

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: P298555

Luminaire Tested: **22FPX-42-L840-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: P298555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-179-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22FPX-42-L840-LV1-SWPD1
Description: 2x2 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

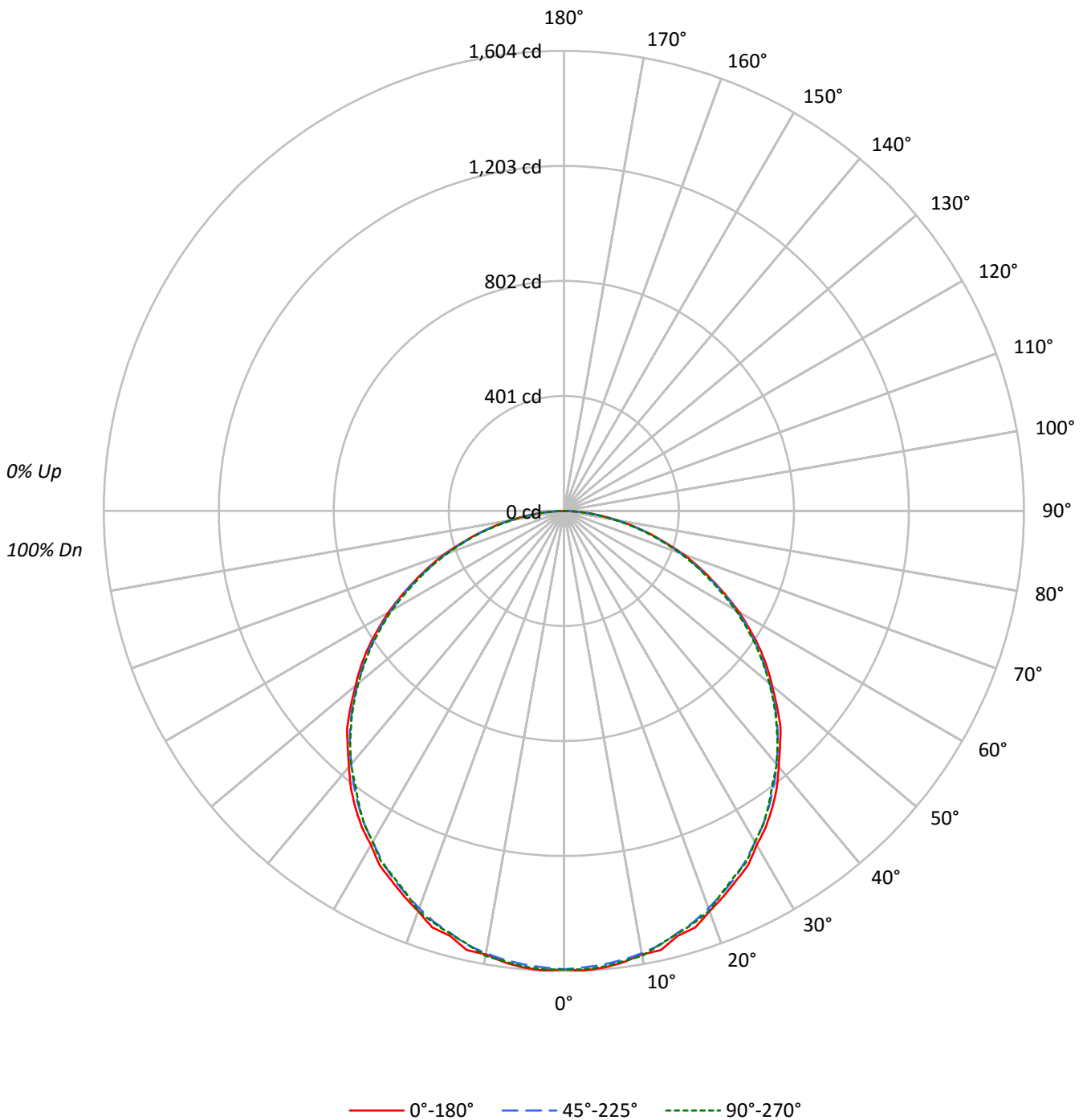
Lumens per Lamp: N/A
Luminaire Lumens: 4545.4 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 41.585
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	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
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°	4300	4300	4300
5°	4317	4288	4307
10°	4288	4279	4303
15°	4272	4247	4252
20°	4253	4222	4247
25°	4222	4191	4175
30°	4179	4140	4140
35°	4159	4106	4094
40°	4094	4050	4056
45°	4066	4004	3991
50°	3969	3924	3916
55°	3909	3858	3833
60°	3798	3750	3721
65°	3636	3601	3556
70°	3504	3447	3391
75°	3267	3211	3174
80°	2949	2893	2839
85°	2495	2439	2384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	3.3
10°-20°	431.9	9.5
20°-30°	651.8	14.3
30°-40°	783.7	17.2
40°-50°	812.1	17.9
50°-60°	734.7	16.2
60°-70°	560.7	12.3
70°-80°	326.9	7.2
80°-90°	92.4	2.0
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°	1234.8	27.2
0°-40°	2018.6	44.4
0°-60°	3565.4	78.4
0°-90°	4545.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4545.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1598	1598	1598	1598	1598	
5°	1598	1593	1587	1587	1594	152
15°	1534	1532	1524	1528	1526	435
25°	1422	1422	1411	1411	1406	656
35°	1266	1257	1250	1248	1246	791
45°	1068	1056	1052	1047	1049	820
55°	833	828	822	819	817	743
65°	571	571	566	564	558	567
75°	314	312	309	304	305	332
85°	81	84	79	81	77	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1598.1	1598.1	1598.1	1598.1	1598.1
2.5°	1603.5	1594.5	1592.7	1596.3	1599.9
5°	1598.1	1592.7	1587.3	1587.3	1594.5
7.5°	1587.3	1581.9	1578.4	1578.4	1583.7
10°	1569.4	1564.0	1565.8	1565.8	1574.8
12.5°	1567.6	1551.4	1549.6	1551.4	1547.8
15°	1533.5	1531.7	1524.5	1528.1	1526.3
17.5°	1522.7	1511.9	1502.9	1504.7	1506.5
20°	1485.0	1481.4	1474.2	1476.0	1483.2
22.5°	1454.5	1456.3	1443.7	1443.7	1440.1
25°	1422.1	1422.1	1411.4	1411.4	1406.0
27.5°	1391.6	1382.6	1373.7	1375.5	1379.0
30°	1344.9	1341.3	1332.4	1334.2	1332.4
32.5°	1309.0	1307.2	1294.6	1291.1	1294.6
35°	1265.9	1256.9	1249.8	1248.0	1246.2
37.5°	1219.2	1212.0	1203.1	1201.3	1195.9
40°	1165.4	1163.6	1152.8	1154.6	1154.6
42.5°	1115.1	1109.7	1104.3	1100.7	1102.5
45°	1068.4	1055.8	1052.2	1046.9	1048.6
47.5°	1007.3	1002.0	998.4	991.2	993.0
50°	948.1	948.1	937.3	935.5	935.5
52.5°	892.4	888.8	879.9	881.7	876.3
55°	833.2	827.8	822.4	818.8	817.0
57.5°	768.5	763.1	759.6	754.2	754.2
60°	705.7	698.5	696.7	689.5	691.3
62.5°	637.4	635.7	633.9	628.5	623.1
65°	571.0	571.0	565.6	563.8	558.4
67.5°	508.2	504.6	499.2	499.2	495.6
70°	445.3	439.9	438.1	432.7	431.0
72.5°	375.3	375.3	369.9	368.1	368.1
75°	314.2	312.4	308.8	303.5	305.3
77.5°	251.4	249.6	247.8	244.2	242.4
80°	190.3	190.3	186.7	188.5	183.2
82.5°	132.9	134.7	131.1	131.1	127.5
85°	80.8	84.4	79.0	80.8	77.2
87.5°	34.1	34.1	32.3	32.3	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)