

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: P298694

Luminaire Tested: **24FPX-38-L840-HE-HCD-SWPD1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P298694  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-179-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24FPX-38-L840-HE-HCD-SWPD1  
Description: 2x4 FPX SERIES LED PANEL, 4000K CCT AND 80CRI  
Light Source: -  
Ballast/Driver: -

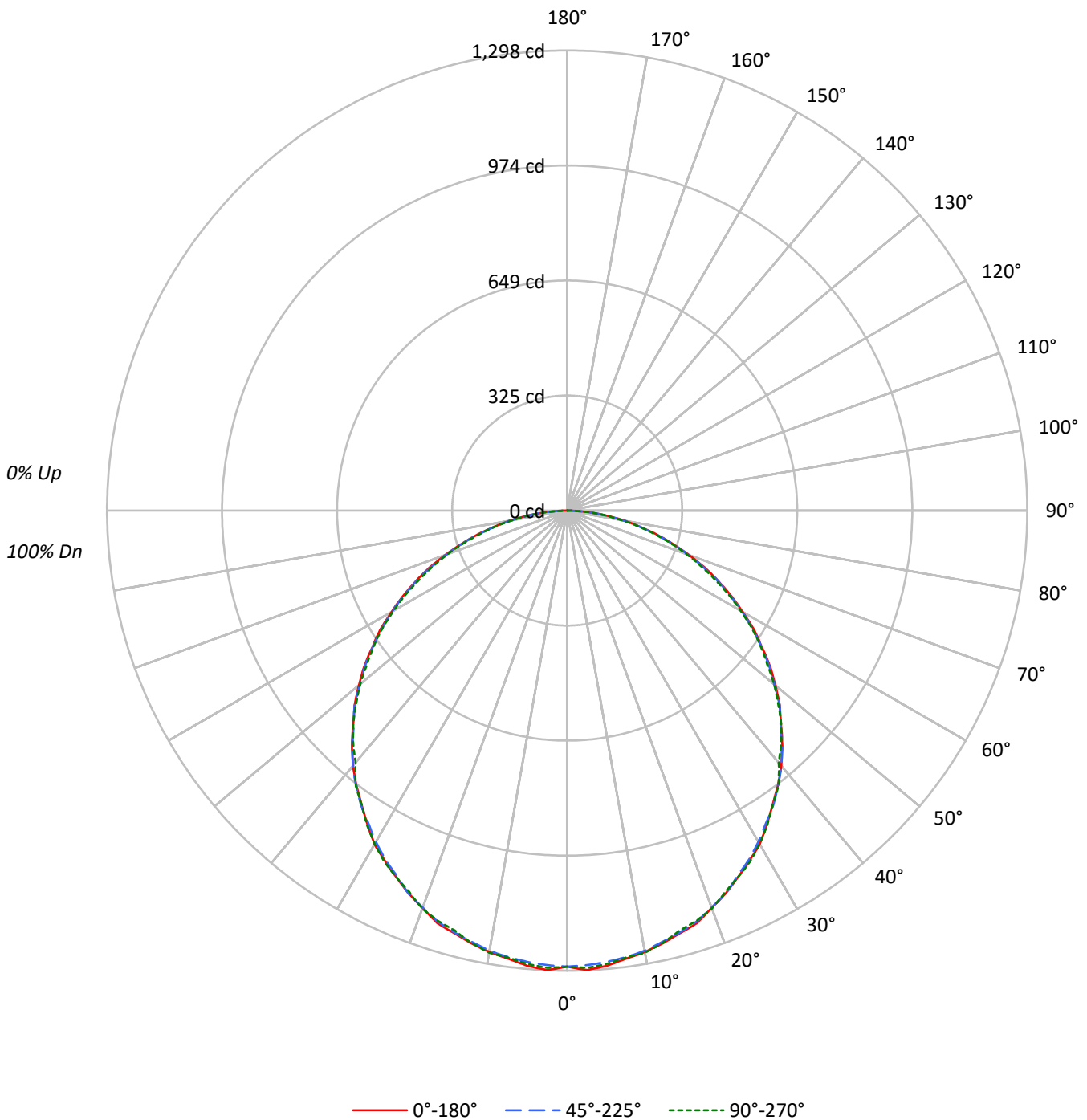
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3700.5 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 29.4633564351764  
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	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
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°	1731	1731	1731
5°	1741	1726	1734
10°	1727	1723	1730
15°	1718	1716	1708
20°	1708	1706	1711
25°	1693	1687	1693
30°	1688	1677	1687
35°	1661	1666	1661
40°	1650	1652	1631
45°	1623	1619	1625
50°	1605	1596	1596
55°	1573	1570	1563
60°	1539	1533	1522
65°	1498	1491	1463
70°	1438	1425	1408
75°	1366	1343	1321
80°	1274	1231	1215
85°	1118	1068	1051



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.6	3.3
10°-20°	347.3	9.4
20°-30°	526.0	14.2
30°-40°	633.8	17.1
40°-50°	659.0	17.8
50°-60°	598.1	16.2
60°-70°	461.7	12.5
70°-80°	273.5	7.4
80°-90°	79.4	2.1
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°	994.9	26.9
0°-40°	1628.7	44.0
0°-60°	2885.9	78.0
0°-90°	3700.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3700.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1287	1287	1287	1287	1287	
5°	1289	1282	1278	1275	1284	122
15°	1234	1228	1232	1229	1226	349
25°	1141	1142	1136	1138	1141	527
35°	1011	1012	1014	1013	1011	634
45°	853	855	851	853	854	660
55°	670	673	669	668	666	601
65°	470	470	468	464	460	466
75°	263	261	258	256	254	277
85°	72	69	69	68	68	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1286.7	1286.7	1286.7	1286.7	1286.7
2.5°	1297.5	1281.3	1283.5	1279.1	1291.0
5°	1288.9	1282.4	1278.1	1274.8	1283.5
7.5°	1274.8	1269.4	1270.5	1269.4	1271.6
10°	1264.0	1264.0	1260.8	1257.5	1266.2
12.5°	1250.0	1250.0	1245.6	1242.4	1248.9
15°	1233.7	1228.3	1231.6	1229.4	1226.2
17.5°	1219.7	1213.2	1215.4	1205.6	1213.2
20°	1192.6	1190.5	1191.6	1186.2	1194.8
22.5°	1168.9	1172.1	1169.9	1167.8	1164.5
25°	1140.7	1141.8	1136.4	1137.5	1140.7
27.5°	1113.7	1117.0	1110.5	1110.5	1117.0
30°	1086.7	1082.4	1079.1	1085.6	1085.6
32.5°	1048.8	1044.5	1044.5	1047.8	1051.0
35°	1011.0	1012.1	1014.2	1013.2	1011.0
37.5°	976.4	974.2	977.5	977.5	979.6
40°	939.6	941.8	940.7	936.4	928.8
42.5°	898.5	900.7	895.3	900.7	893.1
45°	853.1	855.3	851.0	853.1	854.2
47.5°	813.1	811.0	813.1	809.9	807.7
50°	766.6	765.5	762.3	762.3	762.3
52.5°	721.2	718.0	718.0	718.0	711.5
55°	670.4	672.6	669.3	668.2	666.1
57.5°	625.0	620.7	619.6	619.6	618.5
60°	572.0	570.9	569.8	567.7	565.5
62.5°	522.3	517.9	519.0	516.8	513.6
65°	470.4	470.4	468.2	463.9	459.5
67.5°	420.6	418.5	415.2	413.0	408.7
70°	365.5	364.4	362.2	360.1	357.9
72.5°	312.5	311.4	310.3	308.2	306.0
75°	262.7	260.6	258.4	256.3	254.1
77.5°	210.8	209.8	208.7	205.4	205.4
80°	164.4	161.1	158.9	157.9	156.8
82.5°	115.7	115.7	113.5	112.5	112.5
85°	72.4	69.2	69.2	68.1	68.1
87.5°	31.4	30.3	28.1	28.1	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)