

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: P298549

Luminaire Tested: **22FPX-25-L840-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: P298549
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-25-L840-HE-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

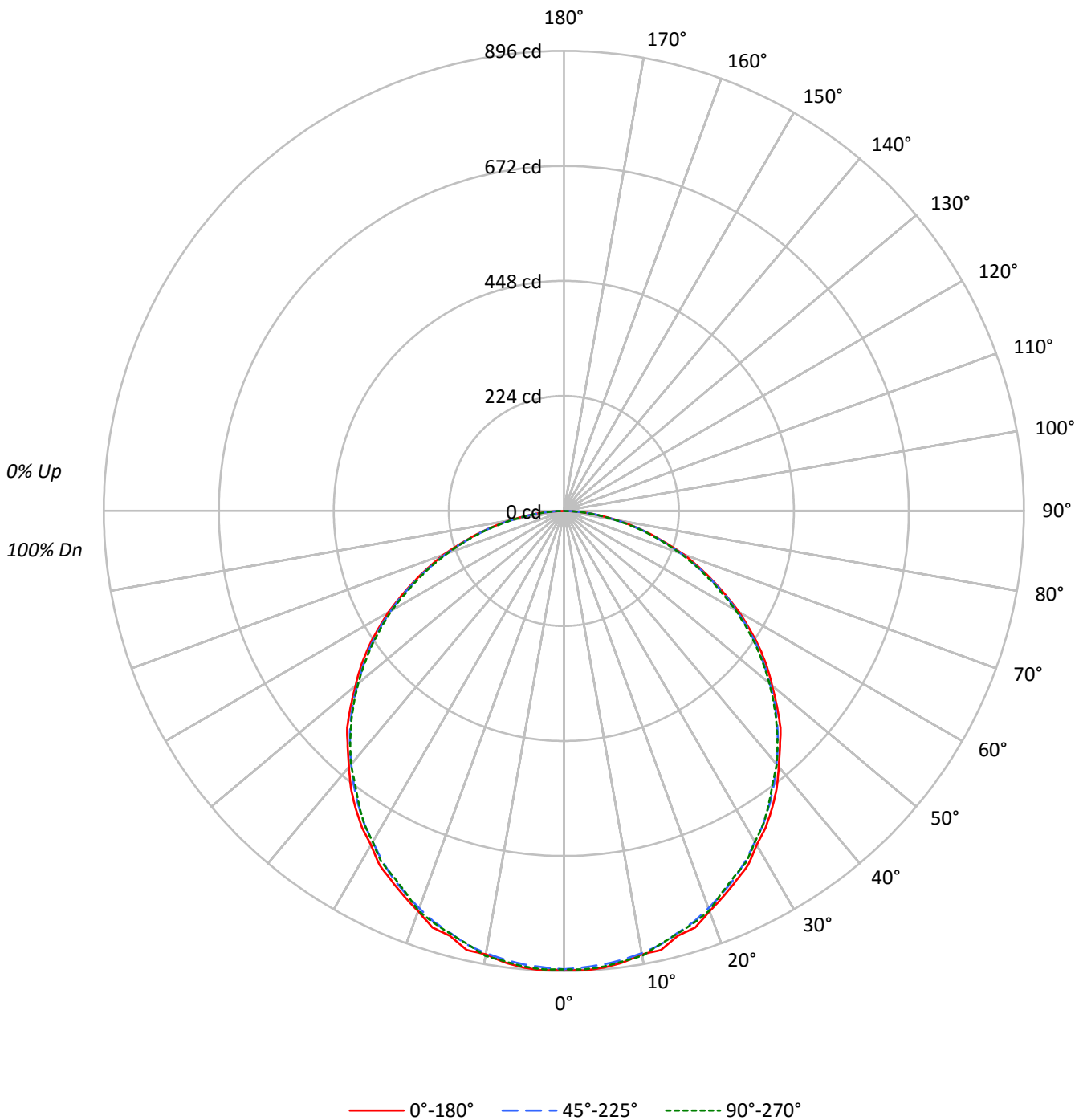
Lumens per Lamp: N/A
Luminaire Lumens: 2538.9 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22.11
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°	2402	2402	2402
5°	2411	2395	2406
10°	2395	2390	2403
15°	2386	2372	2375
20°	2375	2358	2373
25°	2359	2341	2332
30°	2334	2312	2312
35°	2323	2293	2287
40°	2286	2262	2265
45°	2271	2237	2229
50°	2217	2192	2188
55°	2183	2155	2141
60°	2122	2095	2079
65°	2031	2011	1986
70°	1957	1925	1894
75°	1825	1794	1773
80°	1647	1616	1585
85°	1392	1362	1331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	3.3
10°-20°	241.3	9.5
20°-30°	364.1	14.3
30°-40°	437.8	17.2
40°-50°	453.6	17.9
50°-60°	410.4	16.2
60°-70°	313.2	12.3
70°-80°	182.6	7.2
80°-90°	51.6	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°	689.7	27.2
0°-40°	1127.5	44.4
0°-60°	1991.5	78.4
0°-90°	2538.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2538.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	893	893	893	893	893	
5°	893	890	887	887	891	85
15°	857	856	852	854	852	243
25°	794	794	788	788	785	366
35°	707	702	698	697	696	442
45°	597	590	588	585	586	458
55°	465	462	459	457	456	415
65°	319	319	316	315	312	317
75°	176	174	172	170	170	185
85°	45	47	44	45	43	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	892.7	892.7	892.7	892.7	892.7
2.5°	895.7	890.7	889.6	891.7	893.7
5°	892.7	889.6	886.6	886.6	890.7
7.5°	886.6	883.6	881.6	881.6	884.6
10°	876.6	873.6	874.6	874.6	879.6
12.5°	875.6	866.6	865.6	866.6	864.6
15°	856.6	855.5	851.5	853.5	852.5
17.5°	850.5	844.5	839.5	840.5	841.5
20°	829.5	827.5	823.5	824.5	828.5
22.5°	812.4	813.4	806.4	806.4	804.4
25°	794.4	794.4	788.3	788.3	785.3
27.5°	777.3	772.3	767.3	768.3	770.3
30°	751.2	749.2	744.2	745.2	744.2
32.5°	731.2	730.2	723.2	721.1	723.2
35°	707.1	702.1	698.1	697.1	696.1
37.5°	681.0	677.0	672.0	671.0	668.0
40°	650.9	649.9	643.9	644.9	644.9
42.5°	622.9	619.8	616.8	614.8	615.8
45°	596.8	589.8	587.8	584.7	585.7
47.5°	562.7	559.7	557.7	553.6	554.7
50°	529.6	529.6	523.6	522.6	522.6
52.5°	498.5	496.5	491.5	492.5	489.5
55°	465.4	462.4	459.4	457.4	456.4
57.5°	429.3	426.3	424.3	421.3	421.3
60°	394.2	390.2	389.2	385.1	386.2
62.5°	356.1	355.1	354.1	351.0	348.0
65°	319.0	319.0	315.9	314.9	311.9
67.5°	283.8	281.8	278.8	278.8	276.8
70°	248.7	245.7	244.7	241.7	240.7
72.5°	209.6	209.6	206.6	205.6	205.6
75°	175.5	174.5	172.5	169.5	170.5
77.5°	140.4	139.4	138.4	136.4	135.4
80°	106.3	106.3	104.3	105.3	102.3
82.5°	74.2	75.2	73.2	73.2	71.2
85°	45.1	47.1	44.1	45.1	43.1
87.5°	19.1	19.1	18.1	18.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)