

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: P298659

Luminaire Tested: **14FPX-42-L850-SD-SWPD1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P298659  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-179-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14FPX-42-L850-SD-SWPD1  
Description: 1x4 FPX SERIES LED PANEL, 5000K CCT AND 80CRI  
Light Source: -  
Ballast/Driver: -

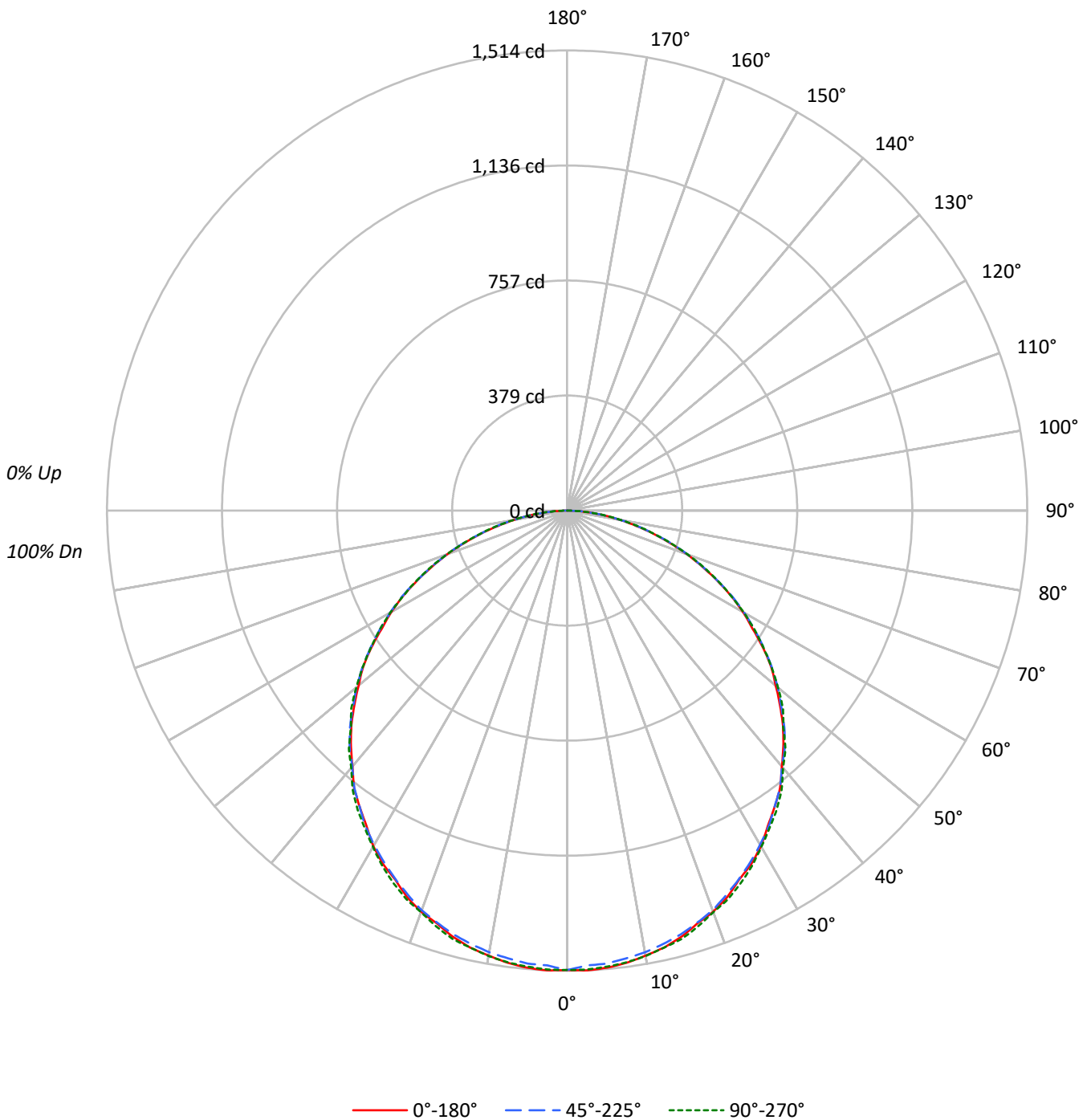
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4346.7 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 41.0697590027511  
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	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	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°	4067	4067	4067
5°	4078	4041	4068
10°	4063	4031	4066
15°	4045	4022	4065
20°	4023	4007	4028
25°	3977	3972	4015
30°	3962	3945	3971
35°	3909	3909	3948
40°	3859	3862	3881
45°	3822	3846	3826
50°	3750	3784	3792
55°	3692	3709	3705
60°	3597	3622	3617
65°	3466	3477	3489
70°	3299	3306	3313
75°	3051	3079	3089
80°	2737	2779	2793
85°	2238	2350	2405



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.8	3.3
10°-20°	409.0	9.4
20°-30°	619.7	14.3
30°-40°	747.6	17.2
40°-50°	778.7	17.9
50°-60°	706.4	16.3
60°-70°	540.7	12.4
70°-80°	313.9	7.2
80°-90°	87.9	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°	1171.5	27.0
0°-40°	1919.1	44.2
0°-60°	3404.2	78.3
0°-90°	4346.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4346.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1510	1504	1496	1504	1506	143
15°	1452	1448	1444	1452	1459	409
25°	1340	1343	1338	1348	1352	619
35°	1190	1194	1190	1197	1202	745
45°	1004	1012	1011	1015	1005	773
55°	787	792	791	792	790	702
65°	544	546	546	547	548	539
75°	293	294	296	299	297	311
85°	72	73	76	78	78	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1511.5	1511.5	1511.5	1511.5	1511.5
2.5°	1514.3	1506.1	1498.0	1510.6	1511.5
5°	1509.7	1504.3	1496.1	1504.3	1506.1
7.5°	1500.7	1493.4	1486.2	1499.8	1498.9
10°	1487.1	1484.4	1475.3	1485.3	1488.0
12.5°	1472.6	1468.1	1460.8	1468.1	1472.6
15°	1451.8	1448.1	1443.6	1451.8	1459.0
17.5°	1424.6	1426.4	1421.9	1430.9	1433.7
20°	1404.7	1402.0	1399.2	1406.5	1406.5
22.5°	1376.6	1379.3	1368.4	1381.1	1383.8
25°	1339.5	1343.1	1337.7	1348.5	1352.1
27.5°	1311.4	1311.4	1305.0	1313.2	1317.7
30°	1275.2	1274.3	1269.7	1275.2	1277.9
32.5°	1229.0	1238.9	1233.5	1241.7	1238.9
35°	1190.0	1193.7	1190.0	1197.3	1201.8
37.5°	1151.1	1152.9	1150.2	1154.7	1159.2
40°	1098.6	1104.9	1099.5	1107.6	1104.9
42.5°	1053.3	1059.6	1059.6	1061.4	1063.2
45°	1004.4	1011.6	1010.7	1015.2	1005.3
47.5°	950.0	960.0	955.5	964.5	963.6
50°	895.7	906.6	903.8	902.0	905.7
52.5°	846.8	850.4	849.5	849.5	848.6
55°	787.0	791.5	790.6	792.4	789.7
57.5°	723.6	732.7	731.8	731.8	731.8
60°	668.4	672.0	672.9	672.0	672.0
62.5°	608.6	610.4	612.2	607.7	607.7
65°	544.3	546.1	546.1	547.0	547.9
67.5°	480.0	485.4	482.7	482.7	485.4
70°	419.3	420.2	420.2	420.2	421.1
72.5°	354.1	355.9	359.5	360.5	357.7
75°	293.4	294.3	296.1	298.9	297.1
77.5°	232.8	234.6	237.3	238.2	239.1
80°	176.6	178.4	179.3	182.0	180.2
82.5°	125.0	125.9	125.9	127.7	128.6
85°	72.5	73.4	76.1	77.9	77.9
87.5°	30.8	31.7	30.8	30.8	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)