

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: METALUX

Report Number: P298556

Luminaire Tested: **22FPX-42-L850-LV1-SWPD1**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P298556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-179-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22FPX-42-L850-LV1-SWPD1
Description: 2x2 FPX SERIES LED PANEL, 5000K CCT AND 80CRI
Light Source: -
Ballast/Driver: -

Luminaire Equipment:	<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
	AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
	AS-5443-2	Good	REFLECTOR
	AS-5443-3	Good	DRIVER
	AS-5443-4	Good	UPPER MODULE
	AS-5443-5	Good	LENS
	AS-5443-6	Good	DRIVER 2
	AS-5443-7	Good	TRIM RING

Summary

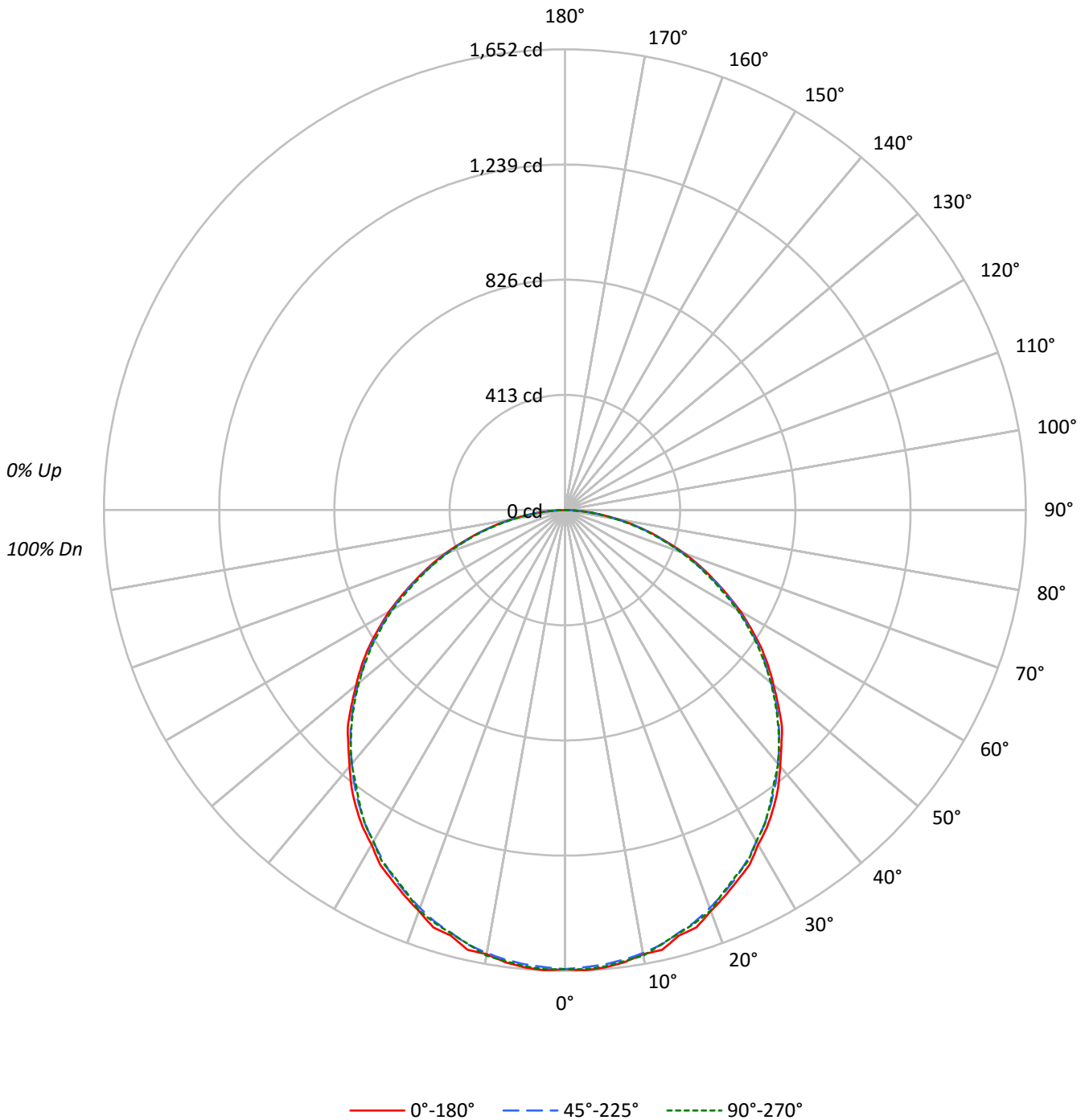
Lumens per Lamp: N/A
Luminaire Lumens: 4681.7 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 40.76
Input Voltage (V): NR
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86	83				83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69				69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	58				58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50				50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43				43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37				37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33				33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29				29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27				27
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4429	4429	4429
5°	4446	4417	4436
10°	4417	4407	4432
15°	4400	4374	4380
20°	4380	4348	4375
25°	4349	4316	4300
30°	4305	4264	4264
35°	4283	4229	4216
40°	4216	4171	4177
45°	4188	4125	4110
50°	4088	4042	4034
55°	4026	3974	3948
60°	3912	3862	3832
65°	3745	3710	3663
70°	3609	3551	3493
75°	3366	3307	3269
80°	3037	2980	2923
85°	2569	2513	2455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	3.3
10°-20°	444.9	9.5
20°-30°	671.4	14.3
30°-40°	807.2	17.2
40°-50°	836.5	17.9
50°-60°	756.7	16.2
60°-70°	577.5	12.3
70°-80°	336.7	7.2
80°-90°	95.1	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1271.9	27.2
0°-40°	2079.1	44.4
0°-60°	3672.3	78.4
0°-90°	4681.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4681.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1646	1646	1646	1646	1646	
5°	1646	1640	1635	1635	1642	156
15°	1580	1578	1570	1574	1572	448
25°	1465	1465	1454	1454	1448	675
35°	1304	1295	1287	1285	1284	815
45°	1100	1088	1084	1078	1080	845
55°	858	853	847	843	842	765
65°	588	588	583	581	575	584
75°	324	322	318	313	314	342
85°	83	87	81	83	80	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1646.0	1646.0	1646.0	1646.0	1646.0
2.5°	1651.6	1642.3	1640.5	1644.2	1647.9
5°	1646.0	1640.5	1635.0	1635.0	1642.3
7.5°	1635.0	1629.4	1625.7	1625.7	1631.3
10°	1616.5	1610.9	1612.8	1612.8	1622.0
12.5°	1614.6	1598.0	1596.1	1598.0	1594.3
15°	1579.5	1577.6	1570.2	1573.9	1572.1
17.5°	1568.4	1557.3	1548.0	1549.9	1551.7
20°	1529.5	1525.8	1518.4	1520.3	1527.7
22.5°	1498.1	1499.9	1487.0	1487.0	1483.3
25°	1464.8	1464.8	1453.7	1453.7	1448.2
27.5°	1433.4	1424.1	1414.9	1416.7	1420.4
30°	1385.3	1381.6	1372.3	1374.2	1372.3
32.5°	1348.3	1346.4	1333.5	1329.8	1333.5
35°	1303.9	1294.6	1287.2	1285.4	1283.5
37.5°	1255.8	1248.4	1239.2	1237.3	1231.8
40°	1200.3	1198.5	1187.4	1189.2	1189.2
42.5°	1148.5	1143.0	1137.4	1133.7	1135.6
45°	1100.4	1087.5	1083.8	1078.3	1080.1
47.5°	1037.6	1032.0	1028.3	1020.9	1022.8
50°	976.5	976.5	965.4	963.6	963.6
52.5°	919.2	915.5	906.3	908.1	902.6
55°	858.2	852.6	847.1	843.4	841.5
57.5°	791.6	786.0	782.3	776.8	776.8
60°	726.9	719.5	717.6	710.2	712.1
62.5°	656.6	654.7	652.9	647.3	641.8
65°	588.1	588.1	582.6	580.7	575.2
67.5°	523.4	519.7	514.2	514.2	510.5
70°	458.7	453.1	451.3	445.7	443.9
72.5°	386.5	386.5	381.0	379.1	379.1
75°	323.7	321.8	318.1	312.6	314.4
77.5°	258.9	257.1	255.2	251.5	249.7
80°	196.0	196.0	192.3	194.2	188.6
82.5°	136.9	138.7	135.0	135.0	131.3
85°	83.2	86.9	81.4	83.2	79.5
87.5°	35.1	35.1	33.3	33.3	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)