

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: P298686

Luminaire Tested: **24FPX-47-L850-SWPD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P298686
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-L850-SWPD1
Description: 2x4 FPX SERIES LED PANEL, 5000K CCT AND 80CRI
Light Source: -
Ballast/Driver: -

Summary

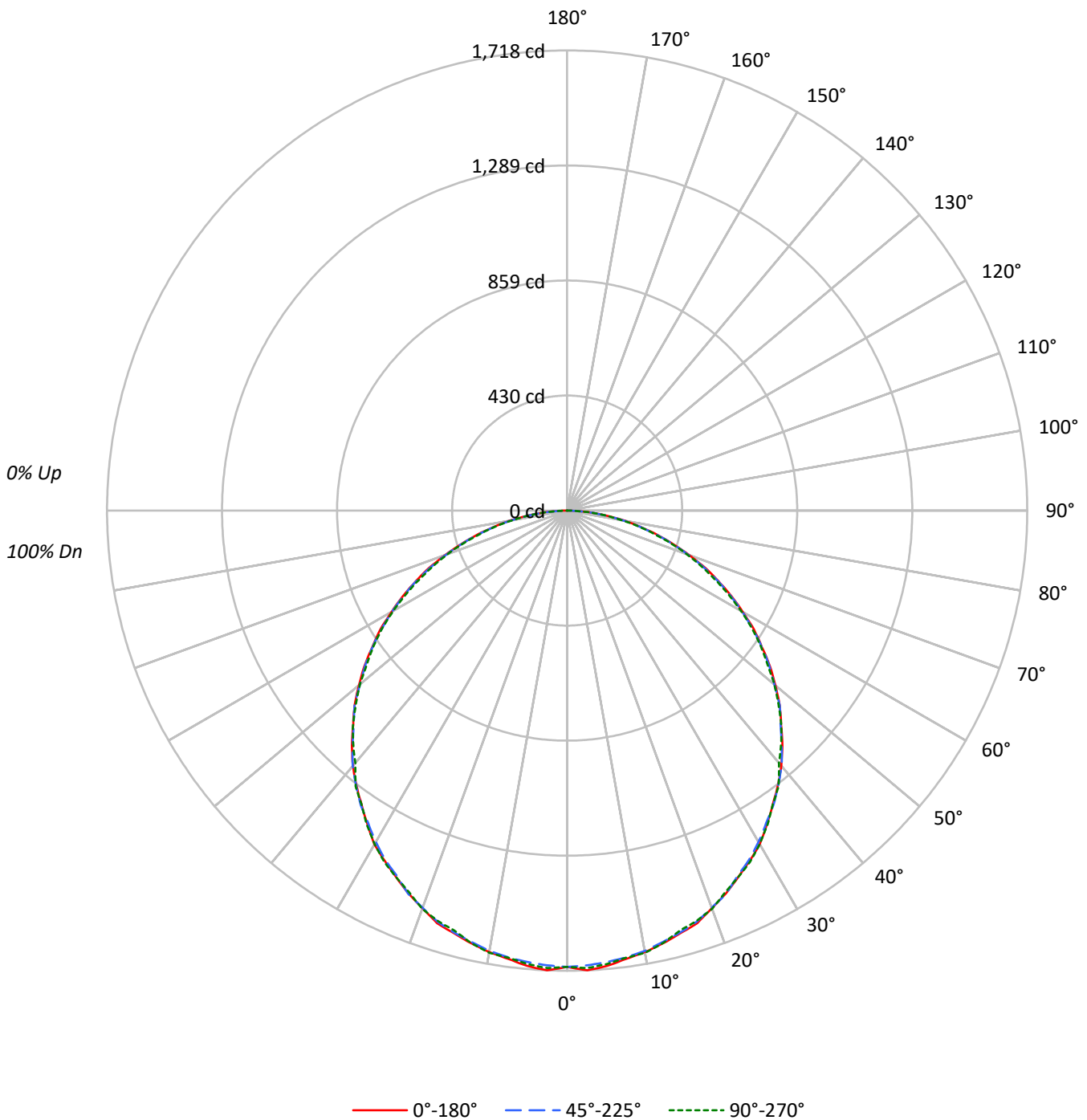
Lumens per Lamp: N/A
Luminaire Lumens: 4899.6 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 42
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°	2292	2292	2292
5°	2305	2286	2295
10°	2287	2281	2291
15°	2276	2271	2261
20°	2261	2259	2265
25°	2242	2234	2242
30°	2235	2220	2233
35°	2199	2206	2199
40°	2185	2188	2160
45°	2149	2144	2152
50°	2125	2113	2113
55°	2082	2079	2069
60°	2038	2030	2015
65°	1983	1974	1937
70°	1904	1887	1864
75°	1809	1779	1749
80°	1686	1631	1609
85°	1480	1414	1392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	3.3
10°-20°	459.9	9.4
20°-30°	696.5	14.2
30°-40°	839.2	17.1
40°-50°	872.6	17.8
50°-60°	791.9	16.2
60°-70°	611.3	12.5
70°-80°	362.1	7.4
80°-90°	105.2	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°	1317.3	26.9
0°-40°	2156.5	44.0
0°-60°	3821.0	78.0
0°-90°	4899.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4899.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1704	1704	1704	1704	1704	
5°	1707	1698	1692	1688	1699	162
15°	1634	1626	1631	1628	1624	461
25°	1510	1512	1505	1506	1510	697
35°	1339	1340	1343	1342	1339	840
45°	1130	1132	1127	1130	1131	874
55°	888	890	886	885	882	795
65°	623	623	620	614	608	617
75°	348	345	342	339	336	367
85°	96	92	92	90	90	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1703.7	1703.7	1703.7	1703.7	1703.7
2.5°	1718.0	1696.5	1699.4	1693.7	1709.4
5°	1706.6	1698.0	1692.3	1688.0	1699.4
7.5°	1688.0	1680.8	1682.2	1680.8	1683.7
10°	1673.6	1673.6	1669.3	1665.1	1676.5
12.5°	1655.0	1655.0	1649.3	1645.0	1653.6
15°	1633.6	1626.4	1630.7	1627.8	1623.5
17.5°	1614.9	1606.4	1609.2	1596.3	1606.4
20°	1579.2	1576.3	1577.7	1570.6	1582.0
22.5°	1547.7	1551.9	1549.1	1546.2	1541.9
25°	1510.4	1511.9	1504.7	1506.1	1510.4
27.5°	1474.6	1478.9	1470.3	1470.3	1478.9
30°	1438.8	1433.1	1428.8	1437.4	1437.4
32.5°	1388.7	1383.0	1383.0	1387.3	1391.6
35°	1338.6	1340.1	1342.9	1341.5	1338.6
37.5°	1292.8	1289.9	1294.2	1294.2	1297.1
40°	1244.1	1247.0	1245.6	1239.8	1229.8
42.5°	1189.7	1192.6	1185.4	1192.6	1182.6
45°	1129.6	1132.5	1126.7	1129.6	1131.0
47.5°	1076.6	1073.8	1076.6	1072.3	1069.5
50°	1015.1	1013.6	1009.3	1009.3	1009.3
52.5°	954.9	950.6	950.6	950.6	942.0
55°	887.6	890.5	886.2	884.8	881.9
57.5°	827.5	821.8	820.4	820.4	818.9
60°	757.4	755.9	754.5	751.6	748.8
62.5°	691.5	685.8	687.2	684.3	680.1
65°	622.8	622.8	619.9	614.2	608.5
67.5°	556.9	554.1	549.8	546.9	541.2
70°	483.9	482.5	479.6	476.8	473.9
72.5°	413.8	412.3	410.9	408.0	405.2
75°	347.9	345.0	342.2	339.3	336.4
77.5°	279.2	277.7	276.3	272.0	272.0
80°	217.6	213.3	210.5	209.0	207.6
82.5°	153.2	153.2	150.3	148.9	148.9
85°	95.9	91.6	91.6	90.2	90.2
87.5°	41.5	40.1	37.2	37.2	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)