

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: P298719

Luminaire Tested: **24FPX-47-L830-SR-LWIPD1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P298719  
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-47-L830-SR-LWIPD1  
Description: 2x4 FPX SERIES LED PANEL, 3000K CCT AND 80CRI  
Light Source: -  
Ballast/Driver: -

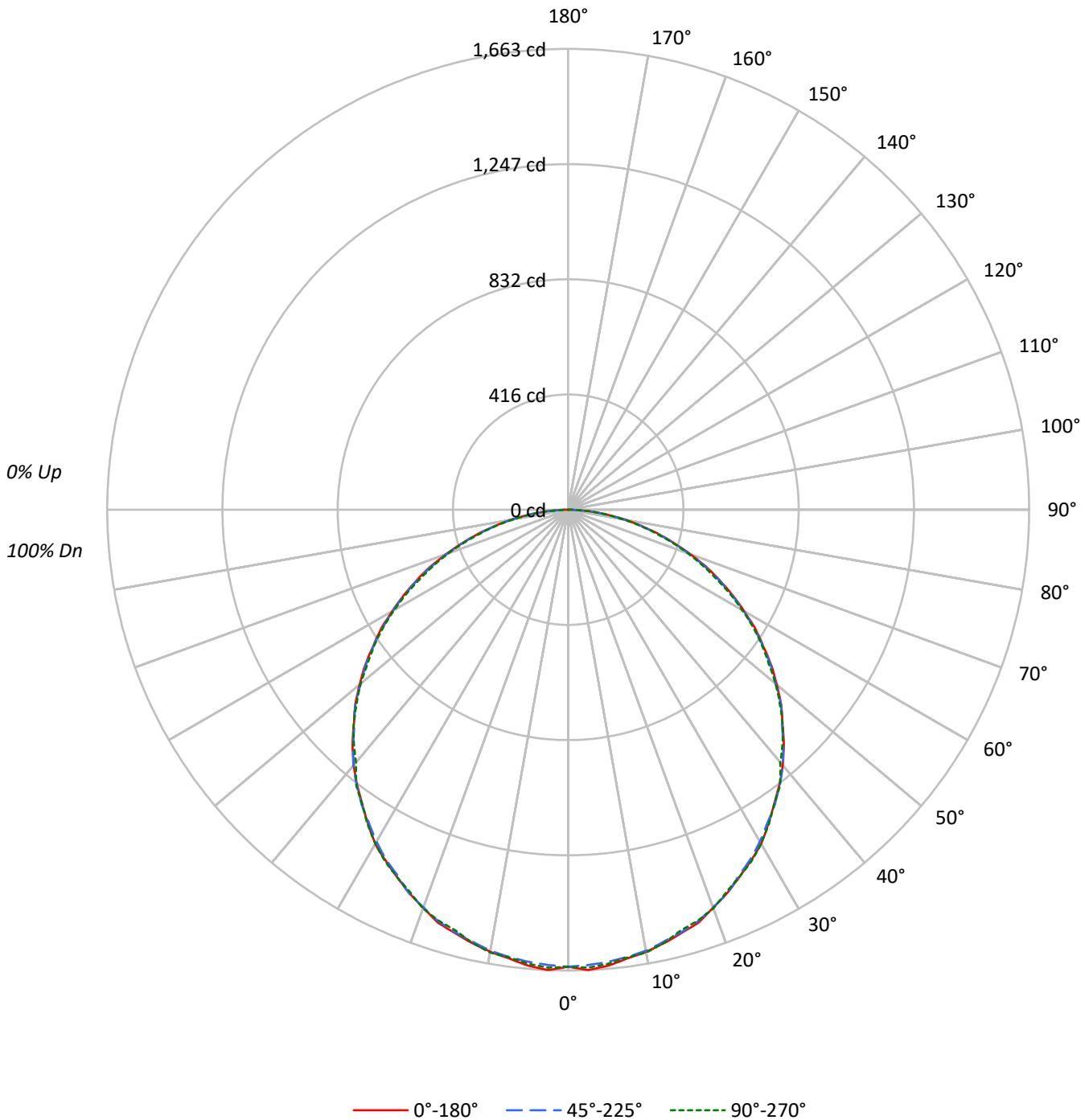
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4742.1 lumens  
Efficiency: N/A  
Efficacy: 107.3 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): 44.1995382352707  
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	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°	2219	2219	2219
5°	2231	2212	2221
10°	2213	2207	2217
15°	2202	2198	2189
20°	2188	2186	2192
25°	2170	2162	2170
30°	2164	2149	2161
35°	2128	2135	2128
40°	2115	2117	2091
45°	2080	2075	2083
50°	2056	2045	2045
55°	2015	2012	2002
60°	1972	1965	1950
65°	1919	1910	1875
70°	1842	1826	1804
75°	1750	1722	1693
80°	1632	1578	1557
85°	1433	1369	1348



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.8	3.3
10°-20°	445.1	9.4
20°-30°	674.1	14.2
30°-40°	812.2	17.1
40°-50°	844.5	17.8
50°-60°	766.4	16.2
60°-70°	591.7	12.5
70°-80°	350.5	7.4
80°-90°	101.8	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°	1274.9	26.9
0°-40°	2087.2	44.0
0°-60°	3698.2	78.0
0°-90°	4742.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4742.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1649	1649	1649	1649	1649	
5°	1652	1643	1638	1634	1645	156
15°	1581	1574	1578	1576	1571	447
25°	1462	1463	1456	1458	1462	675
35°	1296	1297	1300	1298	1296	813
45°	1093	1096	1090	1093	1095	846
55°	859	862	858	856	854	770
65°	603	603	600	594	589	597
75°	337	334	331	328	326	355
85°	93	89	89	87	87	105
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1648.9	1648.9	1648.9	1648.9	1648.9
2.5°	1662.8	1642.0	1644.7	1639.2	1654.4
5°	1651.7	1643.4	1637.8	1633.7	1644.7
7.5°	1633.7	1626.7	1628.1	1626.7	1629.5
10°	1619.8	1619.8	1615.6	1611.5	1622.6
12.5°	1601.8	1601.8	1596.2	1592.1	1600.4
15°	1581.0	1574.1	1578.2	1575.5	1571.3
17.5°	1563.0	1554.7	1557.5	1545.0	1554.7
20°	1528.4	1525.6	1527.0	1520.0	1531.1
22.5°	1497.9	1502.0	1499.3	1496.5	1492.3
25°	1461.8	1463.2	1456.3	1457.7	1461.8
27.5°	1427.2	1431.4	1423.0	1423.0	1431.4
30°	1392.6	1387.0	1382.9	1391.2	1391.2
32.5°	1344.1	1338.5	1338.5	1342.7	1346.8
35°	1295.6	1297.0	1299.7	1298.3	1295.6
37.5°	1251.2	1248.5	1252.6	1252.6	1255.4
40°	1204.1	1206.9	1205.5	1200.0	1190.3
42.5°	1151.5	1154.2	1147.3	1154.2	1144.5
45°	1093.3	1096.0	1090.5	1093.3	1094.6
47.5°	1042.0	1039.2	1042.0	1037.8	1035.1
50°	982.4	981.0	976.9	976.9	976.9
52.5°	924.2	920.1	920.1	920.1	911.7
55°	859.1	861.9	857.7	856.3	853.5
57.5°	800.9	795.4	794.0	794.0	792.6
60°	733.0	731.6	730.2	727.5	724.7
62.5°	669.3	663.7	665.1	662.3	658.2
65°	602.8	602.8	600.0	594.4	588.9
67.5°	539.0	536.2	532.1	529.3	523.8
70°	468.3	467.0	464.2	461.4	458.6
72.5°	400.4	399.1	397.7	394.9	392.1
75°	336.7	333.9	331.2	328.4	325.6
77.5°	270.2	268.8	267.4	263.3	263.3
80°	210.6	206.5	203.7	202.3	200.9
82.5°	148.3	148.3	145.5	144.1	144.1
85°	92.8	88.7	88.7	87.3	87.3
87.5°	40.2	38.8	36.0	36.0	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)