

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: P298571

Luminaire Tested: **22FPX-21-L840-L5-SWPD1**

Issue Date: 3/3/2020



**Test Information**

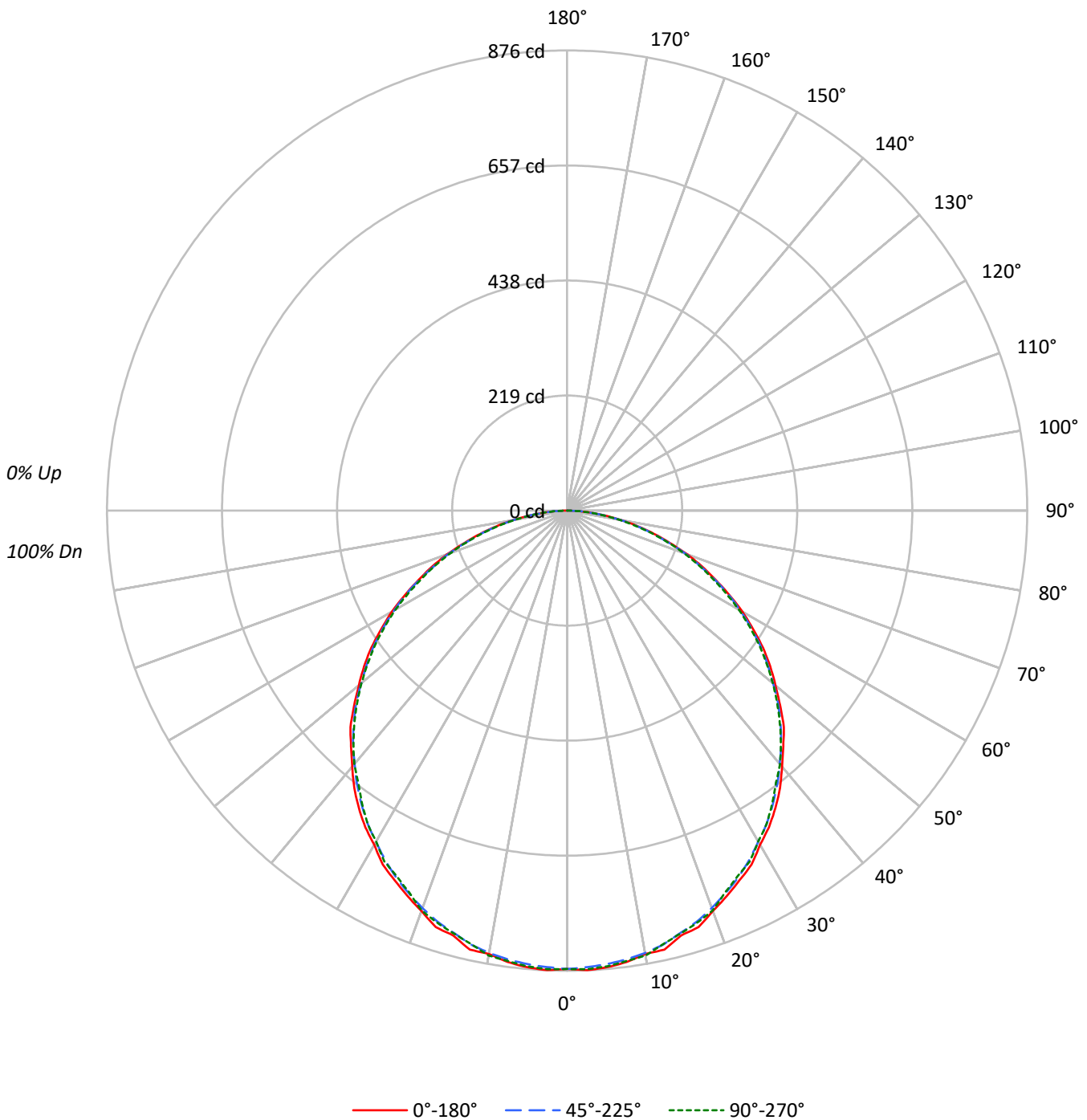
Test Method: LM-79-08  
Report Number: P298571  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-179-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22FPX-21-L840-L5-SWPD1  
Description: 2x2 FPX SERIES LED PANEL, 4000K CCT AND 80CRI  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2482.2 lumens  
Efficiency: N/A  
Efficacy: 111.1 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): 22.3464080011087  
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	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°	2348	2348	2348
5°	2357	2341	2352
10°	2342	2337	2350
15°	2333	2319	2322
20°	2322	2306	2320
25°	2306	2288	2280
30°	2282	2261	2261
35°	2271	2242	2235
40°	2236	2211	2215
45°	2220	2187	2179
50°	2167	2143	2139
55°	2135	2107	2093
60°	2074	2048	2032
65°	1985	1967	1942
70°	1913	1883	1851
75°	1784	1754	1733
80°	1610	1581	1550
85°	1362	1331	1303



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.5	3.3
10°-20°	235.9	9.5
20°-30°	356.0	14.3
30°-40°	428.0	17.2
40°-50°	443.5	17.9
50°-60°	401.2	16.2
60°-70°	306.2	12.3
70°-80°	178.5	7.2
80°-90°	50.4	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°	674.3	27.2
0°-40°	1102.3	44.4
0°-60°	1947.0	78.4
0°-90°	2482.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2482.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	873	870	867	867	871	83
15°	837	836	832	834	834	237
25°	777	777	771	771	768	358
35°	691	686	682	682	680	432
45°	583	577	575	572	573	448
55°	455	452	449	447	446	406
65°	312	312	309	308	305	310
75°	172	171	169	166	167	181
85°	44	46	43	44	42	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	872.7	872.7	872.7	872.7	872.7
2.5°	875.7	870.8	869.8	871.7	873.7
5°	872.7	869.8	866.8	866.8	870.8
7.5°	866.8	863.9	861.9	861.9	864.9
10°	857.0	854.1	855.1	855.1	860.0
12.5°	856.0	847.2	846.2	847.2	845.3
15°	837.4	836.4	832.5	834.5	833.5
17.5°	831.5	825.6	820.7	821.7	822.7
20°	810.9	809.0	805.1	806.0	810.0
22.5°	794.3	795.2	788.4	788.4	786.4
25°	776.6	776.6	770.7	770.7	767.8
27.5°	759.9	755.0	750.1	751.1	753.1
30°	734.5	732.5	727.6	728.6	727.6
32.5°	714.8	713.9	707.0	705.0	707.0
35°	691.3	686.4	682.5	681.5	680.5
37.5°	665.8	661.9	657.0	656.0	653.1
40°	636.4	635.4	629.5	630.5	630.5
42.5°	608.9	606.0	603.1	601.1	602.1
45°	583.4	576.6	574.6	571.7	572.7
47.5°	550.1	547.2	545.2	541.3	542.3
50°	517.7	517.7	511.9	510.9	510.9
52.5°	487.3	485.4	480.5	481.5	478.5
55°	455.0	452.0	449.1	447.1	446.2
57.5°	419.7	416.7	414.8	411.8	411.8
60°	385.4	381.4	380.5	376.5	377.5
62.5°	348.1	347.1	346.1	343.2	340.3
65°	311.8	311.8	308.9	307.9	305.0
67.5°	277.5	275.5	272.6	272.6	270.6
70°	243.2	240.2	239.3	236.3	235.3
72.5°	204.9	204.9	202.0	201.0	201.0
75°	171.6	170.6	168.7	165.7	166.7
77.5°	137.3	136.3	135.3	133.4	132.4
80°	103.9	103.9	102.0	103.0	100.0
82.5°	72.6	73.5	71.6	71.6	69.6
85°	44.1	46.1	43.1	44.1	42.2
87.5°	18.6	18.6	17.7	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)