

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: P298567

Luminaire Tested: **22FPX-42-L840-SD-SWPD1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P298567  
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-L840-SD-SWPD1  
Description: 2x2 FPX SERIES LED PANEL, 4000K CCT AND 80CRI  
Light Source: -  
Ballast/Driver: -

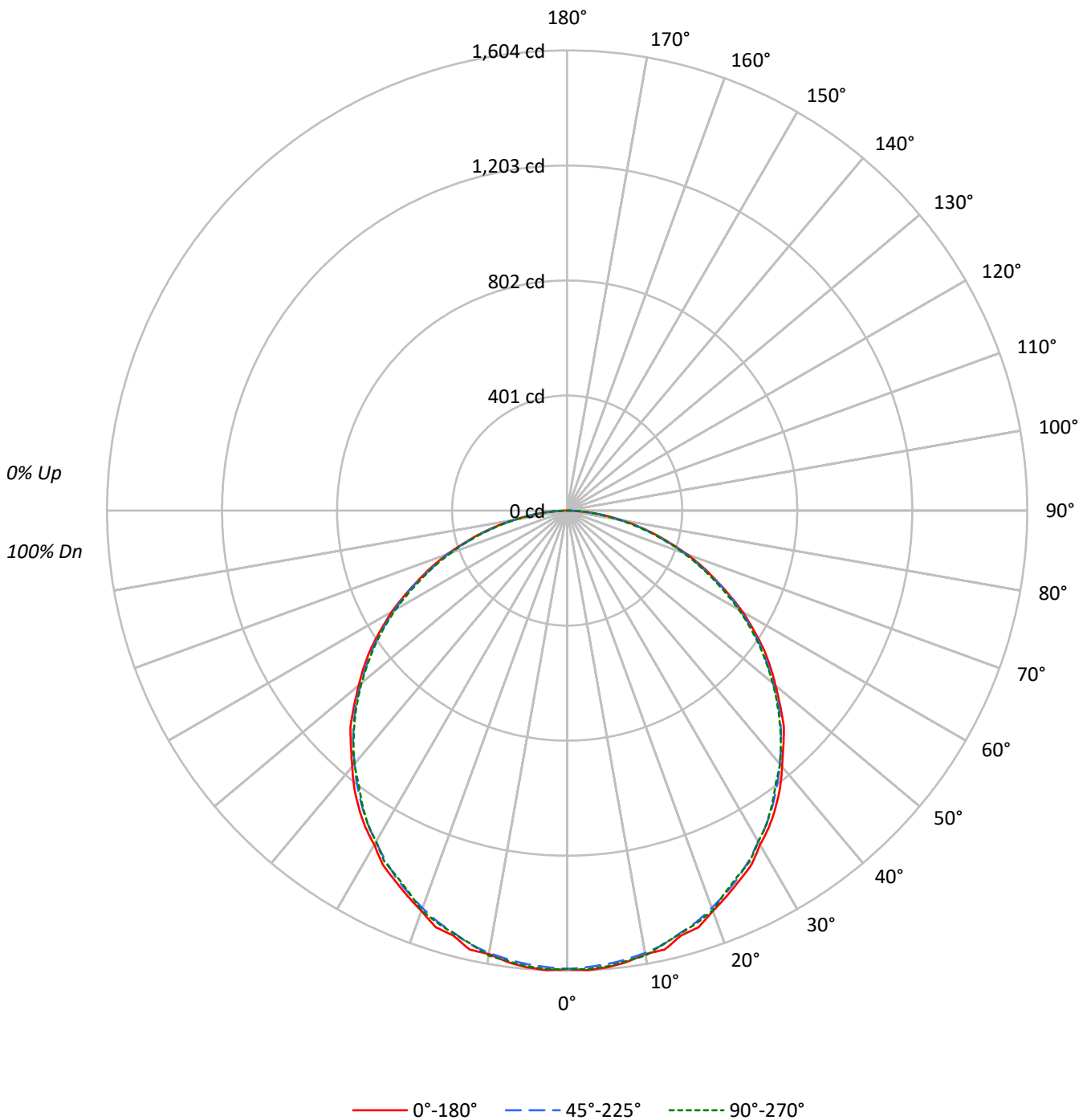
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4545.4 lumens  
Efficiency: N/A  
Efficacy: 109.3 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): 41.5857107490168  
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°	4300	4300	4300
5°	4317	4288	4307
10°	4288	4279	4303
15°	4272	4247	4252
20°	4253	4222	4247
25°	4222	4191	4175
30°	4179	4140	4140
35°	4159	4106	4094
40°	4094	4050	4056
45°	4066	4004	3991
50°	3969	3924	3916
55°	3909	3858	3833
60°	3798	3750	3721
65°	3636	3601	3556
70°	3504	3447	3391
75°	3267	3211	3174
80°	2949	2893	2839
85°	2495	2439	2384



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.1	3.3
10°-20°	431.9	9.5
20°-30°	651.8	14.3
30°-40°	783.7	17.2
40°-50°	812.1	17.9
50°-60°	734.7	16.2
60°-70°	560.7	12.3
70°-80°	326.9	7.2
80°-90°	92.4	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°	1234.8	27.2
0°-40°	2018.6	44.4
0°-60°	3565.4	78.4
0°-90°	4545.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4545.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1598	1598	1598	1598	1598	
5°	1598	1593	1587	1587	1594	152
15°	1534	1532	1524	1528	1526	435
25°	1422	1422	1411	1411	1406	656
35°	1266	1257	1250	1248	1246	791
45°	1068	1056	1052	1047	1049	820
55°	833	828	822	819	817	743
65°	571	571	566	564	558	567
75°	314	312	309	304	305	332
85°	81	84	79	81	77	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1598.1	1598.1	1598.1	1598.1	1598.1
2.5°	1603.5	1594.5	1592.7	1596.3	1599.9
5°	1598.1	1592.7	1587.3	1587.3	1594.5
7.5°	1587.3	1581.9	1578.4	1578.4	1583.7
10°	1569.4	1564.0	1565.8	1565.8	1574.8
12.5°	1567.6	1551.4	1549.6	1551.4	1547.8
15°	1533.5	1531.7	1524.5	1528.1	1526.3
17.5°	1522.7	1511.9	1502.9	1504.7	1506.5
20°	1485.0	1481.4	1474.2	1476.0	1483.2
22.5°	1454.5	1456.3	1443.7	1443.7	1440.1
25°	1422.1	1422.1	1411.4	1411.4	1406.0
27.5°	1391.6	1382.6	1373.7	1375.5	1379.0
30°	1344.9	1341.3	1332.4	1334.2	1332.4
32.5°	1309.0	1307.2	1294.6	1291.1	1294.6
35°	1265.9	1256.9	1249.8	1248.0	1246.2
37.5°	1219.2	1212.0	1203.1	1201.3	1195.9
40°	1165.4	1163.6	1152.8	1154.6	1154.6
42.5°	1115.1	1109.7	1104.3	1100.7	1102.5
45°	1068.4	1055.8	1052.2	1046.9	1048.6
47.5°	1007.3	1002.0	998.4	991.2	993.0
50°	948.1	948.1	937.3	935.5	935.5
52.5°	892.4	888.8	879.9	881.7	876.3
55°	833.2	827.8	822.4	818.8	817.0
57.5°	768.5	763.1	759.6	754.2	754.2
60°	705.7	698.5	696.7	689.5	691.3
62.5°	637.4	635.7	633.9	628.5	623.1
65°	571.0	571.0	565.6	563.8	558.4
67.5°	508.2	504.6	499.2	499.2	495.6
70°	445.3	439.9	438.1	432.7	431.0
72.5°	375.3	375.3	369.9	368.1	368.1
75°	314.2	312.4	308.8	303.5	305.3
77.5°	251.4	249.6	247.8	244.2	242.4
80°	190.3	190.3	186.7	188.5	183.2
82.5°	132.9	134.7	131.1	131.1	127.5
85°	80.8	84.4	79.0	80.8	77.2
87.5°	34.1	34.1	32.3	32.3	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)