

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: P298690

Luminaire Tested: **24FPX-31-L830-HCD-SWPD1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P298690  
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-31-L830-HCD-SWPD1  
Description: 2x4 FPX SERIES LED PANEL, 3000K CCT AND 80CRI  
Light Source: -  
Ballast/Driver: -

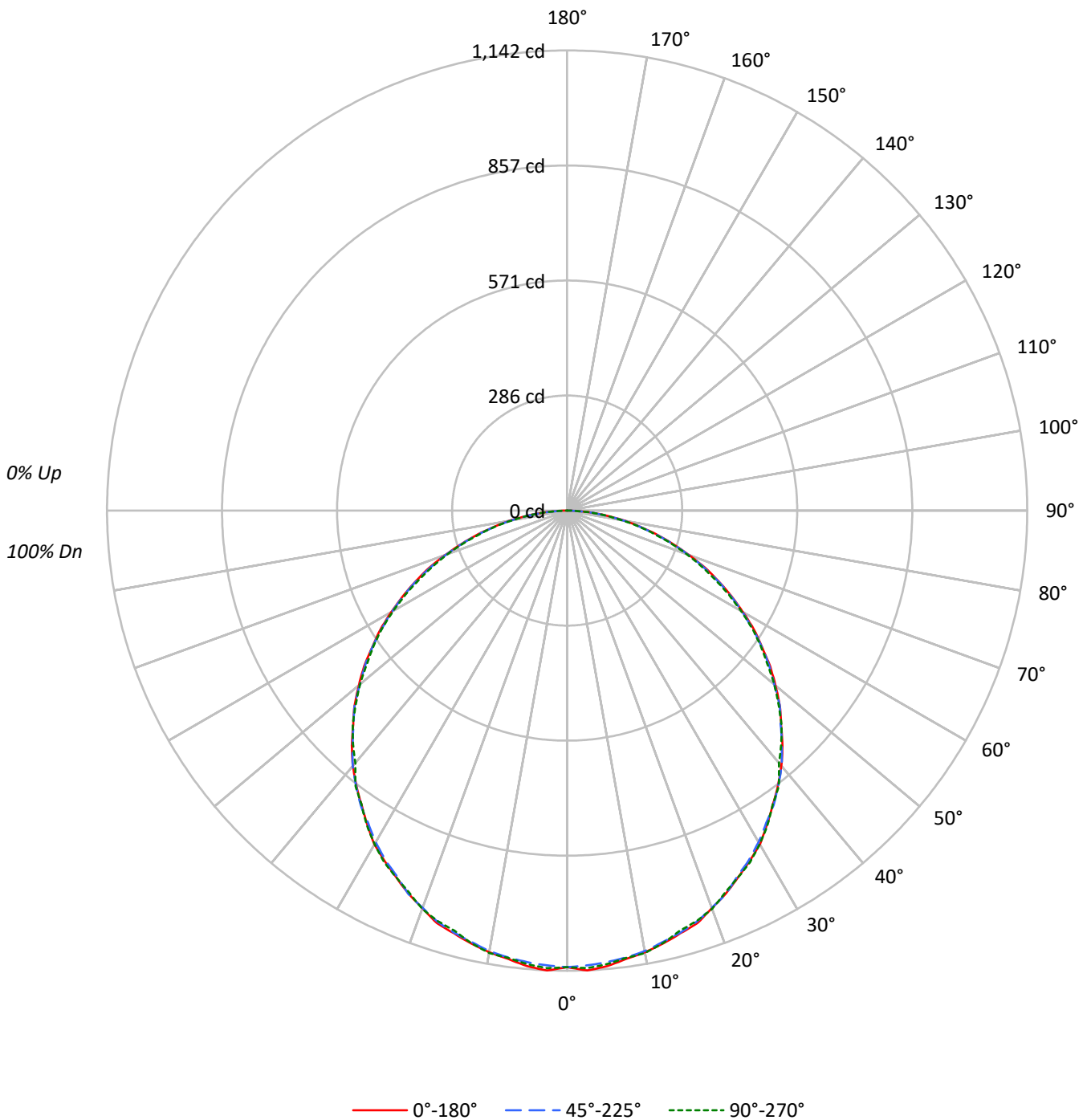
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3258.0 lumens  
Efficiency: N/A  
Efficacy: 109.1 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): 29.8739955492555  
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°	1524	1524	1524
5°	1533	1520	1526
10°	1520	1517	1523
15°	1513	1510	1504
20°	1503	1502	1506
25°	1491	1485	1491
30°	1486	1476	1485
35°	1462	1467	1462
40°	1453	1455	1436
45°	1429	1426	1431
50°	1413	1405	1405
55°	1384	1382	1376
60°	1355	1350	1340
65°	1318	1312	1288
70°	1266	1255	1240
75°	1202	1183	1163
80°	1121	1084	1069
85°	985	940	926



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.0	3.3
10°-20°	305.8	9.4
20°-30°	463.1	14.2
30°-40°	558.0	17.1
40°-50°	580.2	17.8
50°-60°	526.6	16.2
60°-70°	406.5	12.5
70°-80°	240.8	7.4
80°-90°	69.9	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°	875.9	26.9
0°-40°	1433.9	44.0
0°-60°	2540.7	78.0
0°-90°	3258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3258.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1135	1129	1125	1122	1130	108
15°	1086	1081	1084	1082	1080	307
25°	1004	1005	1000	1002	1004	464
35°	890	891	893	892	890	558
45°	751	753	749	751	752	581
55°	590	592	589	588	586	529
65°	414	414	412	408	405	410
75°	231	229	228	226	224	244
85°	64	61	61	60	60	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1132.9	1132.9	1132.9	1132.9	1132.9
2.5°	1142.4	1128.1	1130.0	1126.2	1136.7
5°	1134.8	1129.0	1125.2	1122.4	1130.0
7.5°	1122.4	1117.6	1118.6	1117.6	1119.5
10°	1112.9	1112.9	1110.0	1107.2	1114.8
12.5°	1100.5	1100.5	1096.7	1093.8	1099.5
15°	1086.2	1081.4	1084.3	1082.4	1079.5
17.5°	1073.8	1068.1	1070.0	1061.5	1068.1
20°	1050.0	1048.1	1049.1	1044.3	1051.9
22.5°	1029.1	1031.9	1030.0	1028.1	1025.3
25°	1004.3	1005.3	1000.5	1001.5	1004.3
27.5°	980.5	983.4	977.7	977.7	983.4
30°	956.7	952.9	950.1	955.8	955.8
32.5°	923.4	919.6	919.6	922.5	925.3
35°	890.1	891.1	893.0	892.0	890.1
37.5°	859.6	857.7	860.6	860.6	862.5
40°	827.3	829.2	828.2	824.4	817.7
42.5°	791.1	793.0	788.2	793.0	786.3
45°	751.1	753.0	749.2	751.1	752.1
47.5°	715.9	714.0	715.9	713.0	711.1
50°	675.0	674.0	671.1	671.1	671.1
52.5°	635.0	632.1	632.1	632.1	626.4
55°	590.2	592.1	589.3	588.3	586.4
57.5°	550.2	546.4	545.5	545.5	544.5
60°	503.6	502.6	501.7	499.8	497.9
62.5°	459.8	456.0	456.9	455.0	452.2
65°	414.1	414.1	412.2	408.4	404.6
67.5°	370.3	368.4	365.6	363.7	359.8
70°	321.8	320.8	318.9	317.0	315.1
72.5°	275.1	274.2	273.2	271.3	269.4
75°	231.3	229.4	227.5	225.6	223.7
77.5°	185.6	184.7	183.7	180.9	180.9
80°	144.7	141.8	139.9	139.0	138.0
82.5°	101.9	101.9	100.0	99.0	99.0
85°	63.8	60.9	60.9	60.0	60.0
87.5°	27.6	26.7	24.8	24.8	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)