

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: P298646

Luminaire Tested: **14FPX-30-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: P298646  
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-30-L840-HE-LV1-SWPD1  
Description: 1x4 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**

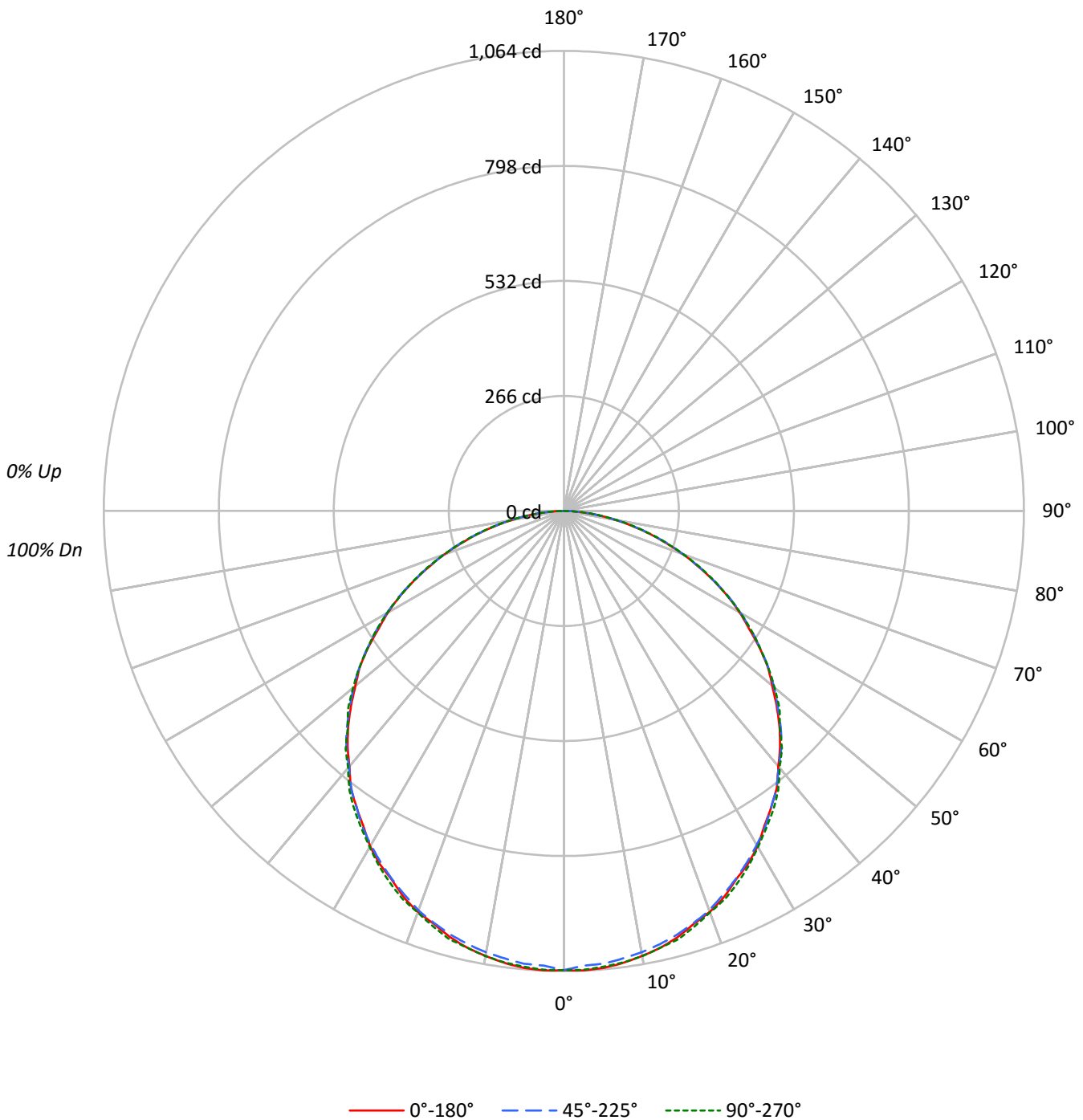
Lumens per Lamp: N/A  
Luminaire Lumens: 3053.6 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.5  
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	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°	2858	2858	2858
5°	2865	2839	2858
10°	2855	2832	2856
15°	2841	2825	2856
20°	2826	2815	2830
25°	2794	2790	2820
30°	2783	2772	2789
35°	2746	2746	2774
40°	2711	2713	2727
45°	2685	2702	2688
50°	2634	2658	2663
55°	2594	2606	2603
60°	2527	2544	2541
65°	2435	2443	2451
70°	2318	2323	2327
75°	2143	2163	2170
80°	1923	1953	1962
85°	1572	1649	1689



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.3	3.3
10°-20°	287.3	9.4
20°-30°	435.3	14.3
30°-40°	525.2	17.2
40°-50°	547.0	17.9
50°-60°	496.3	16.3
60°-70°	379.8	12.4
70°-80°	220.5	7.2
80°-90°	61.7	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°	823.0	27.0
0°-40°	1348.2	44.2
0°-60°	2391.5	78.3
0°-90°	3053.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3053.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1062	1062	1062	1062	1062	
5°	1061	1057	1051	1057	1058	101
15°	1020	1017	1014	1020	1025	288
25°	941	944	940	947	950	435
35°	836	838	836	841	844	523
45°	706	711	710	713	706	543
55°	553	556	555	557	555	493
65°	382	384	384	384	385	378
75°	206	207	208	210	209	218
85°	51	52	53	55	55	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1061.9	1061.9	1061.9	1061.9	1061.9
2.5°	1063.8	1058.0	1052.3	1061.2	1061.9
5°	1060.6	1056.8	1051.0	1056.8	1058.0
7.5°	1054.2	1049.1	1044.0	1053.6	1052.9
10°	1044.7	1042.8	1036.4	1043.4	1045.3
12.5°	1034.5	1031.3	1026.2	1031.3	1034.5
15°	1019.9	1017.3	1014.1	1019.9	1025.0
17.5°	1000.8	1002.1	998.9	1005.2	1007.1
20°	986.8	984.9	983.0	988.1	988.1
22.5°	967.1	969.0	961.3	970.2	972.1
25°	941.0	943.5	939.7	947.3	949.9
27.5°	921.3	921.3	916.8	922.5	925.7
30°	895.8	895.2	892.0	895.8	897.7
32.5°	863.4	870.4	866.5	872.3	870.4
35°	836.0	838.5	836.0	841.1	844.3
37.5°	808.6	809.9	808.0	811.2	814.4
40°	771.7	776.2	772.4	778.1	776.2
42.5°	739.9	744.4	744.4	745.7	746.9
45°	705.6	710.7	710.0	713.2	706.2
47.5°	667.4	674.4	671.2	677.6	676.9
50°	629.2	636.9	635.0	633.7	636.2
52.5°	594.9	597.4	596.8	596.8	596.1
55°	552.9	556.1	555.4	556.7	554.8
57.5°	508.3	514.7	514.1	514.1	514.1
60°	469.5	472.1	472.7	472.1	472.1
62.5°	427.5	428.8	430.1	426.9	426.9
65°	382.4	383.6	383.6	384.3	384.9
67.5°	337.2	341.0	339.1	339.1	341.0
70°	294.6	295.2	295.2	295.2	295.8
72.5°	248.8	250.0	252.6	253.2	251.3
75°	206.1	206.8	208.0	210.0	208.7
77.5°	163.5	164.8	166.7	167.3	168.0
80°	124.1	125.3	126.0	127.9	126.6
82.5°	87.8	88.4	88.4	89.7	90.3
85°	50.9	51.5	53.4	54.7	54.7
87.5°	21.6	22.3	21.6	21.6	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)