43.7	82.6	105.5
140°	2.8	25.7	40.3	73.6	93.0
142.5°	2.8	23.6	36.8	65.3	83.3
145°	2.8	21.5	34.0	56.9	71.5
147.5°	2.8	19.4	31.9	50.0	61.1
150°	2.8	16.7	28.5	41.7	51.4
152.5°	2.8	13.9	25.7	33.3	41.7
155°	2.8	11.8	21.5	25.7	34.0
157.5°	2.8	9.7	18.1	18.7	25.0
160°	2.8	6.9	14.6	12.5	17.4
162.5°	3.5	5.6	11.1	6.9	10.4
165°	3.5	4.2	7.6	2.8	4.9
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)