

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: P232023

Luminaire Tested: **FVS4M-3-LD4-50-1STD-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232023
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-LD4-50-1STD-P125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
3FT LENGTH, 1-MODULE LED WITH P125 LENS
Light Source: (84) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

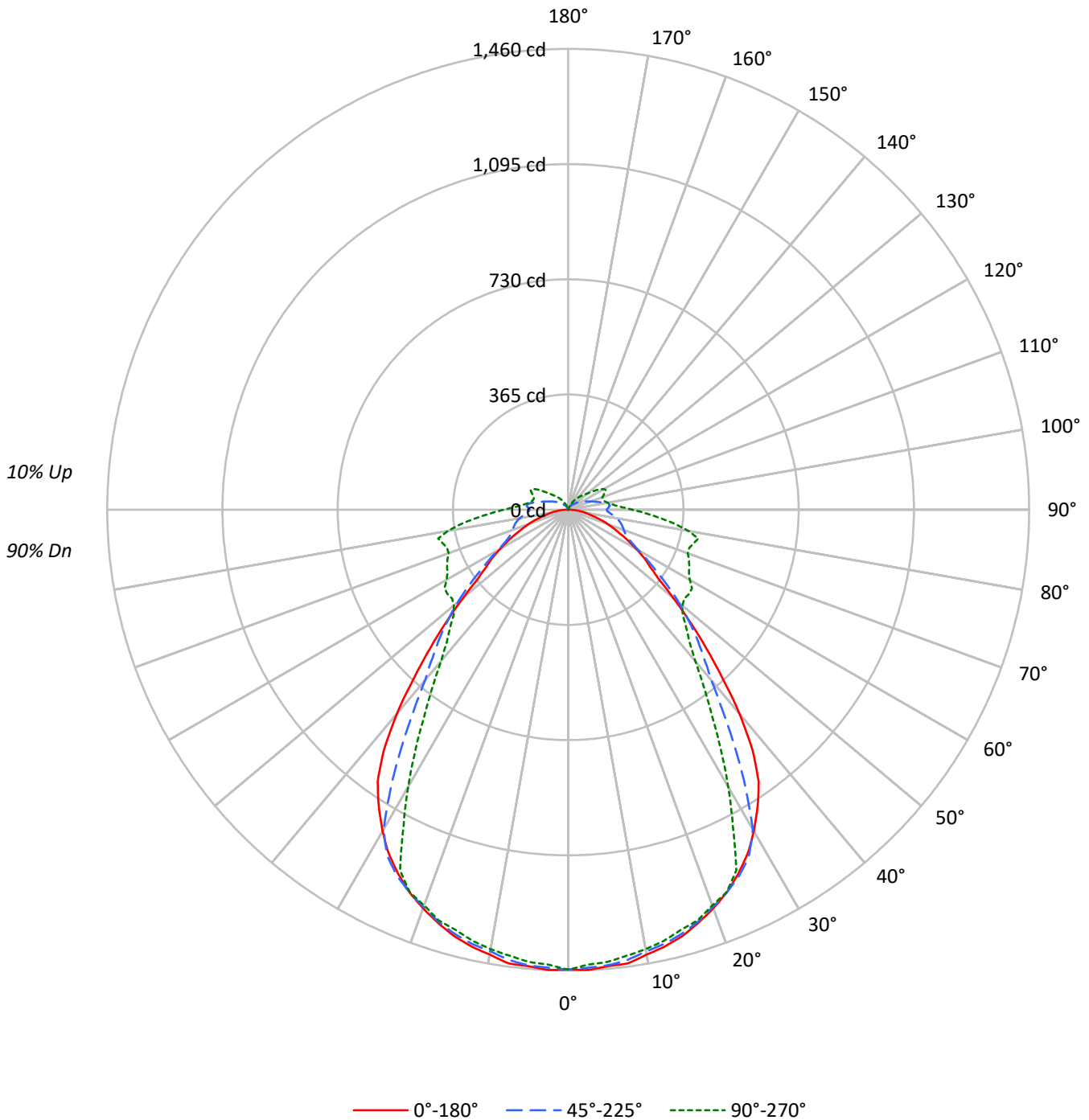
Lumens per Lamp: N/A
Luminaire Lumens: 3475.0 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Direct

Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (A_{in}): 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°	17205	17205	17205
5°	17111	16497	16196
10°	16975	15735	15329
15°	16805	15104	14517
20°	16503	14375	13760
25°	16110	13690	12828
30°	15460	12546	10262
35°	14513	10001	8037
40°	12347	7796	6413
45°	9659	6542	5519
50°	7387	5386	5064
55°	5982	4209	5171
60°	5300	3343	5151
65°	4506	2882	5169
70°	3900	2820	5255
75°	3227	2891	5792
80°	2701	2886	5961
85°	2117	2847	4971



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	4.0
10°-20°	391.9	11.3
20°-30°	579.5	16.7
30°-40°	579.6	16.7
40°-50°	446.9	12.9
50°-60°	331.3	9.5
60°-70°	254.4	7.3
70°-80°	229.7	6.6
80°-90°	178.9	5.1
90°-100°	109.3	3.1
100°-110°	80.5	2.3
110°-120°	67.7	1.9
120°-130°	45.4	1.3
130°-140°	25.1	0.7
140°-150°	12.6	0.4
150°-160°	4.6	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	1108.7	31.9
0°-40°	1688.3	48.6
0°-60°	2466.5	71.0
0°-90°	3129.5	90.1
90°-120°	257.5	7.4
90°-150°	340.5	9.8
90°-180°	346.0	10.0
0°-180°	3475.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1457	1457	1457	1457	1457	
5°	1452	1446	1449	1444	1438	138
15°	1398	1387	1391	1387	1378	394
25°	1273	1274	1281	1282	1260	585
35°	1052	1061	922	825	792	646
45°	616	585	576	562	529	479
55°	317	321	342	409	466	291
65°	184	164	207	339	423	185
75°	88	113	174	330	411	94
85°	27	65	134	303	288	28
90°	0	36	122	213	203	2
95°	0	31	132	158	151	0
105°	0	25	95	119	116	0
115°	0	22	62	130	128	0
125°	0	20	42	85	108	0
135°	0	16	26	52	64	0
145°	0	11	17	31	40	0
155°	0	4	10	15	18	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°	1456.9	1456.9	1456.9	1456.9	1456.9
2.5°	1459.6	1453.3	1452.4	1447.9	1442.5
5°	1451.5	1446.1	1448.8	1444.3	1437.9
7.5°	1449.7	1441.5	1438.8	1426.2	1425.3
10°	1431.6	1429.8	1420.8	1420.8	1413.5
12.5°	1417.1	1409.9	1409.0	1404.5	1399.1
15°	1398.2	1387.3	1390.9	1387.3	1378.3
17.5°	1372.0	1365.6	1368.3	1369.2	1363.8
20°	1343.9	1343.9	1339.4	1346.6	1334.0
22.5°	1312.3	1312.3	1312.3	1317.7	1311.4
25°	1273.4	1274.3	1280.7	1282.5	1259.9
27.5°	1230.1	1235.5	1239.1	1182.2	1129.7
30°	1175.8	1184.9	1169.5	1052.9	1013.2
32.5°	1116.2	1128.8	1045.7	939.9	898.4
35°	1052.0	1061.1	921.9	825.2	791.7
37.5°	958.0	957.1	803.5	735.7	703.1
40°	844.1	818.8	705.0	653.4	625.4
42.5°	722.1	687.8	635.4	600.1	568.5
45°	615.5	584.8	575.7	562.2	528.7
47.5°	517.9	507.9	516.1	527.8	491.7
50°	432.9	439.2	457.3	480.8	472.7
52.5°	361.5	378.7	397.7	442.9	462.7
55°	317.2	320.8	341.6	409.4	466.4
57.5°	285.6	270.2	298.3	383.2	464.5
60°	249.4	225.0	256.7	363.3	444.7
62.5°	215.1	187.1	226.9	350.7	431.1
65°	183.5	163.6	207.0	338.9	423.0
67.5°	157.3	146.4	195.2	329.0	413.9
70°	132.9	131.0	187.1	323.6	403.1
72.5°	109.4	119.3	180.8	322.7	402.2
75°	87.7	113.0	174.4	329.9	411.2
77.5°	67.8	107.6	165.4	344.3	422.1
80°	54.2	95.8	155.5	352.5	385.9
82.5°	41.6	80.4	144.6	345.2	338.9
85°	27.1	65.1	133.8	302.8	288.3
87.5°	12.7	47.9	124.7	256.7	243.1
90°	0.0	36.2	122.0	213.3	203.4
92.5°	0.0	32.5	126.5	180.8	171.7
95°	0.0	30.7	132.0	158.2	150.9
97.5°	0.0	29.8	131.0	142.8	136.5
100°	0.0	28.9	120.2	131.0	127.4
102.5°	0.0	27.1	107.6	122.9	119.3
105°	0.0	25.3	94.9	119.3	115.7
107.5°	0.0	24.4	85.0	122.0	114.8
110°	0.0	22.6	75.9	127.4	114.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	21.7	67.8	132.9	121.1
115°	0.0	21.7	61.5	130.1	128.3
117.5°	0.0	20.8	56.0	121.1	133.8
120°	0.0	20.8	50.6	109.4	131.0
122.5°	0.0	19.9	46.1	97.6	120.2
125°	0.0	19.9	41.6	85.0	107.6
127.5°	0.0	19.0	38.0	75.9	92.2
130°	0.0	18.1	33.4	66.9	80.4
132.5°	0.0	18.1	29.8	59.7	71.4
135°	0.0	16.3	26.2	52.4	64.2
137.5°	0.0	15.4	23.5	47.0	57.8
140°	0.0	13.6	21.7	40.7	51.5
142.5°	0.0	12.7	19.0	35.2	46.1
145°	0.0	10.8	17.2	30.7	39.8
147.5°	0.0	9.0	15.4	27.1	33.4
150°	0.0	8.1	14.5	22.6	27.1
152.5°	0.0	6.3	11.7	19.0	22.6
155°	0.0	4.5	9.9	15.4	18.1
157.5°	0.0	3.6	7.2	9.9	12.7
160°	0.9	1.8	5.4	6.3	8.1
162.5°	0.9	1.8	2.7	2.7	4.5
165°	0.9	0.9	0.9	0.9	0.9
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)