

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: P298650

Luminaire Tested: **14FPX-42-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: P298650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-179-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14FPX-42-L850-LV1-SWPD1
Description: 1x4 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

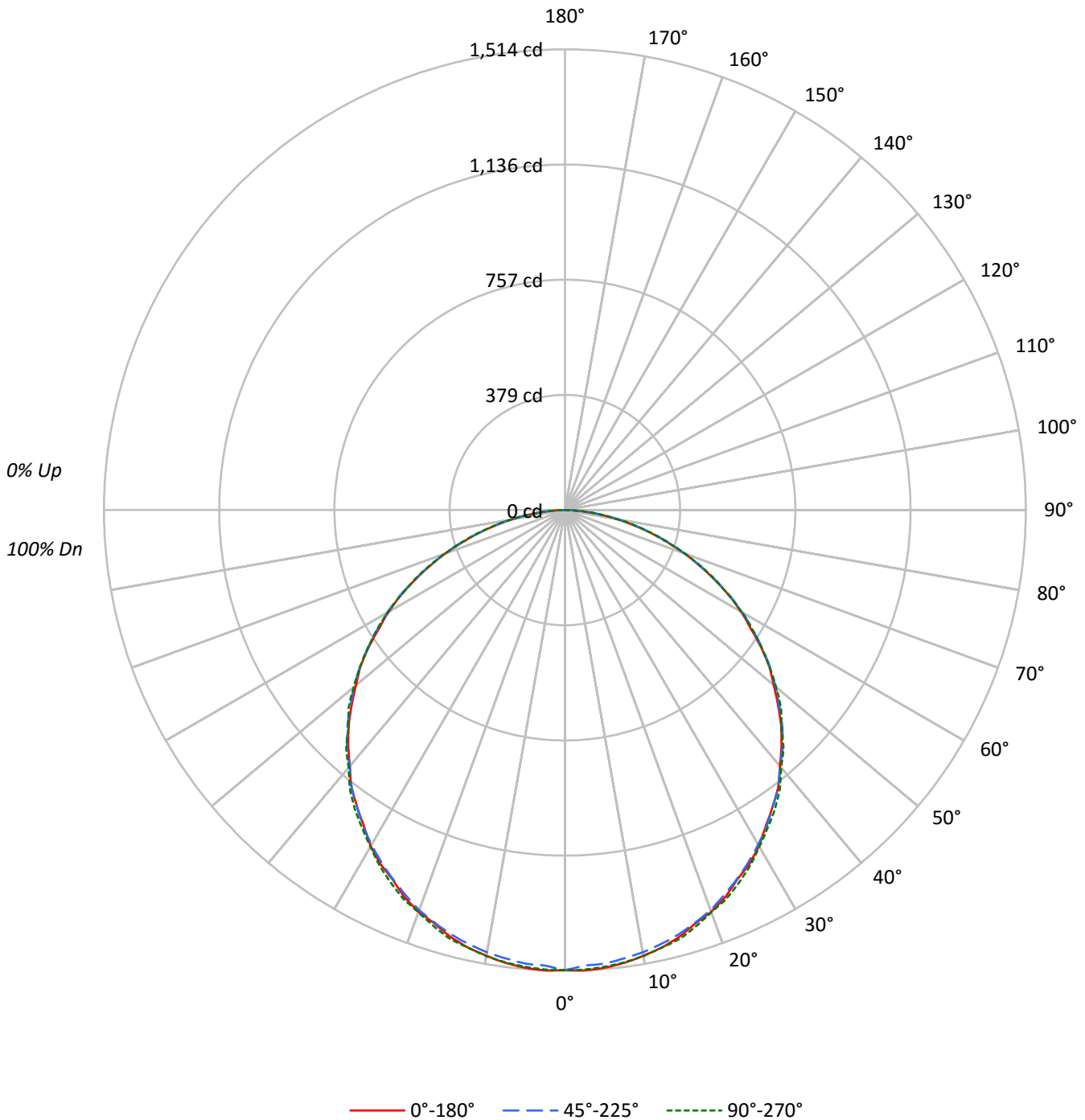
Lumens per Lamp: N/A
Luminaire Lumens: 4346.7 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.07
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: P298650
CATALOG NUMBER: 14FPX-42-L850-LV1-SWPD1

Luminous Intensity Polar Plot





TEST NUMBER: P298650

CATALOG NUMBER: 14FPX-42-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	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	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°	4067	4067	4067
5°	4078	4041	4068
10°	4063	4031	4066
15°	4045	4022	4065
20°	4023	4007	4028
25°	3977	3972	4015
30°	3962	3945	3971
35°	3909	3909	3948
40°	3859	3862	3881
45°	3822	3846	3826
50°	3750	3784	3792
55°	3692	3709	3705
60°	3597	3622	3617
65°	3466	3477	3489
70°	3299	3306	3313
75°	3051	3079	3089
80°	2737	2779	2793
85°	2238	2350	2405



TEST NUMBER: P298650
 CATALOG NUMBER: 14FPX-42-L850-LV1-SWPD1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.8	3.3
10°-20°	409.0	9.4
20°-30°	619.7	14.3
30°-40°	747.6	17.2
40°-50°	778.7	17.9
50°-60°	706.4	16.3
60°-70°	540.7	12.4
70°-80°	313.9	7.2
80°-90°	87.9	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°	1171.5	27.0
0°-40°	1919.1	44.2
0°-60°	3404.2	78.3
0°-90°	4346.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4346.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1510	1504	1496	1504	1506	143
15°	1452	1448	1444	1452	1459	409
25°	1340	1343	1338	1348	1352	619
35°	1190	1194	1190	1197	1202	745
45°	1004	1012	1011	1015	1005	773
55°	787	792	791	792	790	702
65°	544	546	546	547	548	539
75°	293	294	296	299	297	311
85°	72	73	76	78	78	86
90°	0	0	0	0	0	



TEST NUMBER: P298650

CATALOG NUMBER: 14FPX-42-L850-LV1-SWPD1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1511.5	1511.5	1511.5	1511.5	1511.5
2.5°	1514.3	1506.1	1498.0	1510.6	1511.5
5°	1509.7	1504.3	1496.1	1504.3	1506.1
7.5°	1500.7	1493.4	1486.2	1499.8	1498.9
10°	1487.1	1484.4	1475.3	1485.3	1488.0
12.5°	1472.6	1468.1	1460.8	1468.1	1472.6
15°	1451.8	1448.1	1443.6	1451.8	1459.0
17.5°	1424.6	1426.4	1421.9	1430.9	1433.7
20°	1404.7	1402.0	1399.2	1406.5	1406.5
22.5°	1376.6	1379.3	1368.4	1381.1	1383.8
25°	1339.5	1343.1	1337.7	1348.5	1352.1
27.5°	1311.4	1311.4	1305.0	1313.2	1317.7
30°	1275.2	1274.3	1269.7	1275.2	1277.9
32.5°	1229.0	1238.9	1233.5	1241.7	1238.9
35°	1190.0	1193.7	1190.0	1197.3	1201.8
37.5°	1151.1	1152.9	1150.2	1154.7	1159.2
40°	1098.6	1104.9	1099.5	1107.6	1104.9
42.5°	1053.3	1059.6	1059.6	1061.4	1063.2
45°	1004.4	1011.6	1010.7	1015.2	1005.3
47.5°	950.0	960.0	955.5	964.5	963.6
50°	895.7	906.6	903.8	902.0	905.7
52.5°	846.8	850.4	849.5	849.5	848.6
55°	787.0	791.5	790.6	792.4	789.7
57.5°	723.6	732.7	731.8	731.8	731.8
60°	668.4	672.0	672.9	672.0	672.0
62.5°	608.6	610.4	612.2	607.7	607.7
65°	544.3	546.1	546.1	547.0	547.9
67.5°	480.0	485.4	482.7	482.7	485.4
70°	419.3	420.2	420.2	420.2	421.1
72.5°	354.1	355.9	359.5	360.5	357.7
75°	293.4	294.3	296.1	298.9	297.1
77.5°	232.8	234.6	237.3	238.2	239.1
80°	176.6	178.4	179.3	182.0	180.2
82.5°	125.0	125.9	125.9	127.7	128.6
85°	72.5	73.4	76.1	77.9	77.9
87.5°	30.8	31.7	30.8	30.8	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)