

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: P298744

Luminaire Tested: **24FPX-47-L835-5LTHD-SWPD1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P298744  
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-L835-5LTHD-SWPD1  
Description: 2x4 FPX SERIES LED PANEL, 3500K CCT AND 80CRI  
Light Source: -  
Ballast/Driver: -

**Summary**

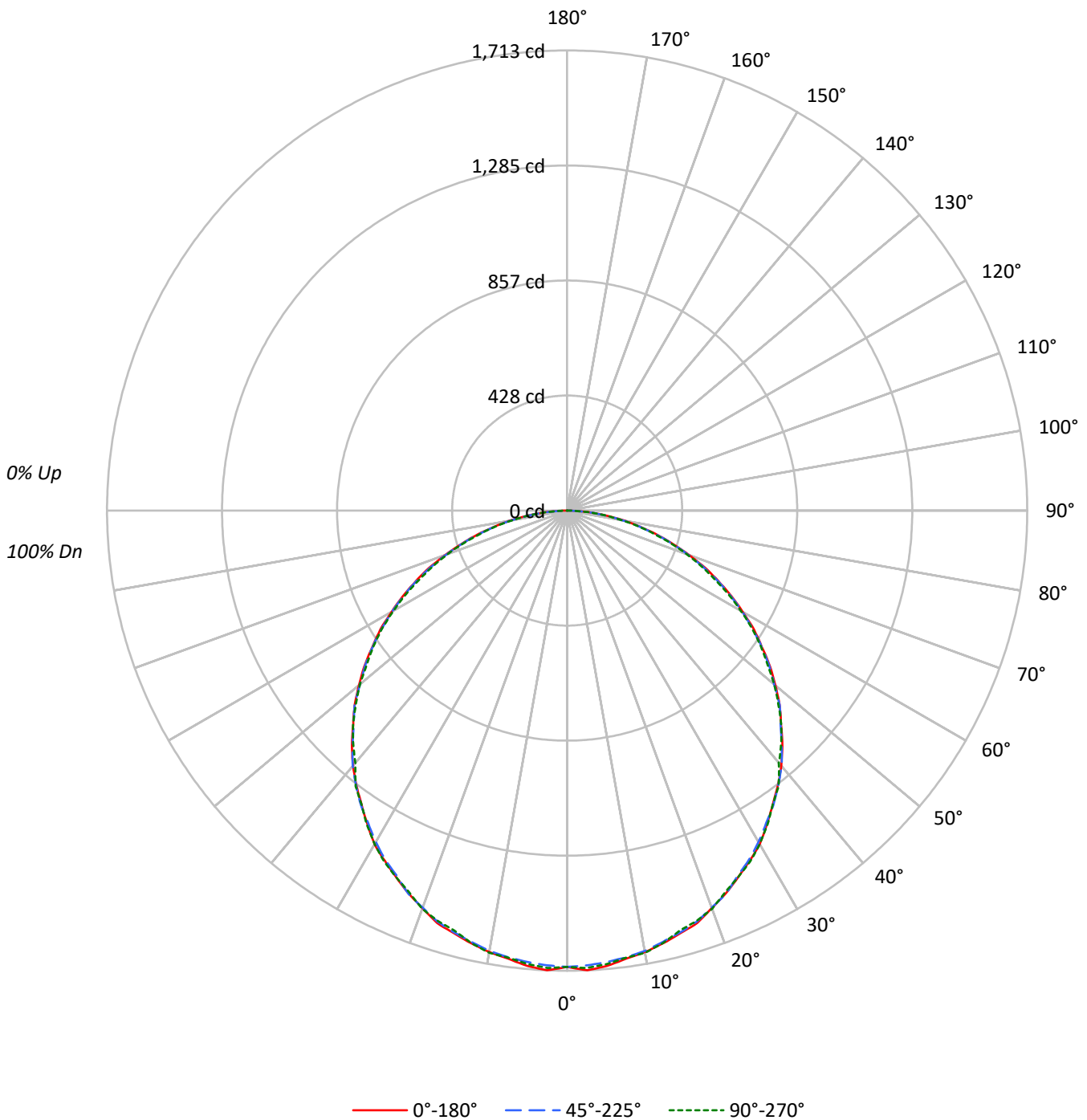
Lumens per Lamp: N/A  
Luminaire Lumens: 4885.0 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.1455843548191  
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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2285	2285	2285
5°	2298	2279	2288
10°	2280	2274	2284
15°	2269	2265	2255
20°	2254	2252	2258
25°	2236	2227	2236
30°	2229	2213	2227
35°	2192	2199	2192
40°	2179	2181	2154
45°	2143	2138	2146
50°	2118	2106	2106
55°	2076	2073	2063
60°	2032	2024	2009
65°	1977	1968	1931
70°	1898	1881	1859
75°	1803	1773	1744
80°	1681	1626	1604
85°	1476	1411	1388



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.5	3.3
10°-20°	458.5	9.4
20°-30°	694.4	14.2
30°-40°	836.7	17.1
40°-50°	870.0	17.8
50°-60°	789.5	16.2
60°-70°	609.5	12.5
70°-80°	361.0	7.4
80°-90°	104.9	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°	1313.4	26.9
0°-40°	2150.1	44.0
0°-60°	3809.6	78.0
0°-90°	4885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4885.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1699	1699	1699	1699	1699	
5°	1702	1693	1687	1683	1694	161
15°	1629	1622	1626	1623	1619	460
25°	1506	1507	1500	1502	1506	695
35°	1335	1336	1339	1338	1335	837
45°	1126	1129	1123	1126	1128	871
55°	885	888	884	882	879	793
65°	621	621	618	612	607	615
75°	347	344	341	338	335	366
85°	96	91	91	90	90	108
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1698.6	1698.6	1698.6	1698.6	1698.6
2.5°	1712.9	1691.5	1694.3	1688.6	1704.3
5°	1701.5	1692.9	1687.2	1682.9	1694.3
7.5°	1682.9	1675.8	1677.2	1675.8	1678.6
10°	1668.6	1668.6	1664.3	1660.1	1671.5
12.5°	1650.1	1650.1	1644.4	1640.1	1648.6
15°	1628.7	1621.5	1625.8	1622.9	1618.7
17.5°	1610.1	1601.5	1604.4	1591.5	1601.5
20°	1574.4	1571.6	1573.0	1565.9	1577.3
22.5°	1543.0	1547.3	1544.4	1541.6	1537.3
25°	1505.9	1507.3	1500.2	1501.6	1505.9
27.5°	1470.2	1474.5	1465.9	1465.9	1474.5
30°	1434.5	1428.8	1424.5	1433.1	1433.1
32.5°	1384.6	1378.9	1378.9	1383.1	1387.4
35°	1334.6	1336.0	1338.9	1337.5	1334.6
37.5°	1288.9	1286.1	1290.4	1290.4	1293.2
40°	1240.4	1243.3	1241.8	1236.1	1226.1
42.5°	1186.2	1189.0	1181.9	1189.0	1179.0
45°	1126.2	1129.1	1123.4	1126.2	1127.6
47.5°	1073.4	1070.5	1073.4	1069.1	1066.3
50°	1012.0	1010.6	1006.3	1006.3	1006.3
52.5°	952.1	947.8	947.8	947.8	939.2
55°	885.0	887.8	883.6	882.1	879.3
57.5°	825.0	819.3	817.9	817.9	816.5
60°	755.1	753.7	752.2	749.4	746.5
62.5°	689.4	683.7	685.1	682.3	678.0
65°	620.9	620.9	618.1	612.4	606.6
67.5°	555.3	552.4	548.1	545.3	539.6
70°	482.5	481.0	478.2	475.3	472.5
72.5°	412.5	411.1	409.7	406.8	404.0
75°	346.9	344.0	341.1	338.3	335.4
77.5°	278.3	276.9	275.5	271.2	271.2
80°	217.0	212.7	209.8	208.4	207.0
82.5°	152.7	152.7	149.9	148.4	148.4
85°	95.6	91.4	91.4	89.9	89.9
87.5°	41.4	40.0	37.1	37.1	37.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)