

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: P231952

Luminaire Tested: **FVS4M-4-LD4-30-1HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-13)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4M-4-LD4-30-1HI-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
4FT LENGTH, 1-MODULE LED WITH P125 LENS
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

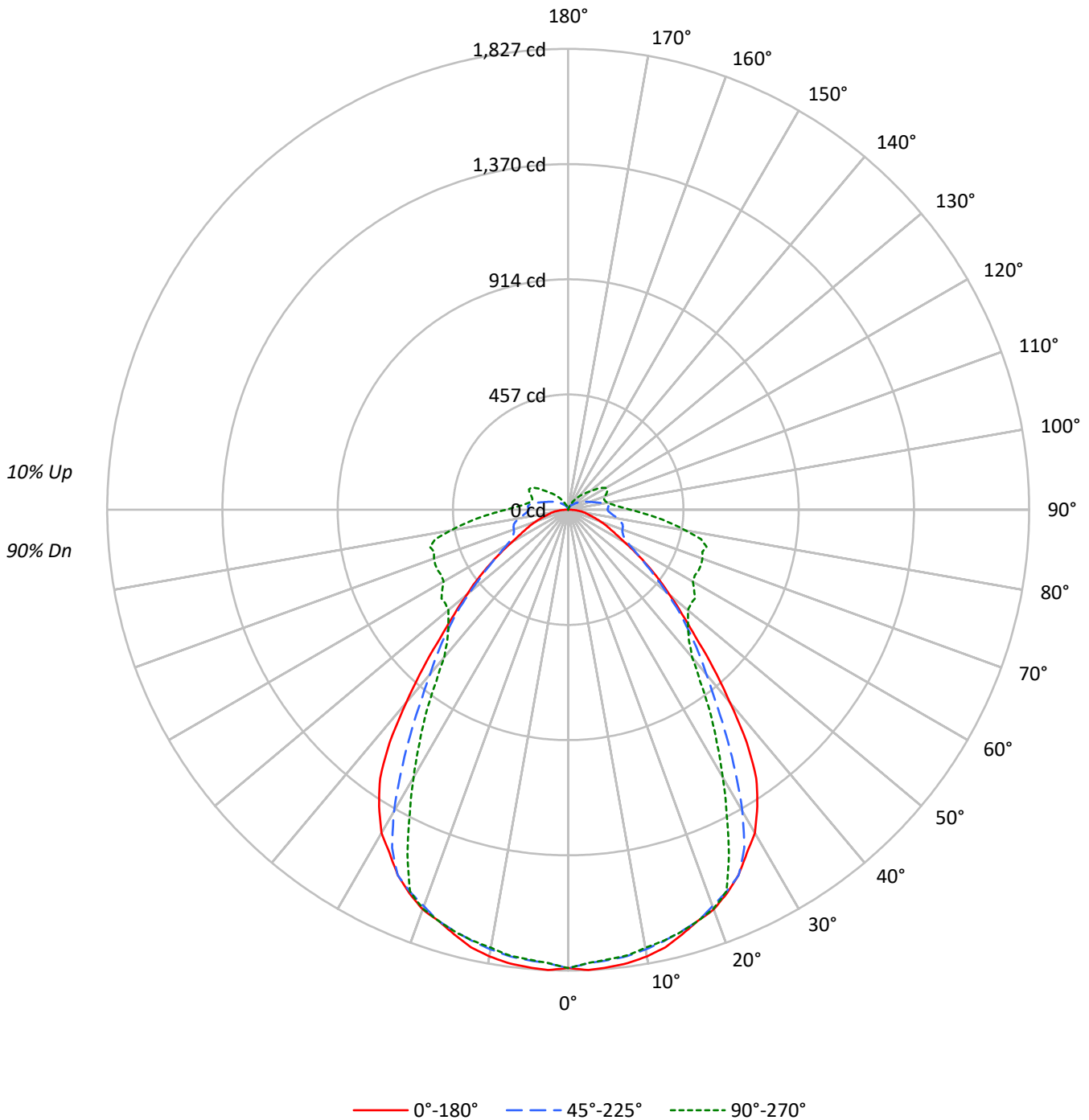
Lumens per Lamp: N/A
Luminaire Lumens: 4274.0 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.07 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 3.79' x H: 0.19')
CIE Type: Semi-Direct

Input Watts (W): 44.5
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	105	105	105	99	99	99	93	93	93	90
1	106	101	96	92	102	97	93	90	91	88	85	86	83	81	80	78	76	74
2	97	89	82	76	93	86	80	74	81	76	71	76	72	68	71	68	65	62
3	89	79	71	65	86	76	69	63	72	66	61	68	63	59	64	60	56	54
4	82	71	62	56	79	69	61	55	65	58	53	61	56	51	58	54	50	47
5	76	64	55	49	73	62	54	48	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	36	60	48	40	35	46	39	34	44	38	34	42	37	33	31
9	58	45	38	32	56	44	37	32	42	36	31	41	35	31	39	34	30	28
10	55	42	35	30	53	41	34	29	40	33	29	38	32	28	37	31	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16508	16508	16508
5°	16534	15720	15511
10°	16441	15104	14709
15°	16179	14493	14037
20°	16014	13856	13358
25°	15654	13199	11806
30°	15089	11445	9548
35°	13930	9154	7655
40°	11348	7287	6032
45°	8726	5920	5392
50°	6997	4631	5105
55°	5621	3561	5227
60°	4314	2843	5083
65°	3609	2605	5363
70°	3194	2689	5682
75°	2708	2887	6150
80°	2672	2890	5589
85°	2371	2841	4645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	4.0
10°-20°	490.6	11.5
20°-30°	716.4	16.8
30°-40°	698.9	16.4
40°-50°	534.8	12.5
50°-60°	387.6	9.1
60°-70°	312.6	7.3
70°-80°	304.0	7.1
80°-90°	219.2	5.1
90°-100°	133.6	3.1
100°-110°	101.1	2.4
110°-120°	86.5	2.0
120°-130°	59.9	1.4
130°-140°	33.5	0.8
140°-150°	16.8	0.4
150°-160°	6.2	0.1
160°-170°	0.8	0.0
170°-180°	0.0	0.0
0°-30°	1378.3	32.2
0°-40°	2077.2	48.6
0°-60°	2999.7	70.2
0°-90°	3835.5	89.7
90°-120°	321.2	7.5
90°-150°	431.4	10.1
90°-180°	438.0	10.2
0°-180°	4274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1817	1817	1817	1817	1817	
5°	1821	1808	1793	1797	1790	173
15°	1743	1749	1731	1737	1732	492
25°	1598	1601	1599	1564	1507	733
35°	1300	1264	1091	1000	980	794
45°	713	699	672	691	672	563
55°	380	348	372	495	613	343
65°	186	186	240	438	570	188
75°	91	146	223	474	568	100
85°	36	70	170	365	350	35
90°	1	40	156	256	245	3
95°	1	37	161	194	188	1
105°	1	33	113	156	148	1
115°	1	29	74	164	170	1
125°	1	27	51	114	147	1
135°	1	21	33	70	90	1
145°	1	14	22	41	53	1
155°	2	8	14	18	24	1
165°	2	3	3	2	2	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°	1817.2	1817.2	1817.2	1817.2	1817.2
2.5°	1826.8	1816.2	1799.9	1804.7	1798.9
5°	1821.0	1807.6	1793.1	1797.0	1790.2
7.5°	1813.3	1797.0	1785.4	1788.3	1782.5
10°	1797.9	1785.4	1770.0	1772.9	1763.3
12.5°	1777.7	1763.3	1751.8	1756.6	1749.8
15°	1743.1	1748.9	1730.6	1737.3	1732.5
17.5°	1709.4	1721.9	1709.4	1716.2	1709.4
20°	1686.3	1682.5	1672.9	1694.0	1683.5
22.5°	1645.0	1644.0	1639.2	1652.7	1638.2
25°	1597.8	1600.7	1598.8	1564.2	1507.4
27.5°	1533.4	1545.9	1511.3	1405.4	1360.2
30°	1479.5	1484.3	1380.4	1270.8	1225.6
32.5°	1394.9	1399.7	1232.3	1127.4	1096.7
35°	1299.6	1264.0	1090.9	1000.5	980.3
37.5°	1162.1	1102.4	959.1	900.4	859.0
40°	996.6	940.8	851.3	811.9	764.8
42.5°	851.3	810.0	761.9	747.5	709.0
45°	712.8	699.4	672.4	690.7	671.5
47.5°	610.9	594.5	592.6	633.0	643.6
50°	524.3	498.3	507.0	578.1	619.5
52.5°	452.1	417.5	432.9	532.9	612.8
55°	380.0	348.2	372.3	495.4	612.8
57.5°	316.5	286.7	321.3	478.1	591.6
60°	257.8	240.5	280.9	456.9	570.5
62.5°	216.4	207.8	254.9	441.5	565.6
65°	185.7	185.7	240.5	437.7	570.5
67.5°	160.6	170.3	232.8	443.5	570.5
70°	136.6	161.6	229.0	454.1	566.6
72.5°	112.6	154.9	227.0	464.6	557.0
75°	91.4	146.2	223.2	474.3	567.6
77.5°	76.0	128.9	211.6	475.2	538.7
80°	65.4	108.7	199.1	473.3	470.4
82.5°	51.0	89.5	182.8	431.0	410.8
85°	35.6	70.2	170.3	364.6	350.2
87.5°	16.4	53.9	159.7	304.9	292.4
90°	1.0	40.4	155.8	255.9	245.3
92.5°	1.0	37.5	157.8	222.2	211.6
95°	1.0	36.6	160.6	194.3	187.6
97.5°	1.0	35.6	154.9	175.1	171.2
100°	1.0	34.6	142.4	162.6	158.7
102.5°	1.0	33.7	127.0	155.8	152.0
105°	1.0	32.7	112.6	155.8	148.1
107.5°	1.0	31.7	100.0	160.6	149.1
110°	1.0	30.8	90.4	166.4	154.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	29.8	81.8	168.3	163.5
115°	1.0	28.9	74.1	163.5	170.3
117.5°	1.0	28.9	68.3	152.0	175.1
120°	1.0	27.9	62.5	140.4	172.2
122.5°	1.0	27.9	56.8	127.9	161.6
125°	1.0	26.9	51.0	113.5	147.2
127.5°	1.0	26.0	46.2	102.0	128.9
130°	1.0	25.0	41.4	90.4	114.5
132.5°	1.0	23.1	37.5	79.8	101.0
135°	1.0	21.2	32.7	70.2	90.4
137.5°	1.0	19.2	29.8	61.6	79.8
140°	1.0	18.3	26.9	53.9	70.2
142.5°	1.0	16.4	24.0	48.1	61.6
145°	1.0	14.4	22.1	41.4	52.9
147.5°	1.0	13.5	21.2	35.6	44.3
150°	1.0	11.5	19.2	28.9	36.6
152.5°	1.9	9.6	16.4	23.1	29.8
155°	1.9	7.7	13.5	18.3	24.0
157.5°	1.9	5.8	11.5	12.5	17.3
160°	1.9	4.8	8.7	7.7	11.5
162.5°	1.9	2.9	5.8	3.8	6.7
165°	1.9	2.9	2.9	1.9	1.9
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)