

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: P298753

Luminaire Tested: **24FPX-47-L835-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: P298753
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-LV1-SWPD1
Description: 2x4 FPX SERIES LED PANEL, 3500K 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

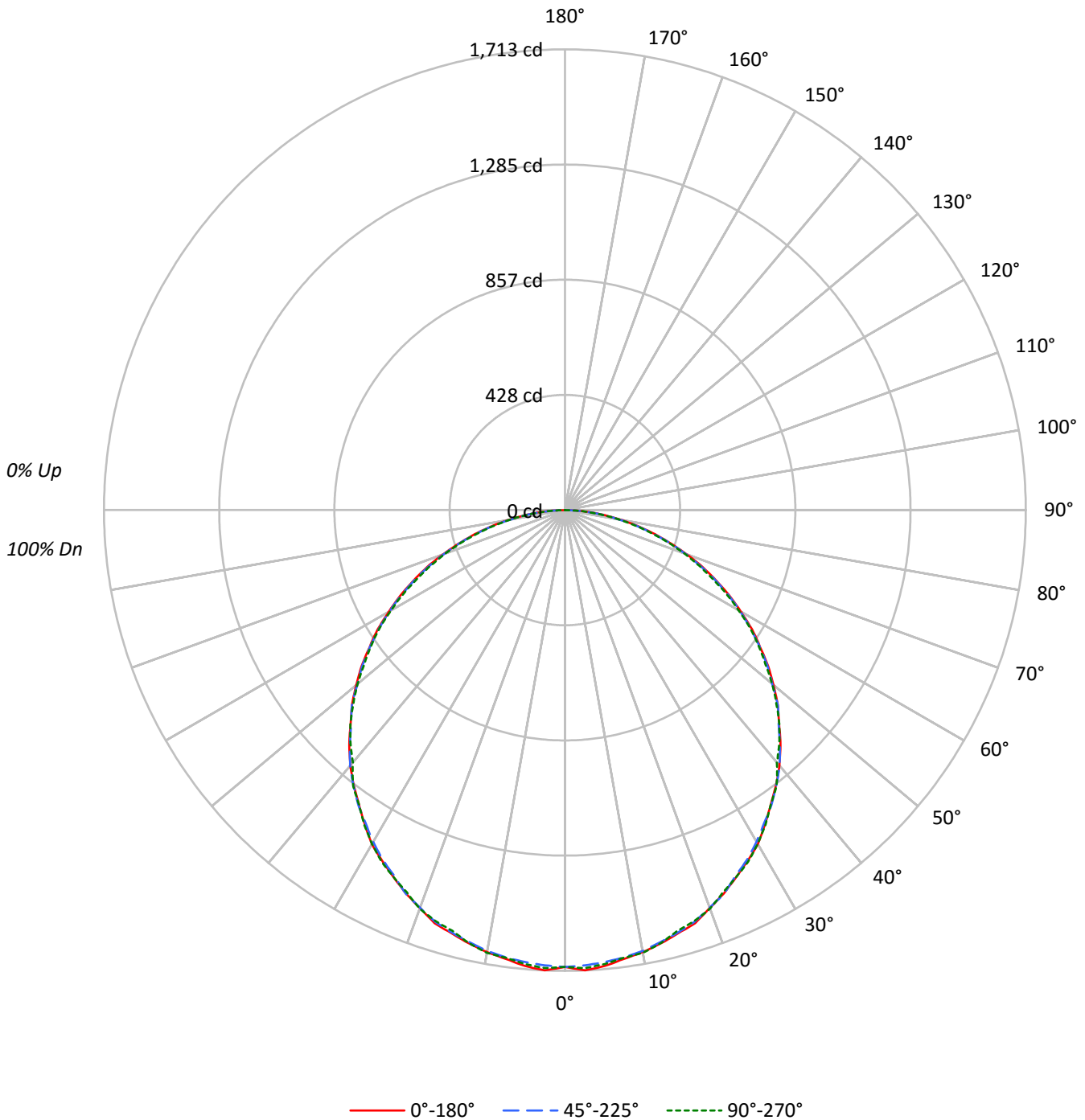
Lumens per Lamp: N/A
Luminaire Lumens: 4885.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.12
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	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)