

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: P298750

Luminaire Tested: **24FPX-38-L835-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: P298750
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-L835-HE-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

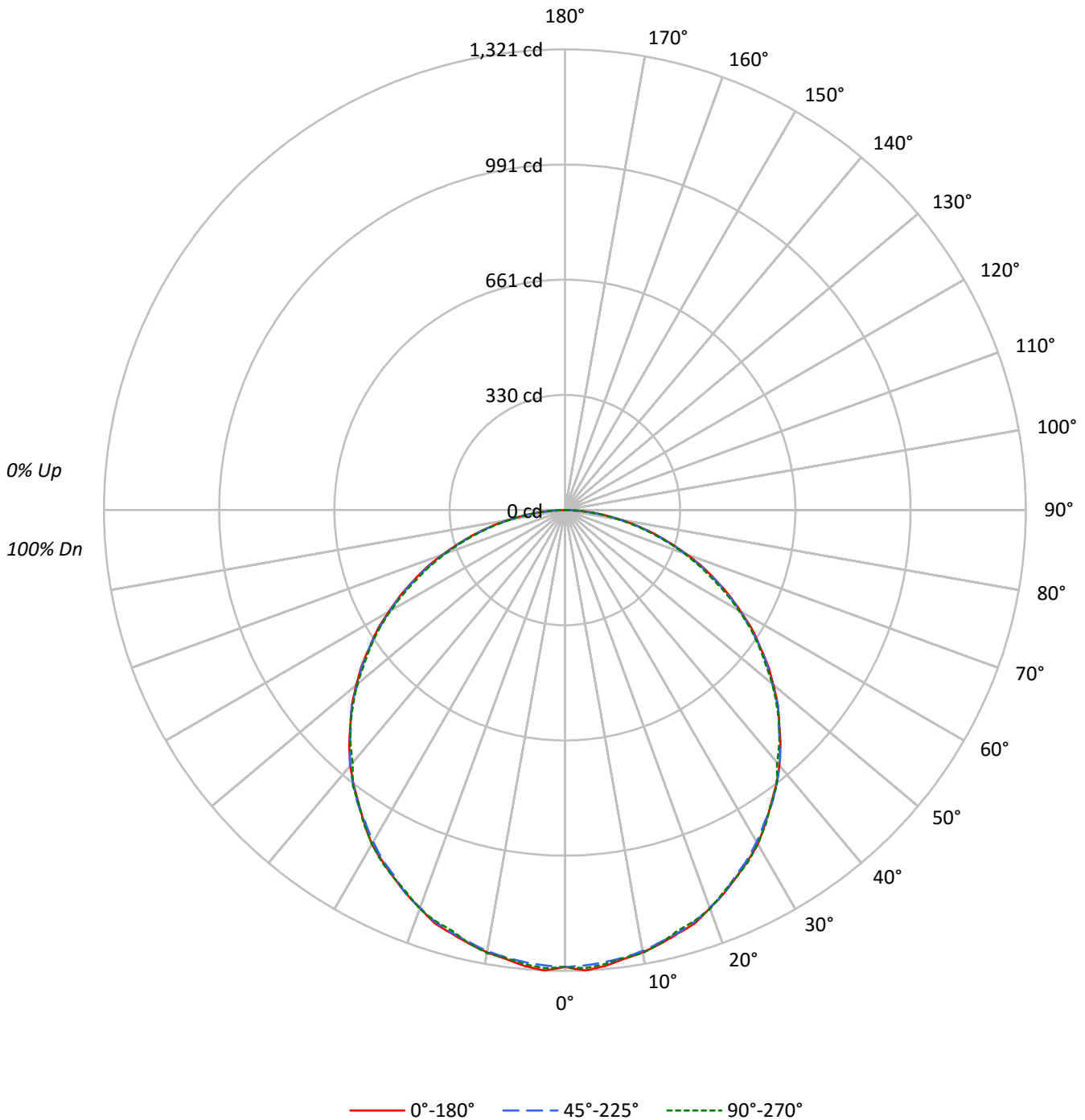
Lumens per Lamp: N/A
Luminaire Lumens: 3768.0 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.93
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°	1763	1763	1763
5°	1773	1758	1765
10°	1758	1754	1762
15°	1750	1747	1739
20°	1739	1737	1742
25°	1724	1718	1724
30°	1719	1707	1717
35°	1691	1696	1691
40°	1681	1682	1661
45°	1653	1649	1655
50°	1634	1625	1625
55°	1601	1599	1591
60°	1567	1561	1549
65°	1525	1518	1490
70°	1464	1451	1434
75°	1391	1368	1345
80°	1297	1254	1237
85°	1139	1088	1071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	3.3
10°-20°	353.7	9.4
20°-30°	535.6	14.2
30°-40°	645.4	17.1
40°-50°	671.1	17.8
50°-60°	609.0	16.2
60°-70°	470.1	12.5
70°-80°	278.5	7.4
80°-90°	80.9	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°	1013.1	26.9
0°-40°	1658.4	44.0
0°-60°	2938.5	78.0
0°-90°	3768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3768.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1312	1306	1301	1298	1307	124
15°	1256	1251	1254	1252	1248	355
25°	1162	1163	1157	1158	1162	536
35°	1029	1030	1033	1032	1029	646
45°	869	871	866	869	870	672
55°	683	685	682	680	678	612
65°	479	479	477	472	468	474
75°	268	265	263	261	259	282
85°	74	70	70	69	69	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.2	1310.2	1310.2	1310.2	1310.2
2.5°	1321.2	1304.7	1306.9	1302.5	1314.6
5°	1312.4	1305.8	1301.4	1298.1	1306.9
7.5°	1298.1	1292.6	1293.7	1292.6	1294.8
10°	1287.1	1287.1	1283.8	1280.5	1289.3
12.5°	1272.8	1272.8	1268.4	1265.1	1271.7
15°	1256.3	1250.7	1254.1	1251.8	1248.5
17.5°	1241.9	1235.3	1237.5	1227.6	1235.3
20°	1214.4	1212.2	1213.3	1207.8	1216.6
22.5°	1190.2	1193.5	1191.3	1189.1	1185.8
25°	1161.6	1162.7	1157.2	1158.3	1161.6
27.5°	1134.0	1137.3	1130.7	1130.7	1137.3
30°	1106.5	1102.1	1098.8	1105.4	1105.4
32.5°	1068.0	1063.6	1063.6	1066.9	1070.2
35°	1029.4	1030.5	1032.7	1031.6	1029.4
37.5°	994.2	992.0	995.3	995.3	997.5
40°	956.8	959.0	957.9	953.5	945.8
42.5°	914.9	917.1	911.6	917.1	909.4
45°	868.7	870.9	866.5	868.7	869.8
47.5°	828.0	825.8	828.0	824.7	822.5
50°	780.6	779.5	776.2	776.2	776.2
52.5°	734.4	731.1	731.1	731.1	724.5
55°	682.6	684.8	681.5	680.4	678.2
57.5°	636.4	632.0	630.9	630.9	629.8
60°	582.4	581.3	580.2	578.0	575.8
62.5°	531.8	527.4	528.5	526.3	523.0
65°	478.9	478.9	476.7	472.3	467.9
67.5°	428.3	426.1	422.8	420.6	416.2
70°	372.1	371.0	368.8	366.6	364.4
72.5°	318.2	317.1	316.0	313.8	311.6
75°	267.5	265.3	263.1	260.9	258.7
77.5°	214.7	213.6	212.5	209.2	209.2
80°	167.4	164.1	161.8	160.7	159.6
82.5°	117.8	117.8	115.6	114.5	114.5
85°	73.8	70.5	70.5	69.4	69.4
87.5°	31.9	30.8	28.6	28.6	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)