

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: P232026

Luminaire Tested: **FVS4M-3-LD4-40-1HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4M-3-LD4-40-1HI-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
3FT LENGTH, 1-MODULE LED WITH P125 LENS
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

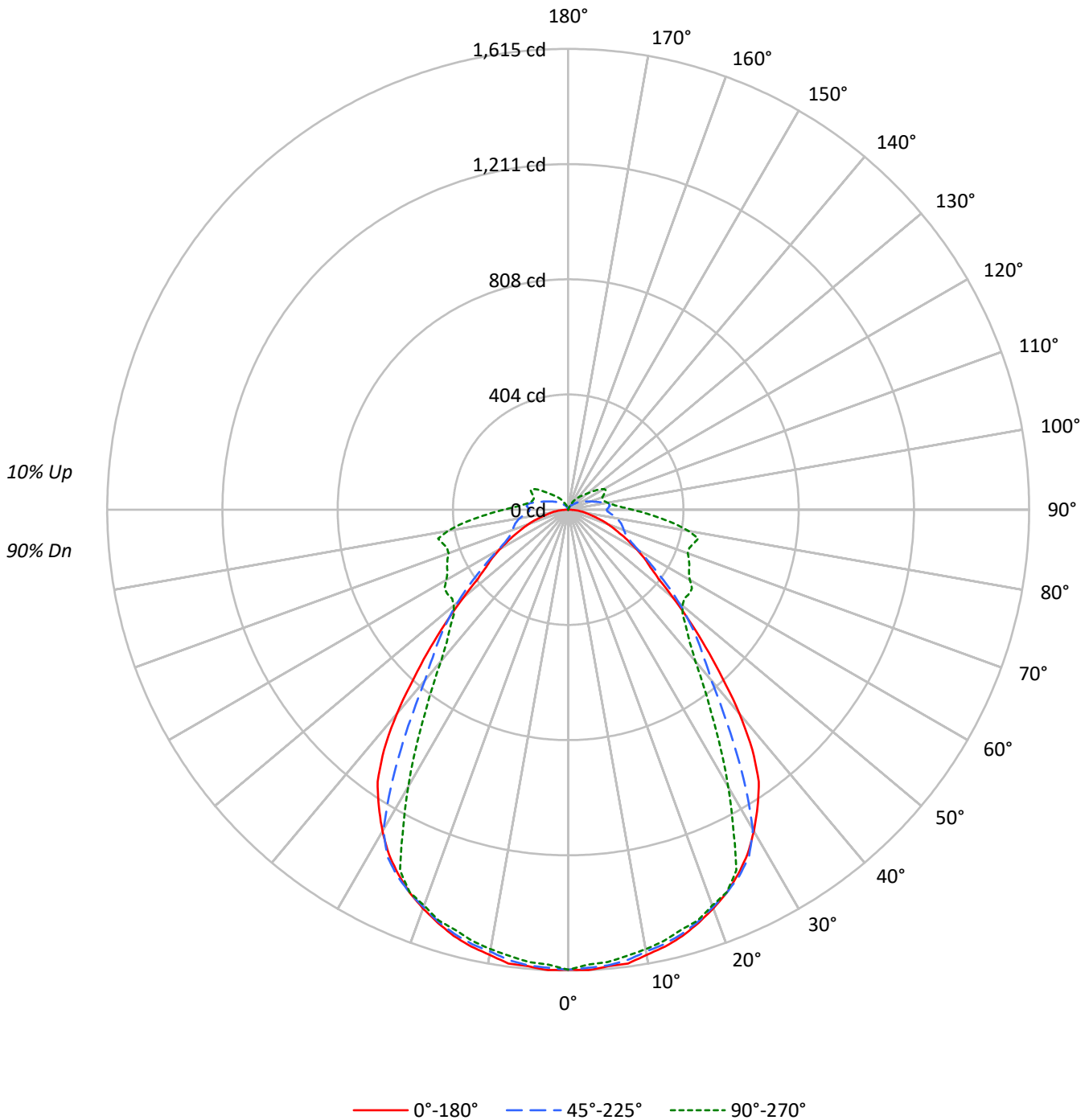
Lumens per Lamp: N/A
Luminaire Lumens: 3844.9 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

Input Watts (W): 36.3
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	98	94	90	92	88	85	86	83	81	81	79	77	74
2	97	89	82	76	93	86	80	75	81	76	71	76	72	68	72	68	65	63
3	89	79	71	65	86	77	69	64	72	66	61	68	63	59	64	60	57	54
4	82	71	62	56	79	69	61	55	65	59	53	62	56	52	58	54	50	48
5	76	64	56	49	73	62	54	49	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	35	60	48	40	35	46	39	34	44	38	33	42	37	33	31
9	58	45	37	32	56	44	37	32	42	36	31	41	35	31	39	34	30	28
10	54	42	34	29	53	41	34	29	39	33	29	38	32	28	36	31	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19037	19037	19037
5°	18932	18253	17920
10°	18782	17409	16961
15°	18594	16713	16063
20°	18261	15906	15225
25°	17825	15146	14193
30°	17106	13881	11354
35°	16058	11066	8893
40°	13662	8625	7096
45°	10687	7239	6106
50°	8174	5960	5603
55°	6619	4658	5721
60°	5866	3699	5699
65°	4985	3188	5719
70°	4314	3120	5815
75°	3570	3199	6409
80°	2990	3193	6596
85°	2343	3149	5501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	4.0
10°-20°	433.6	11.3
20°-30°	641.1	16.7
30°-40°	641.3	16.7
40°-50°	494.5	12.9
50°-60°	366.6	9.5
60°-70°	281.5	7.3
70°-80°	254.1	6.6
80°-90°	198.0	5.1
90°-100°	120.9	3.1
100°-110°	89.1	2.3
110°-120°	74.9	1.9
120°-130°	50.2	1.3
130°-140°	27.8	0.7
140°-150°	13.9	0.4
150°-160°	5.0	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	1226.7	31.9
0°-40°	1868.0	48.6
0°-60°	2729.1	71.0
0°-90°	3462.6	90.1
90°-120°	284.9	7.4
90°-150°	376.8	9.8
90°-180°	382.0	9.9
0°-180°	3844.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1612	1612	1612	1612	1612	
5°	1606	1600	1603	1598	1591	153
15°	1547	1535	1539	1535	1525	436
25°	1409	1410	1417	1419	1394	647
35°	1164	1174	1020	913	876	714
45°	681	647	637	622	585	529
55°	351	355	378	453	516	322
65°	203	181	229	375	468	204
75°	97	125	193	365	455	105
85°	30	72	148	335	319	31
90°	0	40	135	236	225	2
95°	0	34	146	175	167	0
105°	0	28	105	132	128	0
115°	0	24	68	144	142	0
125°	0	22	46	94	119	0
135°	0	18	29	58	71	0
145°	0	12	19	34	44	0
155°	0	5	11	17	20	0
165°	1	1	1	1	1	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°	1612	1612	1612	1612	1612
2.5°	1615	1608	1607	1602	1596
5°	1606	1600	1603	1598	1591
7.5°	1604	1595	1592	1578	1577
10°	1584	1582	1572	1572	1564
12.5°	1568	1560	1559	1554	1548
15°	1547	1535	1539	1535	1525
17.5°	1518	1511	1514	1515	1509
20°	1487	1487	1482	1490	1476
22.5°	1452	1452	1452	1458	1451
25°	1409	1410	1417	1419	1394
27.5°	1361	1367	1371	1308	1250
30°	1301	1311	1294	1165	1121
32.5°	1235	1249	1157	1040	994
35°	1164	1174	1020	913	876
37.5°	1060	1059	889	814	778
40°	934	906	780	723	692
42.5°	799	761	703	664	629
45°	681	647	637	622	585
47.5°	573	562	571	584	544
50°	479	486	506	532	523
52.5°	400	419	440	490	512
55°	351	355	378	453	516
57.5°	316	299	330	424	514
60°	276	249	284	402	492
62.5°	238	207	251	388	477
65°	203	181	229	375	468
67.5°	174	162	216	364	458
70°	147	145	207	358	446
72.5°	121	132	200	357	445
75°	97	125	193	365	455
77.5°	75	119	183	381	467
80°	60	106	172	390	427
82.5°	46	89	160	382	375
85°	30	72	148	335	319
87.5°	14	53	138	284	269
90°	0	40	135	236	225
92.5°	0	36	140	200	190
95°	0	34	146	175	167
97.5°	0	33	145	158	151
100°	0	32	133	145	141
102.5°	0	30	119	136	132
105°	0	28	105	132	128
107.5°	0	27	94	135	127
110°	0	25	84	141	127



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	24	75	147	134
115°	0	24	68	144	142
117.5°	0	23	62	134	148
120°	0	23	56	121	145
122.5°	0	22	51	108	133
125°	0	22	46	94	119
127.5°	0	21	42	84	102
130°	0	20	37	74	89
132.5°	0	20	33	66	79
135°	0	18	29	58	71
137.5°	0	17	26	52	64
140°	0	15	24	45	57
142.5°	0	14	21	39	51
145°	0	12	19	34	44
147.5°	0	10	17	30	37
150°	0	9	16	25	30
152.5°	0	7	13	21	25
155°	0	5	11	17	20
157.5°	0	4	8	11	14
160°	1	2	6	7	9
162.5°	1	2	3	3	5
165°	1	1	1	1	1
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)