

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: P298751

Luminaire Tested: **24FPX-38-L840-HE-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: P298751
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-38-L840-HE-LV1-SWPD1
Description: 2x4 FPX SERIES LED PANEL, 4000K 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

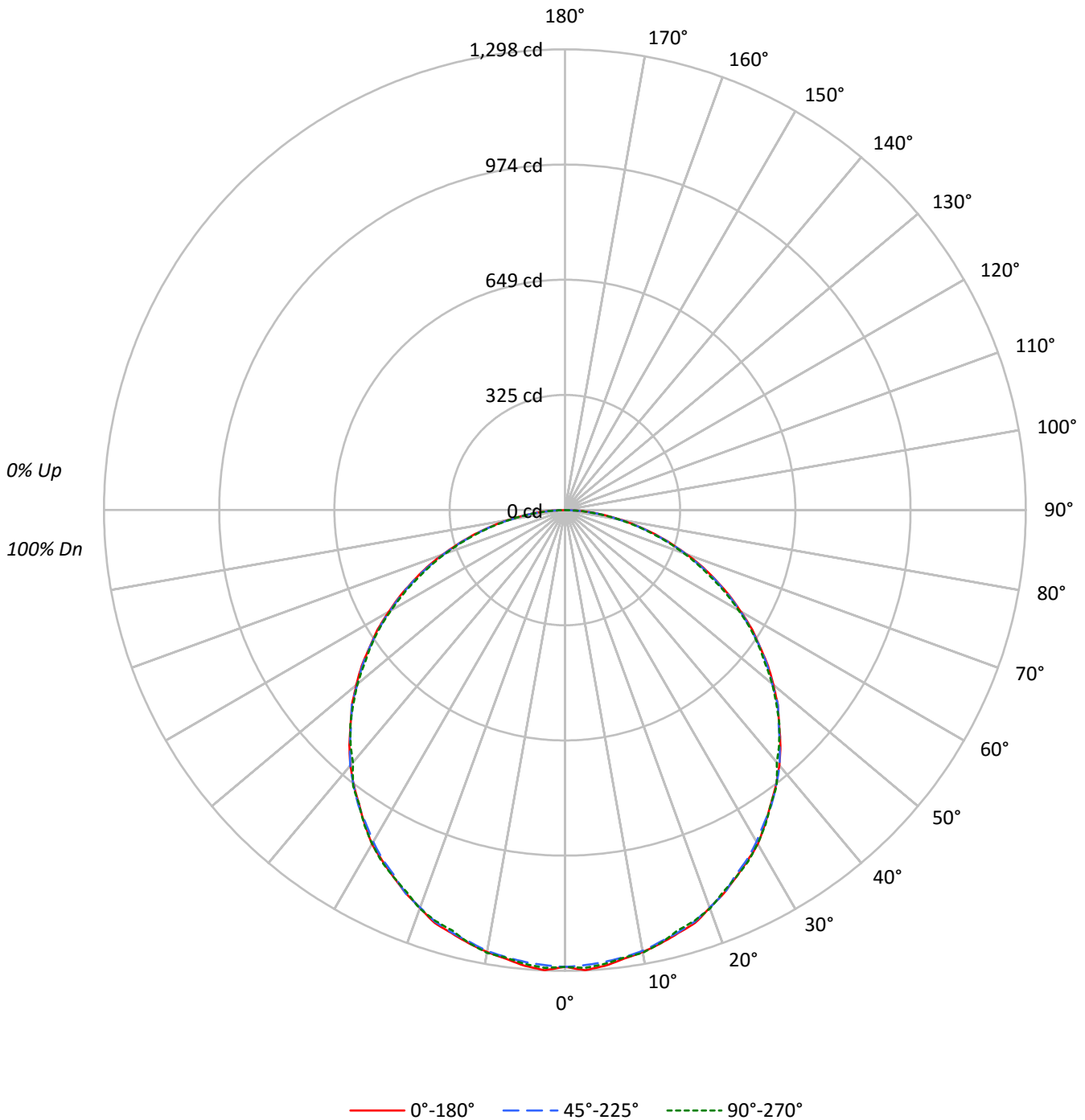
Lumens per Lamp: N/A
Luminaire Lumens: 3700.5 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.45
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°	1731	1731	1731
5°	1741	1726	1734
10°	1727	1723	1730
15°	1718	1716	1708
20°	1708	1706	1711
25°	1693	1687	1693
30°	1688	1677	1687
35°	1661	1666	1661
40°	1650	1652	1631
45°	1623	1619	1625
50°	1605	1596	1596
55°	1573	1570	1563
60°	1539	1533	1522
65°	1498	1491	1463
70°	1438	1425	1408
75°	1366	1343	1321
80°	1274	1231	1215
85°	1118	1068	1051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	3.3
10°-20°	347.3	9.4
20°-30°	526.0	14.2
30°-40°	633.8	17.1
40°-50°	659.0	17.8
50°-60°	598.1	16.2
60°-70°	461.7	12.5
70°-80°	273.5	7.4
80°-90°	79.4	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°	994.9	26.9
0°-40°	1628.7	44.0
0°-60°	2885.9	78.0
0°-90°	3700.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3700.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1287	1287	1287	1287	1287	
5°	1289	1282	1278	1275	1284	122
15°	1234	1228	1232	1229	1226	349
25°	1141	1142	1136	1138	1141	527
35°	1011	1012	1014	1013	1011	634
45°	853	855	851	853	854	660
55°	670	673	669	668	666	601
65°	470	470	468	464	460	466
75°	263	261	258	256	254	277
85°	72	69	69	68	68	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1286.7	1286.7	1286.7	1286.7	1286.7
2.5°	1297.5	1281.3	1283.5	1279.1	1291.0
5°	1288.9	1282.4	1278.1	1274.8	1283.5
7.5°	1274.8	1269.4	1270.5	1269.4	1271.6
10°	1264.0	1264.0	1260.8	1257.5	1266.2
12.5°	1250.0	1250.0	1245.6	1242.4	1248.9
15°	1233.7	1228.3	1231.6	1229.4	1226.2
17.5°	1219.7	1213.2	1215.4	1205.6	1213.2
20°	1192.6	1190.5	1191.6	1186.2	1194.8
22.5°	1168.9	1172.1	1169.9	1167.8	1164.5
25°	1140.7	1141.8	1136.4	1137.5	1140.7
27.5°	1113.7	1117.0	1110.5	1110.5	1117.0
30°	1086.7	1082.4	1079.1	1085.6	1085.6
32.5°	1048.8	1044.5	1044.5	1047.8	1051.0
35°	1011.0	1012.1	1014.2	1013.2	1011.0
37.5°	976.4	974.2	977.5	977.5	979.6
40°	939.6	941.8	940.7	936.4	928.8
42.5°	898.5	900.7	895.3	900.7	893.1
45°	853.1	855.3	851.0	853.1	854.2
47.5°	813.1	811.0	813.1	809.9	807.7
50°	766.6	765.5	762.3	762.3	762.3
52.5°	721.2	718.0	718.0	718.0	711.5
55°	670.4	672.6	669.3	668.2	666.1
57.5°	625.0	620.7	619.6	619.6	618.5
60°	572.0	570.9	569.8	567.7	565.5
62.5°	522.3	517.9	519.0	516.8	513.6
65°	470.4	470.4	468.2	463.9	459.5
67.5°	420.6	418.5	415.2	413.0	408.7
70°	365.5	364.4	362.2	360.1	357.9
72.5°	312.5	311.4	310.3	308.2	306.0
75°	262.7	260.6	258.4	256.3	254.1
77.5°	210.8	209.8	208.7	205.4	205.4
80°	164.4	161.1	158.9	157.9	156.8
82.5°	115.7	115.7	113.5	112.5	112.5
85°	72.4	69.2	69.2	68.1	68.1
87.5°	31.4	30.3	28.1	28.1	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)