

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: P232052

Luminaire Tested: **FVS4M-3-LD4-30-2LO-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232052
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-LD4-30-2LO-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
3FT LENGTH, 2-MODULE LED WITH P125 LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

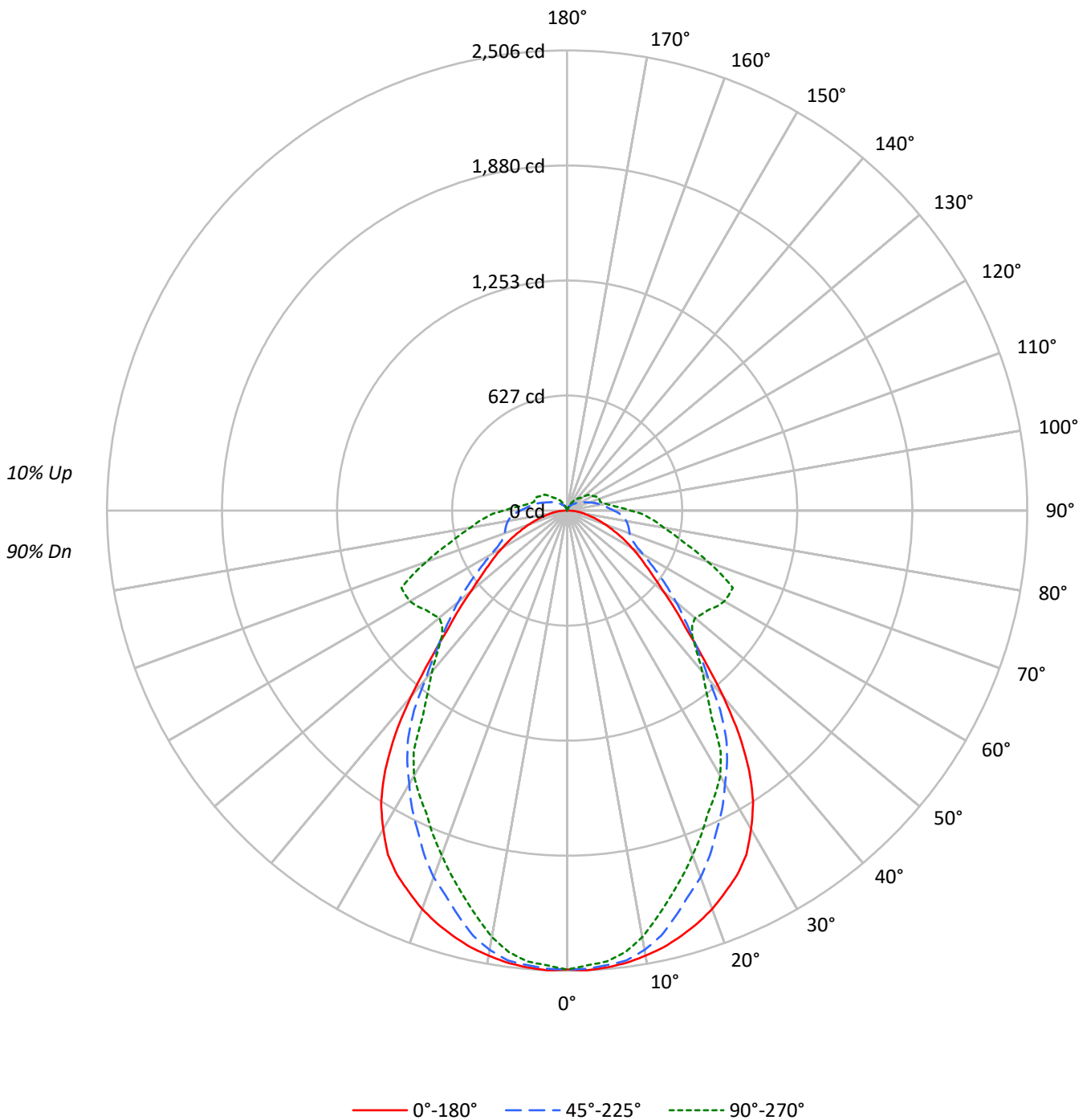
Lumens per Lamp: N/A
Luminaire Lumens: 5909.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.01 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

Input Watts (W): 56.8
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°	29519	29519	29519
5°	29438	28299	27769
10°	29186	26905	25578
15°	28828	24817	22913
20°	28357	22800	20599
25°	27703	20571	18492
30°	26342	18449	16894
35°	23857	16376	13917
40°	19330	13256	11738
45°	14512	10881	10045
50°	11637	9120	9745
55°	9883	7529	10439
60°	8684	6234	11449
65°	7512	5478	12168
70°	6474	5451	10645
75°	5424	5730	9179
80°	4525	6062	8244
85°	3858	6389	7720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.1	4.0
10°-20°	644.2	10.9
20°-30°	901.9	15.3
30°-40°	946.2	16.0
40°-50°	758.9	12.8
50°-60°	601.2	10.2
60°-70°	521.3	8.8
70°-80°	426.8	7.2
80°-90°	298.7	5.1
90°-100°	188.9	3.2
100°-110°	134.4	2.3
110°-120°	101.0	1.7
120°-130°	72.3	1.2
130°-140°	43.2	0.7
140°-150°	23.7	0.4
150°-160°	9.9	0.2
160°-170°	1.6	0.0
170°-180°	0.0	0.0
0°-30°	1781.1	30.1
0°-40°	2727.3	46.2
0°-60°	4087.3	69.2
0°-90°	5334.1	90.3
90°-120°	424.3	7.2
90°-150°	563.4	9.5
90°-180°	575.0	9.7
0°-180°	5909.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2500	2500	2500	2500	2500	
5°	2497	2483	2485	2475	2465	237
15°	2398	2380	2285	2213	2175	676
25°	2190	2062	1924	1851	1816	1004
35°	1729	1619	1510	1424	1371	1062
45°	925	982	958	998	962	736
55°	524	520	611	791	942	476
65°	306	272	394	797	996	306
75°	147	194	346	672	652	158
85°	49	114	300	431	448	48
90°	2	68	254	350	343	4
95°	1	60	217	276	261	1
105°	1	50	158	204	186	1
115°	1	40	107	166	178	1
125°	2	37	76	134	152	1
135°	2	32	52	87	97	1
145°	2	23	37	55	68	1
155°	2	13	23	30	34	1
165°	2	4	8	4	5	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°	2499.6	2499.6	2499.6	2499.6	2499.6
2.5°	2506.0	2498.8	2497.2	2485.3	2478.9
5°	2497.2	2482.9	2485.3	2474.9	2465.4
7.5°	2483.7	2470.2	2471.7	2451.8	2425.5
10°	2461.4	2450.2	2429.5	2384.9	2358.6
12.5°	2435.1	2424.7	2370.6	2302.1	2267.0
15°	2398.5	2380.1	2285.3	2212.9	2175.4
17.5°	2357.0	2306.9	2198.5	2133.2	2087.8
20°	2309.2	2236.8	2124.4	2043.2	1997.0
22.5°	2249.5	2143.6	2032.0	1941.2	1909.4
25°	2189.8	2061.5	1924.5	1851.2	1816.2
27.5°	2113.3	1958.8	1829.7	1765.2	1744.5
30°	2003.4	1861.6	1719.8	1680.0	1668.0
32.5°	1885.5	1745.3	1621.0	1572.4	1556.5
35°	1729.3	1619.4	1509.5	1424.3	1370.9
37.5°	1539.0	1478.4	1367.7	1272.9	1244.2
40°	1321.5	1310.4	1198.8	1158.2	1144.7
42.5°	1107.2	1148.6	1070.6	1073.8	1045.1
45°	924.8	982.2	957.5	998.1	962.3
47.5°	800.5	842.8	860.3	925.6	923.2
50°	681.9	721.7	774.3	873.8	909.7
52.5°	595.0	617.3	689.8	832.4	925.6
55°	524.1	520.2	611.0	791.0	941.5
57.5°	466.0	439.7	538.5	767.1	969.4
60°	408.6	365.6	478.7	764.7	988.5
62.5°	356.9	308.3	427.0	775.1	993.3
65°	305.9	271.6	393.5	796.6	995.7
67.5°	261.3	243.7	373.6	810.1	908.1
70°	220.6	220.6	361.6	795.8	816.5
72.5°	183.2	203.1	353.7	733.6	732.8
75°	147.4	193.6	345.7	672.3	651.6
77.5°	112.3	184.8	337.7	608.6	591.1
80°	90.8	165.7	326.6	540.1	533.7
82.5°	71.7	141.0	315.4	487.5	493.1
85°	49.4	113.9	300.3	430.9	447.7
87.5°	23.1	88.4	278.8	385.5	407.8
90°	1.6	68.5	254.1	349.7	343.3
92.5°	1.6	62.1	232.6	312.3	302.7
95°	0.8	59.7	216.7	276.4	261.3
97.5°	0.8	58.1	199.9	243.7	231.8
100°	0.8	55.8	187.2	220.6	213.5
102.5°	0.8	52.6	172.1	211.1	196.0
105°	0.8	50.2	157.7	203.9	185.6
107.5°	0.8	46.2	141.8	198.3	186.4
110°	0.8	43.8	128.2	187.2	185.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	41.4	117.1	175.2	185.6
115°	0.8	39.8	106.7	166.5	178.4
117.5°	0.8	39.0	98.8	163.3	168.1
120°	1.6	38.2	90.0	160.9	159.3
122.5°	1.6	38.2	82.8	149.0	154.5
125°	1.6	37.4	75.7	133.8	152.1
127.5°	1.6	35.8	69.3	120.3	137.0
130°	1.6	35.0	62.9	108.3	119.5
132.5°	1.6	33.5	57.4	97.2	105.9
135°	1.6	31.9	51.8	86.8	97.2
137.5°	1.6	29.5	47.8	77.3	90.8
140°	1.6	27.9	43.8	69.3	82.8
142.5°	1.6	25.5	39.8	61.3	74.9
145°	1.6	23.1	36.6	55.0	67.7
147.5°	2.4	20.7	33.5	49.4	57.4
150°	2.4	17.5	30.3	43.0	49.4
152.5°	2.4	15.1	27.1	36.6	41.4
155°	2.4	12.7	23.1	29.5	33.5
157.5°	2.4	10.4	19.1	22.3	26.3
160°	2.4	8.8	15.9	15.1	18.3
162.5°	2.4	6.4	11.9	8.8	11.2
165°	2.4	4.0	8.0	4.0	4.8
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)