

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: P298546

Luminaire Tested: **22FPX-21-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: P298546
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-21-L835-LV1-SWPD1
Description: 2x2 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

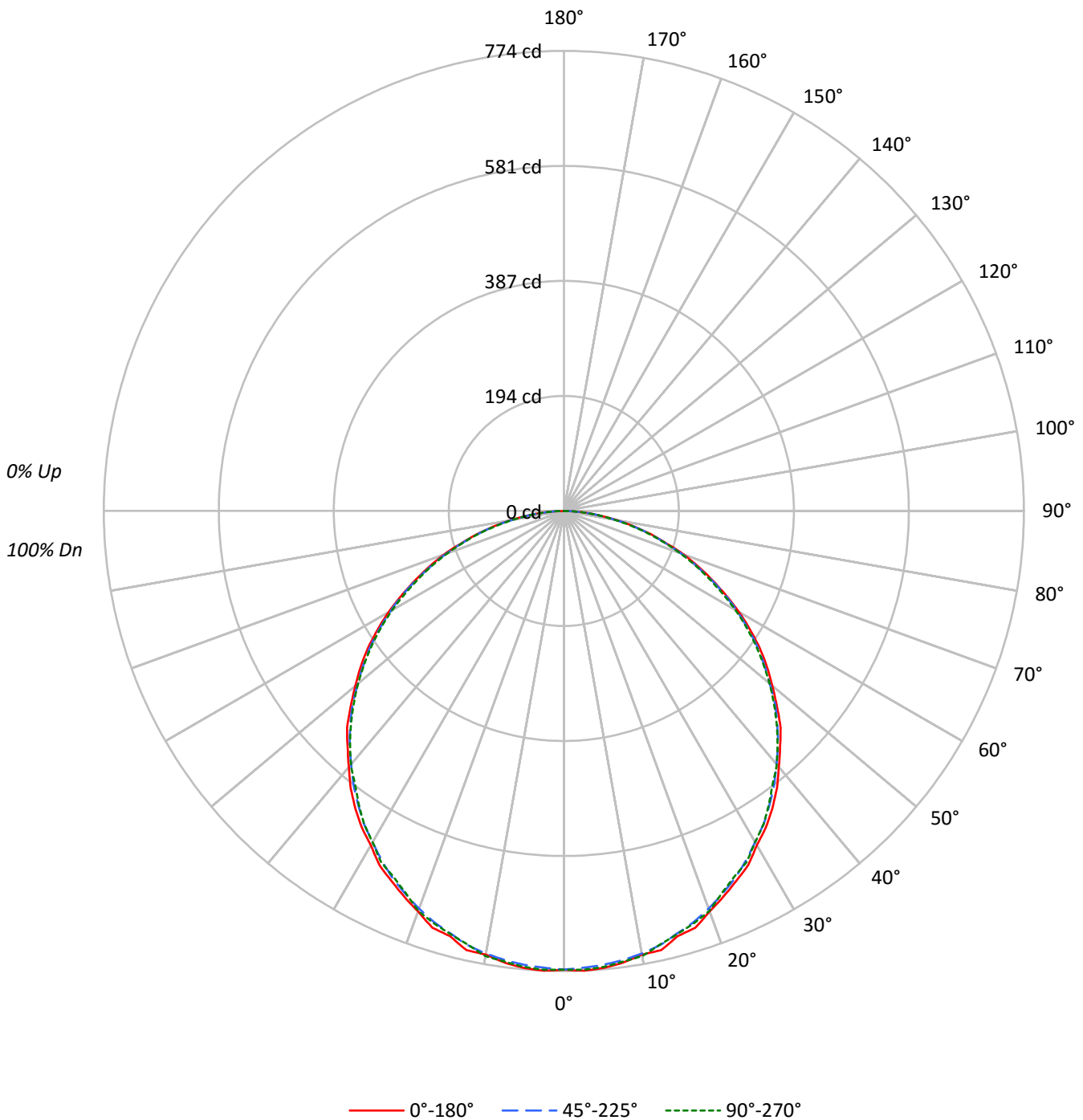
Lumens per Lamp: N/A
Luminaire Lumens: 2194.5 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22.28
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°	2076	2076	2076
5°	2084	2070	2080
10°	2070	2066	2078
15°	2063	2050	2053
20°	2053	2038	2051
25°	2039	2023	2015
30°	2018	1999	1999
35°	2008	1982	1977
40°	1977	1955	1958
45°	1963	1933	1927
50°	1916	1894	1891
55°	1887	1863	1851
60°	1834	1810	1796
65°	1755	1739	1717
70°	1692	1664	1637
75°	1577	1550	1533
80°	1424	1398	1370
85°	1204	1176	1152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	3.3
10°-20°	208.5	9.5
20°-30°	314.7	14.3
30°-40°	378.4	17.2
40°-50°	392.1	17.9
50°-60°	354.7	16.2
60°-70°	270.7	12.3
70°-80°	157.8	7.2
80°-90°	44.6	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°	596.2	27.2
0°-40°	974.6	44.4
0°-60°	1721.4	78.4
0°-90°	2194.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2194.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	772	769	766	766	770	73
15°	740	740	736	738	737	210
25°	687	687	681	681	679	317
35°	611	607	603	602	602	382
45°	516	510	508	505	506	396
55°	402	400	397	395	394	359
65°	276	276	273	272	270	274
75°	152	151	149	146	147	160
85°	39	41	38	39	37	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.6	771.6	771.6	771.6	771.6
2.5°	774.2	769.9	769.0	770.7	772.5
5°	771.6	769.0	766.4	766.4	769.9
7.5°	766.4	763.8	762.0	762.0	764.6
10°	757.7	755.1	756.0	756.0	760.3
12.5°	756.8	749.0	748.2	749.0	747.3
15°	740.4	739.5	736.0	737.8	736.9
17.5°	735.2	730.0	725.6	726.5	727.4
20°	717.0	715.2	711.8	712.6	716.1
22.5°	702.2	703.1	697.0	697.0	695.3
25°	686.6	686.6	681.4	681.4	678.8
27.5°	671.9	667.6	663.2	664.1	665.8
30°	649.3	647.6	643.3	644.1	643.3
32.5°	632.0	631.1	625.1	623.3	625.1
35°	611.2	606.9	603.4	602.5	601.7
37.5°	588.7	585.2	580.9	580.0	577.4
40°	562.7	561.8	556.6	557.4	557.4
42.5°	538.4	535.8	533.2	531.4	532.3
45°	515.8	509.8	508.0	505.4	506.3
47.5°	486.4	483.8	482.0	478.6	479.4
50°	457.7	457.7	452.5	451.7	451.7
52.5°	430.9	429.1	424.8	425.7	423.1
55°	402.3	399.7	397.1	395.3	394.5
57.5°	371.1	368.5	366.7	364.1	364.1
60°	340.7	337.2	336.4	332.9	333.8
62.5°	307.8	306.9	306.0	303.4	300.8
65°	275.7	275.7	273.1	272.2	269.6
67.5°	245.3	243.6	241.0	241.0	239.3
70°	215.0	212.4	211.5	208.9	208.1
72.5°	181.2	181.2	178.6	177.7	177.7
75°	151.7	150.8	149.1	146.5	147.4
77.5°	121.4	120.5	119.6	117.9	117.0
80°	91.9	91.9	90.2	91.0	88.4
82.5°	64.2	65.0	63.3	63.3	61.6
85°	39.0	40.7	38.1	39.0	37.3
87.5°	16.5	16.5	15.6	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)