

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: P298550

Luminaire Tested: **22FPX-32-L830-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: P298550
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-32-L830-LV1-SWPD1
Description: 2x2 FPX SERIES LED PANEL, 3000K 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

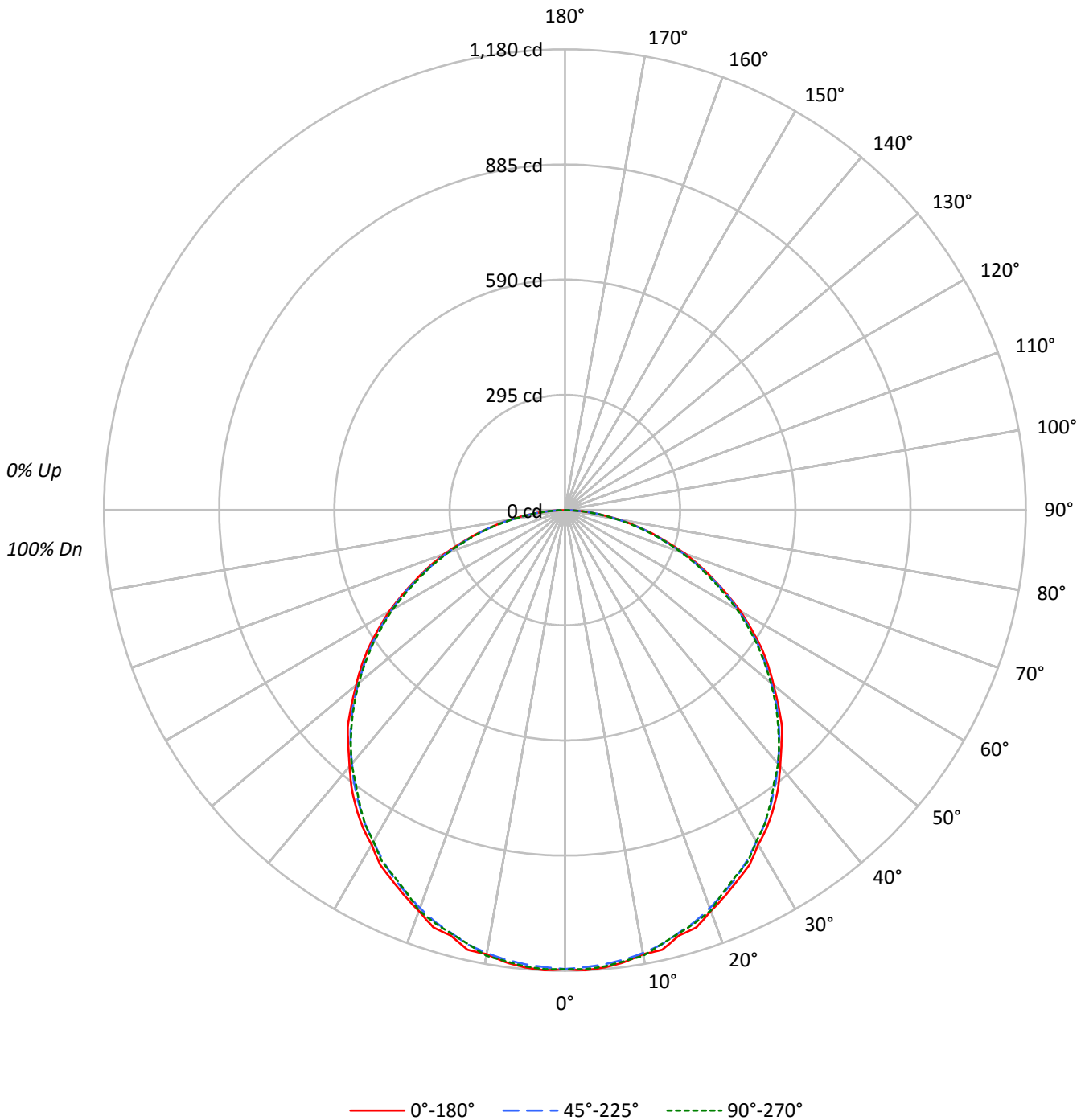
Lumens per Lamp: N/A
Luminaire Lumens: 3344.1 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 30.47
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°	3164	3164	3164
5°	3176	3155	3169
10°	3155	3148	3166
15°	3143	3125	3128
20°	3129	3106	3125
25°	3107	3083	3071
30°	3075	3046	3046
35°	3060	3021	3012
40°	3012	2979	2984
45°	2991	2946	2936
50°	2920	2887	2882
55°	2876	2838	2820
60°	2794	2759	2737
65°	2675	2649	2616
70°	2578	2536	2495
75°	2404	2362	2335
80°	2170	2129	2087
85°	1834	1794	1754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	3.3
10°-20°	317.8	9.5
20°-30°	479.6	14.3
30°-40°	576.6	17.2
40°-50°	597.5	17.9
50°-60°	540.5	16.2
60°-70°	412.5	12.3
70°-80°	240.5	7.2
80°-90°	68.0	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°	908.5	27.2
0°-40°	1485.1	44.4
0°-60°	2623.1	78.4
0°-90°	3344.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3344.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1176	1172	1168	1168	1173	112
15°	1128	1127	1122	1124	1123	320
25°	1046	1046	1038	1038	1034	482
35°	931	925	920	918	917	582
45°	786	777	774	770	772	603
55°	613	609	605	602	601	546
65°	420	420	416	415	411	417
75°	231	230	227	223	225	244
85°	59	62	58	59	57	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1175.7	1175.7	1175.7	1175.7	1175.7
2.5°	1179.7	1173.1	1171.8	1174.4	1177.1
5°	1175.7	1171.8	1167.8	1167.8	1173.1
7.5°	1167.8	1163.9	1161.2	1161.2	1165.2
10°	1154.6	1150.6	1152.0	1152.0	1158.6
12.5°	1153.3	1141.4	1140.1	1141.4	1138.8
15°	1128.2	1126.9	1121.6	1124.2	1122.9
17.5°	1120.3	1112.3	1105.7	1107.1	1108.4
20°	1092.5	1089.9	1084.6	1085.9	1091.2
22.5°	1070.1	1071.4	1062.1	1062.1	1059.5
25°	1046.3	1046.3	1038.4	1038.4	1034.4
27.5°	1023.8	1017.2	1010.6	1011.9	1014.6
30°	989.5	986.8	980.2	981.6	980.2
32.5°	963.1	961.7	952.5	949.8	952.5
35°	931.4	924.7	919.5	918.1	916.8
37.5°	897.0	891.7	885.1	883.8	879.8
40°	857.4	856.1	848.1	849.4	849.4
42.5°	820.4	816.4	812.5	809.8	811.1
45°	786.0	776.8	774.1	770.2	771.5
47.5°	741.1	737.2	734.5	729.2	730.5
50°	697.5	697.5	689.6	688.3	688.3
52.5°	656.6	653.9	647.3	648.6	644.7
55°	613.0	609.0	605.0	602.4	601.1
57.5°	565.4	561.5	558.8	554.8	554.8
60°	519.2	513.9	512.6	507.3	508.6
62.5°	469.0	467.7	466.3	462.4	458.4
65°	420.1	420.1	416.1	414.8	410.9
67.5°	373.9	371.2	367.3	367.3	364.6
70°	327.6	323.7	322.3	318.4	317.1
72.5°	276.1	276.1	272.1	270.8	270.8
75°	231.2	229.9	227.2	223.3	224.6
77.5°	184.9	183.6	182.3	179.7	178.3
80°	140.0	140.0	137.4	138.7	134.7
82.5°	97.8	99.1	96.4	96.4	93.8
85°	59.4	62.1	58.1	59.4	56.8
87.5°	25.1	25.1	23.8	23.8	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)