

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: P298474

Luminaire Tested: **22FPX-21-L835-SWPD1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P298474  
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-21-L835-SWPD1  
Description: 2x2 FPX SERIES LED PANEL, 3500K CCT AND 80CRI  
Light Source: -  
Ballast/Driver: -

**Summary**

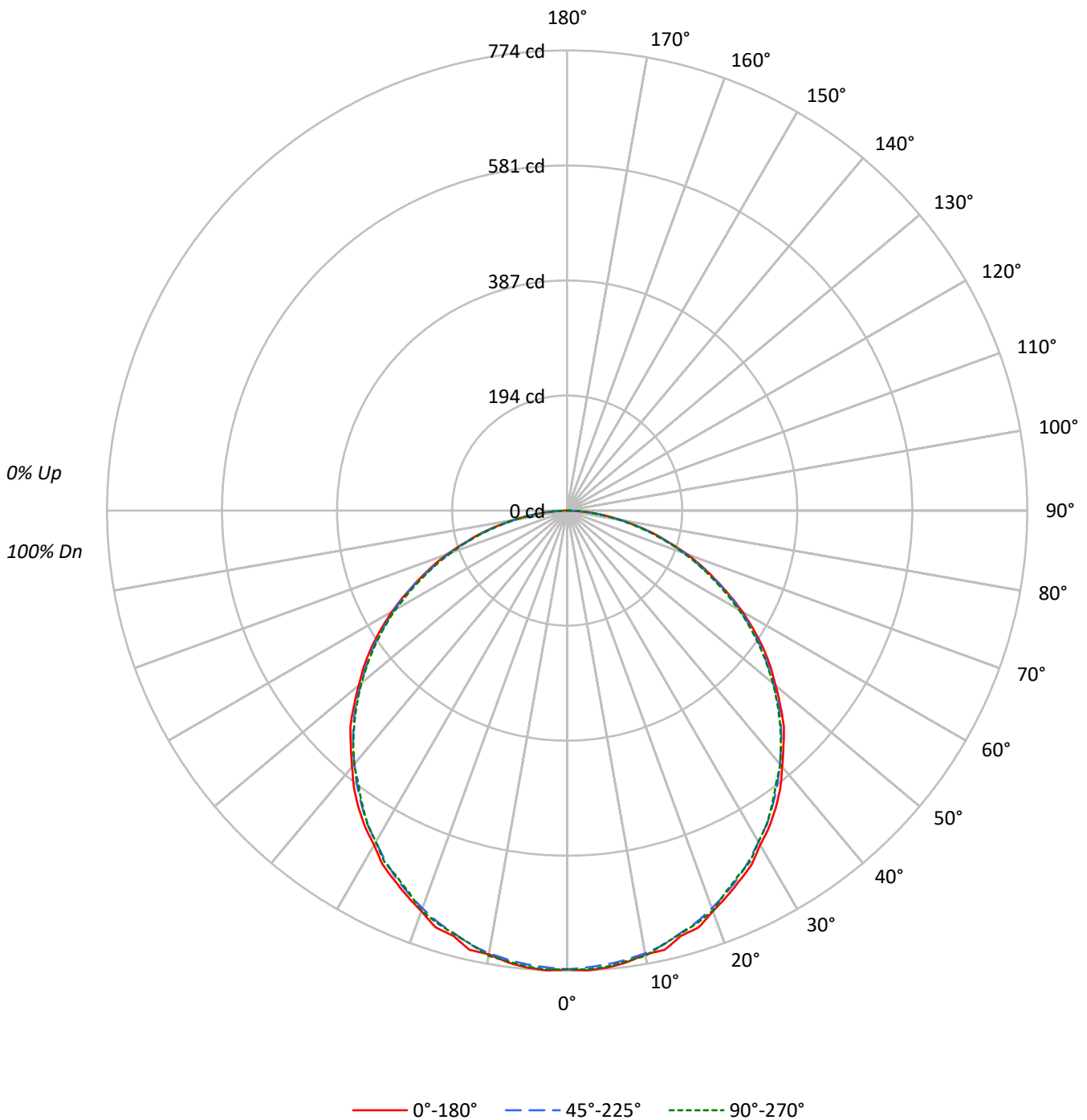
Lumens per Lamp: N/A  
Luminaire Lumens: 2194.5 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.9  
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: P298474

CATALOG NUMBER: 22FPX-21-L835-SWPD1

### 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°	2076	2076	2076
5°	2084	2070	2080
10°	2070	2066	2078
15°	2063	2050	2053
20°	2053	2038	2051
25°	2039	2023	2015
30°	2018	1999	1999
35°	2008	1982	1977
40°	1977	1955	1958
45°	1963	1933	1927
50°	1916	1894	1891
55°	1887	1863	1851
60°	1834	1810	1796
65°	1755	1739	1717
70°	1692	1664	1637
75°	1577	1550	1533
80°	1424	1398	1370
85°	1204	1176	1152



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.0	3.3
10°-20°	208.5	9.5
20°-30°	314.7	14.3
30°-40°	378.4	17.2
40°-50°	392.1	17.9
50°-60°	354.7	16.2
60°-70°	270.7	12.3
70°-80°	157.8	7.2
80°-90°	44.6	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°	596.2	27.2
0°-40°	974.6	44.4
0°-60°	1721.4	78.4
0°-90°	2194.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2194.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	772	769	766	766	770	73
15°	740	740	736	738	737	210
25°	687	687	681	681	679	317
35°	611	607	603	602	602	382
45°	516	510	508	505	506	396
55°	402	400	397	395	394	359
65°	276	276	273	272	270	274
75°	152	151	149	146	147	160
85°	39	41	38	39	37	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	771.6	771.6	771.6	771.6	771.6
2.5°	774.2	769.9	769.0	770.7	772.5
5°	771.6	769.0	766.4	766.4	769.9
7.5°	766.4	763.8	762.0	762.0	764.6
10°	757.7	755.1	756.0	756.0	760.3
12.5°	756.8	749.0	748.2	749.0	747.3
15°	740.4	739.5	736.0	737.8	736.9
17.5°	735.2	730.0	725.6	726.5	727.4
20°	717.0	715.2	711.8	712.6	716.1
22.5°	702.2	703.1	697.0	697.0	695.3
25°	686.6	686.6	681.4	681.4	678.8
27.5°	671.9	667.6	663.2	664.1	665.8
30°	649.3	647.6	643.3	644.1	643.3
32.5°	632.0	631.1	625.1	623.3	625.1
35°	611.2	606.9	603.4	602.5	601.7
37.5°	588.7	585.2	580.9	580.0	577.4
40°	562.7	561.8	556.6	557.4	557.4
42.5°	538.4	535.8	533.2	531.4	532.3
45°	515.8	509.8	508.0	505.4	506.3
47.5°	486.4	483.8	482.0	478.6	479.4
50°	457.7	457.7	452.5	451.7	451.7
52.5°	430.9	429.1	424.8	425.7	423.1
55°	402.3	399.7	397.1	395.3	394.5
57.5°	371.1	368.5	366.7	364.1	364.1
60°	340.7	337.2	336.4	332.9	333.8
62.5°	307.8	306.9	306.0	303.4	300.8
65°	275.7	275.7	273.1	272.2	269.6
67.5°	245.3	243.6	241.0	241.0	239.3
70°	215.0	212.4	211.5	208.9	208.1
72.5°	181.2	181.2	178.6	177.7	177.7
75°	151.7	150.8	149.1	146.5	147.4
77.5°	121.4	120.5	119.6	117.9	117.0
80°	91.9	91.9	90.2	91.0	88.4
82.5°	64.2	65.0	63.3	63.3	61.6
85°	39.0	40.7	38.1	39.0	37.3
87.5°	16.5	16.5	15.6	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)