

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: P298717

Luminaire Tested: **24FPX-38-L835-HE-SR-LWIPD1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P298717  
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-L835-HE-SR-LWIPD1  
Description: 2x4 FPX SERIES LED PANEL, 3500K CCT AND 80CRI  
Light Source: -  
Ballast/Driver: -

**Summary**

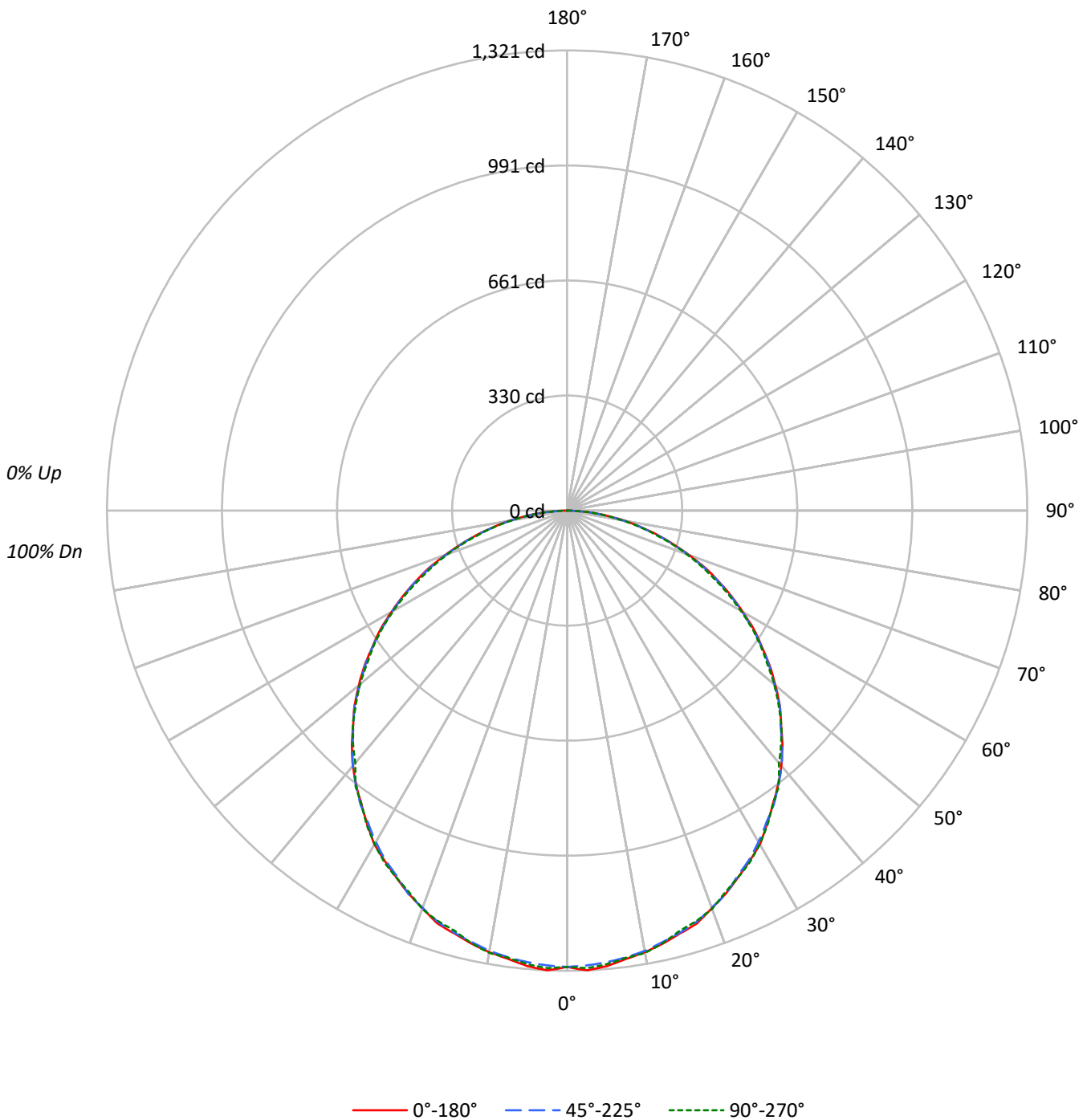
Lumens per Lamp: N/A  
Luminaire Lumens: 3768.0 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.2732974137749  
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°	1763	1763	1763
5°	1773	1758	1765
10°	1758	1754	1762
15°	1750	1747	1739
20°	1739	1737	1742
25°	1724	1718	1724
30°	1719	1707	1717
35°	1691	1696	1691
40°	1681	1682	1661
45°	1653	1649	1655
50°	1634	1625	1625
55°	1601	1599	1591
60°	1567	1561	1549
65°	1525	1518	1490
70°	1464	1451	1434
75°	1391	1368	1345
80°	1297	1254	1237
85°	1139	1088	1071



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.8	3.3
10°-20°	353.7	9.4
20°-30°	535.6	14.2
30°-40°	645.4	17.1
40°-50°	671.1	17.8
50°-60°	609.0	16.2
60°-70°	470.1	12.5
70°-80°	278.5	7.4
80°-90°	80.9	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°	1013.1	26.9
0°-40°	1658.4	44.0
0°-60°	2938.5	78.0
0°-90°	3768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3768.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1312	1306	1301	1298	1307	124
15°	1256	1251	1254	1252	1248	355
25°	1162	1163	1157	1158	1162	536
35°	1029	1030	1033	1032	1029	646
45°	869	871	866	869	870	672
55°	683	685	682	680	678	612
65°	479	479	477	472	468	474
75°	268	265	263	261	259	282
85°	74	70	70	69	69	84
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1310.2	1310.2	1310.2	1310.2	1310.2
2.5°	1321.2	1304.7	1306.9	1302.5	1314.6
5°	1312.4	1305.8	1301.4	1298.1	1306.9
7.5°	1298.1	1292.6	1293.7	1292.6	1294.8
10°	1287.1	1287.1	1283.8	1280.5	1289.3
12.5°	1272.8	1272.8	1268.4	1265.1	1271.7
15°	1256.3	1250.7	1254.1	1251.8	1248.5
17.5°	1241.9	1235.3	1237.5	1227.6	1235.3
20°	1214.4	1212.2	1213.3	1207.8	1216.6
22.5°	1190.2	1193.5	1191.3	1189.1	1185.8
25°	1161.6	1162.7	1157.2	1158.3	1161.6
27.5°	1134.0	1137.3	1130.7	1130.7	1137.3
30°	1106.5	1102.1	1098.8	1105.4	1105.4
32.5°	1068.0	1063.6	1063.6	1066.9	1070.2
35°	1029.4	1030.5	1032.7	1031.6	1029.4
37.5°	994.2	992.0	995.3	995.3	997.5
40°	956.8	959.0	957.9	953.5	945.8
42.5°	914.9	917.1	911.6	917.1	909.4
45°	868.7	870.9	866.5	868.7	869.8
47.5°	828.0	825.8	828.0	824.7	822.5
50°	780.6	779.5	776.2	776.2	776.2
52.5°	734.4	731.1	731.1	731.1	724.5
55°	682.6	684.8	681.5	680.4	678.2
57.5°	636.4	632.0	630.9	630.9	629.8
60°	582.4	581.3	580.2	578.0	575.8
62.5°	531.8	527.4	528.5	526.3	523.0
65°	478.9	478.9	476.7	472.3	467.9
67.5°	428.3	426.1	422.8	420.6	416.2
70°	372.1	371.0	368.8	366.6	364.4
72.5°	318.2	317.1	316.0	313.8	311.6
75°	267.5	265.3	263.1	260.9	258.7
77.5°	214.7	213.6	212.5	209.2	209.2
80°	167.4	164.1	161.8	160.7	159.6
82.5°	117.8	117.8	115.6	114.5	114.5
85°	73.8	70.5	70.5	69.4	69.4
87.5°	31.9	30.8	28.6	28.6	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)