

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: P298772

Luminaire Tested: **24FPX-31-L835-L5-SWPD1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P298772  
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-L835-L5-SWPD1  
Description: 2x4 FPX SERIES LED PANEL, 3500K CCT AND 80CRI  
Light Source: -  
Ballast/Driver: -

**Summary**

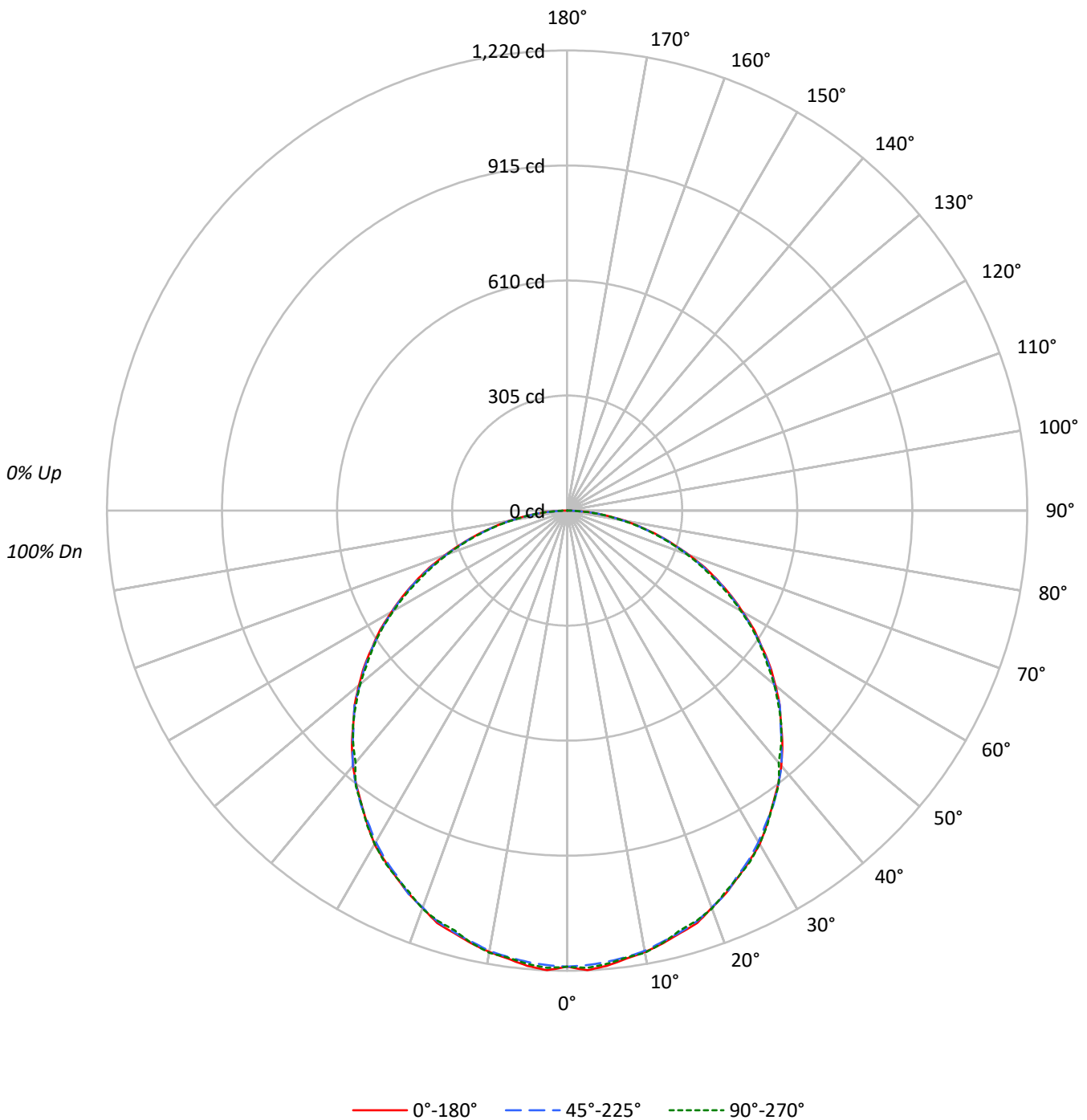
Lumens per Lamp: N/A  
Luminaire Lumens: 3478.2 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.5256079282656  
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

TEST NUMBER: P298772

CATALOG NUMBER: 24FPX-31-L835-L5-SWPD1

### Luminous Intensity Polar Plot





TEST NUMBER: P298772

CATALOG NUMBER: 24FPX-31-L835-L5-SWPD1

**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°	1627	1627	1627
5°	1636	1623	1629
10°	1623	1619	1626
15°	1615	1612	1605
20°	1605	1604	1608
25°	1592	1586	1592
30°	1587	1576	1585
35°	1561	1566	1561
40°	1551	1553	1533
45°	1526	1522	1528
50°	1508	1500	1500
55°	1478	1476	1469
60°	1447	1441	1430
65°	1408	1401	1375
70°	1351	1340	1323
75°	1284	1263	1241
80°	1197	1158	1142
85°	1051	1003	988



TEST NUMBER: P298772

CATALOG NUMBER: 24FPX-31-L835-L5-SWPD1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.3	3.3
10°-20°	326.5	9.4
20°-30°	494.4	14.2
30°-40°	595.7	17.1
40°-50°	619.5	17.8
50°-60°	562.2	16.2
60°-70°	434.0	12.5
70°-80°	257.1	7.4
80°-90°	74.6	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°	935.2	26.9
0°-40°	1530.9	44.0
0°-60°	2712.5	78.0
0°-90°	3478.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3478.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1209	1209	1209	1209	1209	
5°	1212	1205	1201	1198	1206	115
15°	1160	1155	1158	1156	1152	328
25°	1072	1073	1068	1069	1072	495
35°	950	951	953	952	950	596
45°	802	804	800	802	803	620
55°	630	632	629	628	626	565
65°	442	442	440	436	432	438
75°	247	245	243	241	239	261
85°	68	65	65	64	64	77
90°	0	0	0	0	0	



TEST NUMBER: P298772

CATALOG NUMBER: 24FPX-31-L835-L5-SWPD1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1209.4	1209.4	1209.4	1209.4	1209.4
2.5°	1219.6	1204.4	1206.4	1202.3	1213.5
5°	1211.5	1205.4	1201.3	1198.3	1206.4
7.5°	1198.3	1193.2	1194.2	1193.2	1195.2
10°	1188.1	1188.1	1185.1	1182.0	1190.1
12.5°	1174.9	1174.9	1170.8	1167.8	1173.9
15°	1159.6	1154.6	1157.6	1155.6	1152.5
17.5°	1146.4	1140.3	1142.4	1133.2	1140.3
20°	1121.0	1119.0	1120.0	1114.9	1123.1
22.5°	1098.7	1101.7	1099.7	1097.6	1094.6
25°	1072.2	1073.3	1068.2	1069.2	1072.2
27.5°	1046.8	1049.9	1043.8	1043.8	1049.9
30°	1021.4	1017.4	1014.3	1020.4	1020.4
32.5°	985.8	981.8	981.8	984.8	987.9
35°	950.3	951.3	953.3	952.3	950.3
37.5°	917.8	915.7	918.8	918.8	920.8
40°	883.2	885.2	884.2	880.2	873.0
42.5°	844.6	846.6	841.5	846.6	839.5
45°	801.9	803.9	799.9	801.9	802.9
47.5°	764.3	762.3	764.3	761.2	759.2
50°	720.6	719.6	716.5	716.5	716.5
52.5°	677.9	674.8	674.8	674.8	668.8
55°	630.1	632.2	629.1	628.1	626.1
57.5°	587.4	583.4	582.4	582.4	581.3
60°	537.6	536.6	535.6	533.6	531.5
62.5°	490.9	486.8	487.8	485.8	482.8
65°	442.1	442.1	440.1	436.0	431.9
67.5°	395.4	393.3	390.3	388.2	384.2
70°	343.5	342.5	340.5	338.4	336.4
72.5°	293.7	292.7	291.7	289.7	287.6
75°	247.0	244.9	242.9	240.9	238.8
77.5°	198.2	197.2	196.2	193.1	193.1
80°	154.5	151.4	149.4	148.4	147.4
82.5°	108.7	108.7	106.7	105.7	105.7
85°	68.1	65.0	65.0	64.0	64.0
87.5°	29.5	28.5	26.4	26.4	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)