

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: P298554

Luminaire Tested: **22FPX-42-L835-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: P298554  
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-L835-LV1-SWPD1  
Description: 2x2 FPX SERIES LED PANEL, 3500K 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

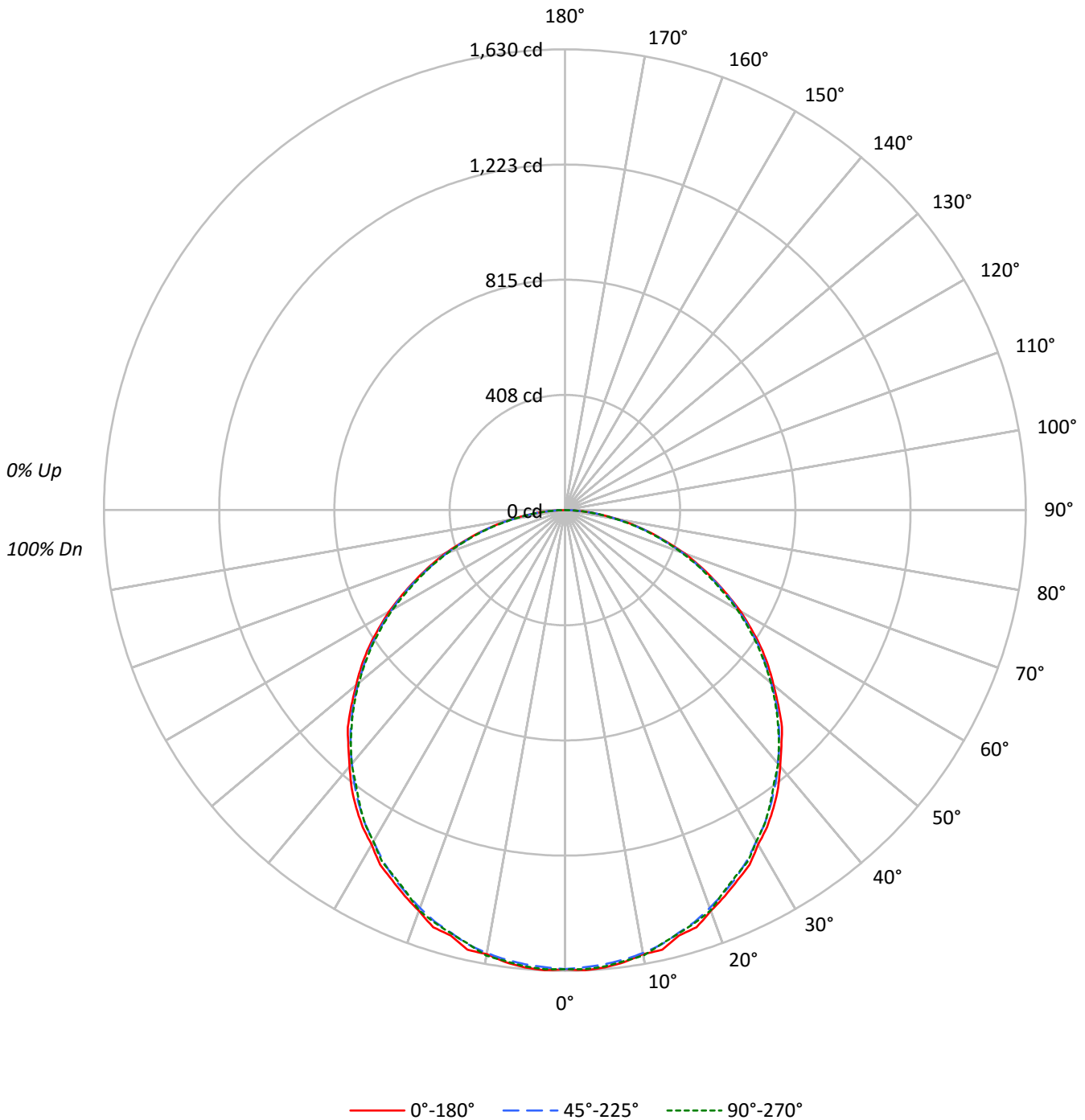
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4619.0 lumens  
Efficiency: N/A  
Efficacy: 113.9 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): 40.55  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4370	4370	4370
5°	4387	4357	4377
10°	4358	4348	4373
15°	4341	4316	4321
20°	4321	4290	4316
25°	4291	4258	4242
30°	4247	4207	4207
35°	4226	4172	4160
40°	4160	4115	4122
45°	4132	4069	4055
50°	4034	3988	3980
55°	3972	3921	3895
60°	3859	3810	3781
65°	3695	3660	3613
70°	3560	3503	3445
75°	3320	3264	3225
80°	2997	2941	2884
85°	2535	2479	2424



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.5	3.3
10°-20°	438.9	9.5
20°-30°	662.4	14.3
30°-40°	796.4	17.2
40°-50°	825.3	17.9
50°-60°	746.6	16.2
60°-70°	569.8	12.3
70°-80°	332.2	7.2
80°-90°	93.9	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°	1254.8	27.2
0°-40°	2051.3	44.4
0°-60°	3623.1	78.4
0°-90°	4619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4619.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1624	1624	1624	1624	1624	
5°	1624	1618	1613	1613	1620	154
15°	1558	1556	1549	1553	1551	442
25°	1445	1445	1434	1434	1429	666
35°	1286	1277	1270	1268	1266	804
45°	1086	1073	1069	1064	1066	833
55°	847	841	836	832	830	755
65°	580	580	575	573	568	576
75°	319	318	314	308	310	337
85°	82	86	80	82	78	95
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1624.0	1624.0	1624.0	1624.0	1624.0
2.5°	1629.5	1620.4	1618.5	1622.2	1625.8
5°	1624.0	1618.5	1613.1	1613.1	1620.4
7.5°	1613.1	1607.6	1603.9	1603.9	1609.4
10°	1594.8	1589.3	1591.2	1591.2	1600.3
12.5°	1593.0	1576.6	1574.7	1576.6	1572.9
15°	1558.3	1556.5	1549.2	1552.8	1551.0
17.5°	1547.4	1536.4	1527.3	1529.1	1530.9
20°	1509.0	1505.4	1498.1	1499.9	1507.2
22.5°	1478.0	1479.8	1467.1	1467.1	1463.4
25°	1445.2	1445.2	1434.2	1434.2	1428.8
27.5°	1414.2	1405.0	1395.9	1397.7	1401.4
30°	1366.7	1363.1	1353.9	1355.8	1353.9
32.5°	1330.2	1328.4	1315.6	1312.0	1315.6
35°	1286.4	1277.3	1270.0	1268.2	1266.4
37.5°	1239.0	1231.7	1222.6	1220.7	1215.3
40°	1184.2	1182.4	1171.5	1173.3	1173.3
42.5°	1133.2	1127.7	1122.2	1118.6	1120.4
45°	1085.7	1072.9	1069.3	1063.8	1065.6
47.5°	1023.7	1018.2	1014.5	1007.2	1009.1
50°	963.5	963.5	952.5	950.7	950.7
52.5°	906.9	903.2	894.1	895.9	890.5
55°	846.7	841.2	835.7	832.1	830.2
57.5°	781.0	775.5	771.9	766.4	766.4
60°	717.1	709.8	708.0	700.7	702.5
62.5°	647.8	646.0	644.1	638.7	633.2
65°	580.3	580.3	574.8	573.0	567.5
67.5°	516.4	512.7	507.3	507.3	503.6
70°	452.5	447.1	445.2	439.8	437.9
72.5°	381.4	381.4	375.9	374.1	374.1
75°	319.3	317.5	313.9	308.4	310.2
77.5°	255.5	253.6	251.8	248.2	246.3
80°	193.4	193.4	189.8	191.6	186.1
82.5°	135.0	136.9	133.2	133.2	129.6
85°	82.1	85.8	80.3	82.1	78.5
87.5°	34.7	34.7	32.8	32.8	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)