

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: P298755

Luminaire Tested: **24FPX-47-L850-LV1-SWPD1**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
Report Number: P298755  
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-LV1-SWPD1  
Description: 2x4 FPX SERIES LED PANEL, 5000K CCT AND 80CRI  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment:	<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
	AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
	AS-5443-2	Good	REFLECTOR
	AS-5443-3	Good	DRIVER
	AS-5443-4	Good	UPPER MODULE
	AS-5443-5	Good	LENS
	AS-5443-6	Good	DRIVER 2
	AS-5443-7	Good	TRIM RING

**Summary**

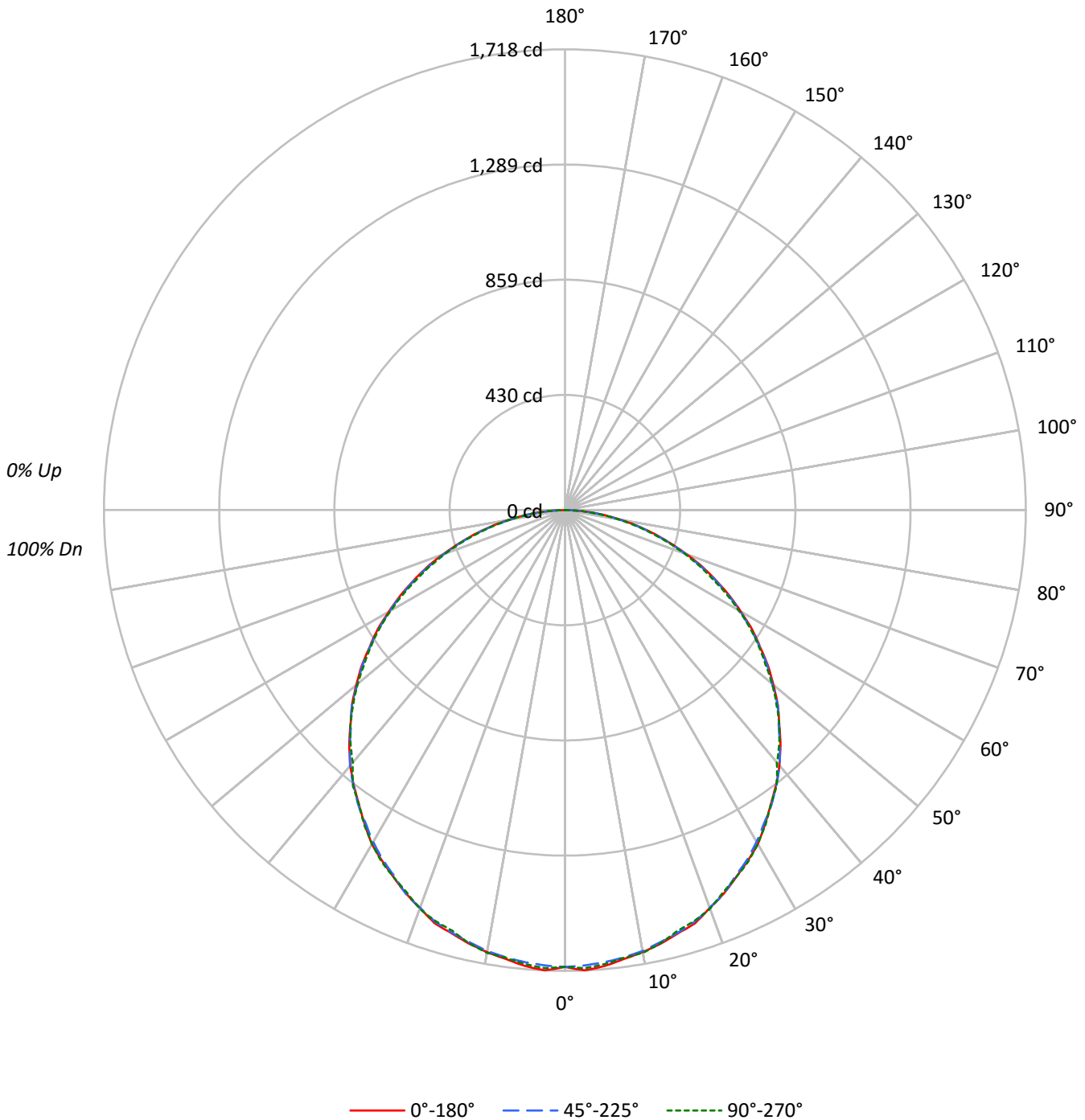
Lumens per Lamp: N/A  
Luminaire Lumens: 4899.6 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.33  
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



TEST NUMBER: P298755  
CATALOG NUMBER: 24FPX-47-L850-LV1-SWPD1

### Luminous Intensity Polar Plot





TEST NUMBER: P298755

CATALOG NUMBER: 24FPX-47-L850-LV1-SWPD1

**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



TEST NUMBER: P298755  
 CATALOG NUMBER: 24FPX-47-L850-LV1-SWPD1

**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	



TEST NUMBER: P298755

CATALOG NUMBER: 24FPX-47-L850-LV1-SWPD1

**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)