

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: P298542

Luminaire Tested: **22FPX-42-L835-5LTHD-SWPD1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P298542  
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-42-L835-5LTHD-SWPD1  
Description: 2x2 FPX SERIES LED PANEL, 3500K CCT AND 80CRI  
Light Source: -  
Ballast/Driver: -

**Summary**

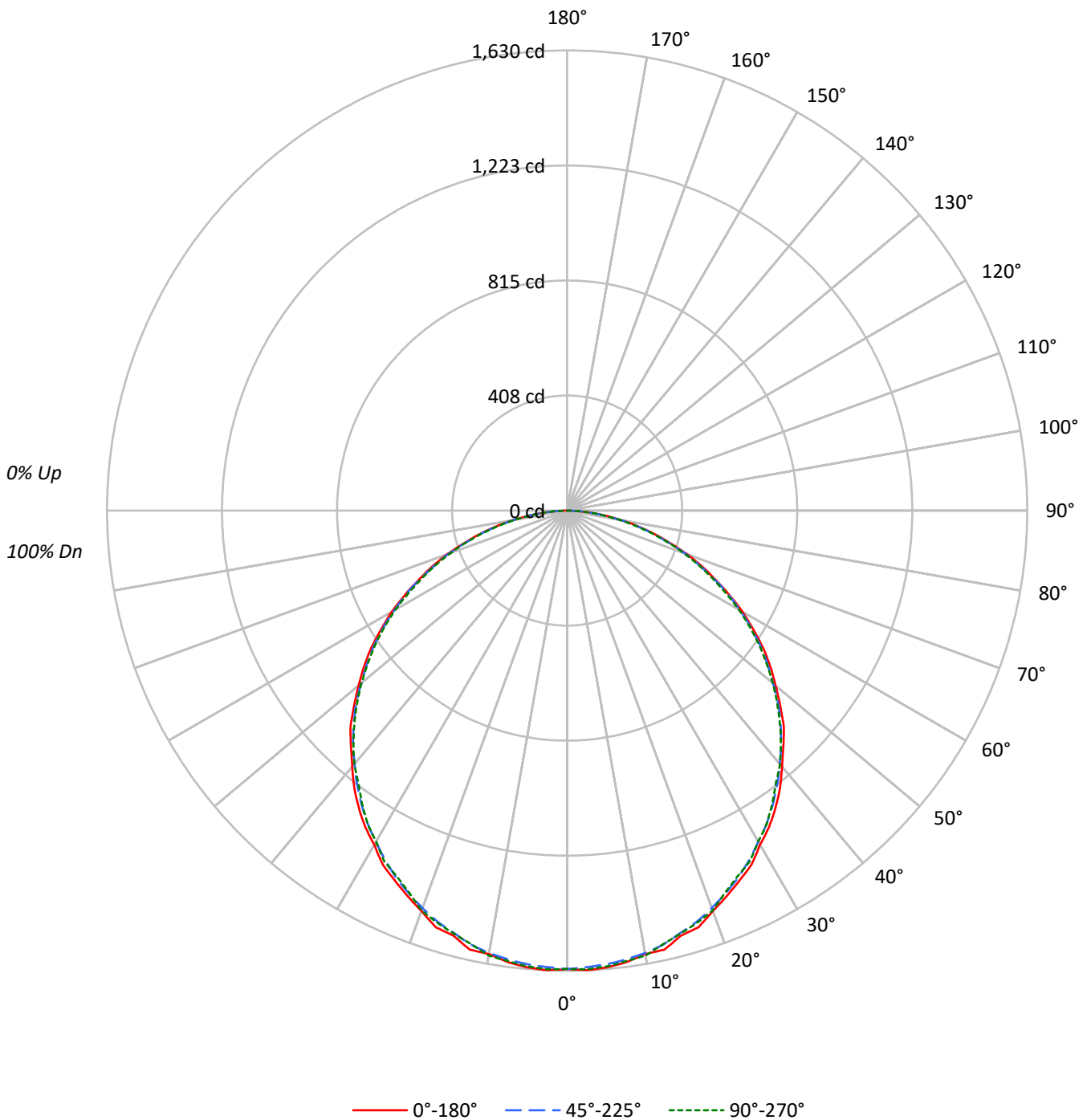
Lumens per Lamp: N/A  
Luminaire Lumens: 4619.0 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 40.7719092298676  
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°	4370	4370	4370
5°	4387	4357	4377
10°	4358	4348	4373
15°	4341	4316	4321
20°	4321	4290	4316
25°	4291	4258	4242
30°	4247	4207	4207
35°	4226	4172	4160
40°	4160	4115	4122
45°	4132	4069	4055
50°	4034	3988	3980
55°	3972	3921	3895
60°	3859	3810	3781
65°	3695	3660	3613
70°	3560	3503	3445
75°	3320	3264	3225
80°	2997	2941	2884
85°	2535	2479	2424



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.5	3.3
10°-20°	438.9	9.5
20°-30°	662.4	14.3
30°-40°	796.4	17.2
40°-50°	825.3	17.9
50°-60°	746.6	16.2
60°-70°	569.8	12.3
70°-80°	332.2	7.2
80°-90°	93.9	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°	1254.8	27.2
0°-40°	2051.3	44.4
0°-60°	3623.1	78.4
0°-90°	4619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4619.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1624	1624	1624	1624	1624	
5°	1624	1618	1613	1613	1620	154
15°	1558	1556	1549	1553	1551	442
25°	1445	1445	1434	1434	1429	666
35°	1286	1277	1270	1268	1266	804
45°	1086	1073	1069	1064	1066	833
55°	847	841	836	832	830	755
65°	580	580	575	573	568	576
75°	319	318	314	308	310	337
85°	82	86	80	82	78	95
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1624.0	1624.0	1624.0	1624.0	1624.0
2.5°	1629.5	1620.4	1618.5	1622.2	1625.8
5°	1624.0	1618.5	1613.1	1613.1	1620.4
7.5°	1613.1	1607.6	1603.9	1603.9	1609.4
10°	1594.8	1589.3	1591.2	1591.2	1600.3
12.5°	1593.0	1576.6	1574.7	1576.6	1572.9
15°	1558.3	1556.5	1549.2	1552.8	1551.0
17.5°	1547.4	1536.4	1527.3	1529.1	1530.9
20°	1509.0	1505.4	1498.1	1499.9	1507.2
22.5°	1478.0	1479.8	1467.1	1467.1	1463.4
25°	1445.2	1445.2	1434.2	1434.2	1428.8
27.5°	1414.2	1405.0	1395.9	1397.7	1401.4
30°	1366.7	1363.1	1353.9	1355.8	1353.9
32.5°	1330.2	1328.4	1315.6	1312.0	1315.6
35°	1286.4	1277.3	1270.0	1268.2	1266.4
37.5°	1239.0	1231.7	1222.6	1220.7	1215.3
40°	1184.2	1182.4	1171.5	1173.3	1173.3
42.5°	1133.2	1127.7	1122.2	1118.6	1120.4
45°	1085.7	1072.9	1069.3	1063.8	1065.6
47.5°	1023.7	1018.2	1014.5	1007.2	1009.1
50°	963.5	963.5	952.5	950.7	950.7
52.5°	906.9	903.2	894.1	895.9	890.5
55°	846.7	841.2	835.7	832.1	830.2
57.5°	781.0	775.5	771.9	766.4	766.4
60°	717.1	709.8	708.0	700.7	702.5
62.5°	647.8	646.0	644.1	638.7	633.2
65°	580.3	580.3	574.8	573.0	567.5
67.5°	516.4	512.7	507.3	507.3	503.6
70°	452.5	447.1	445.2	439.8	437.9
72.5°	381.4	381.4	375.9	374.1	374.1
75°	319.3	317.5	313.9	308.4	310.2
77.5°	255.5	253.6	251.8	248.2	246.3
80°	193.4	193.4	189.8	191.6	186.1
82.5°	135.0	136.9	133.2	133.2	129.6
85°	82.1	85.8	80.3	82.1	78.5
87.5°	34.7	34.7	32.8	32.8	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)