

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: P298645

Luminaire Tested: **14FPX-30-L835-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: P298645
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-L835-HE-LV1-SWPD1
Description: 1x4 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

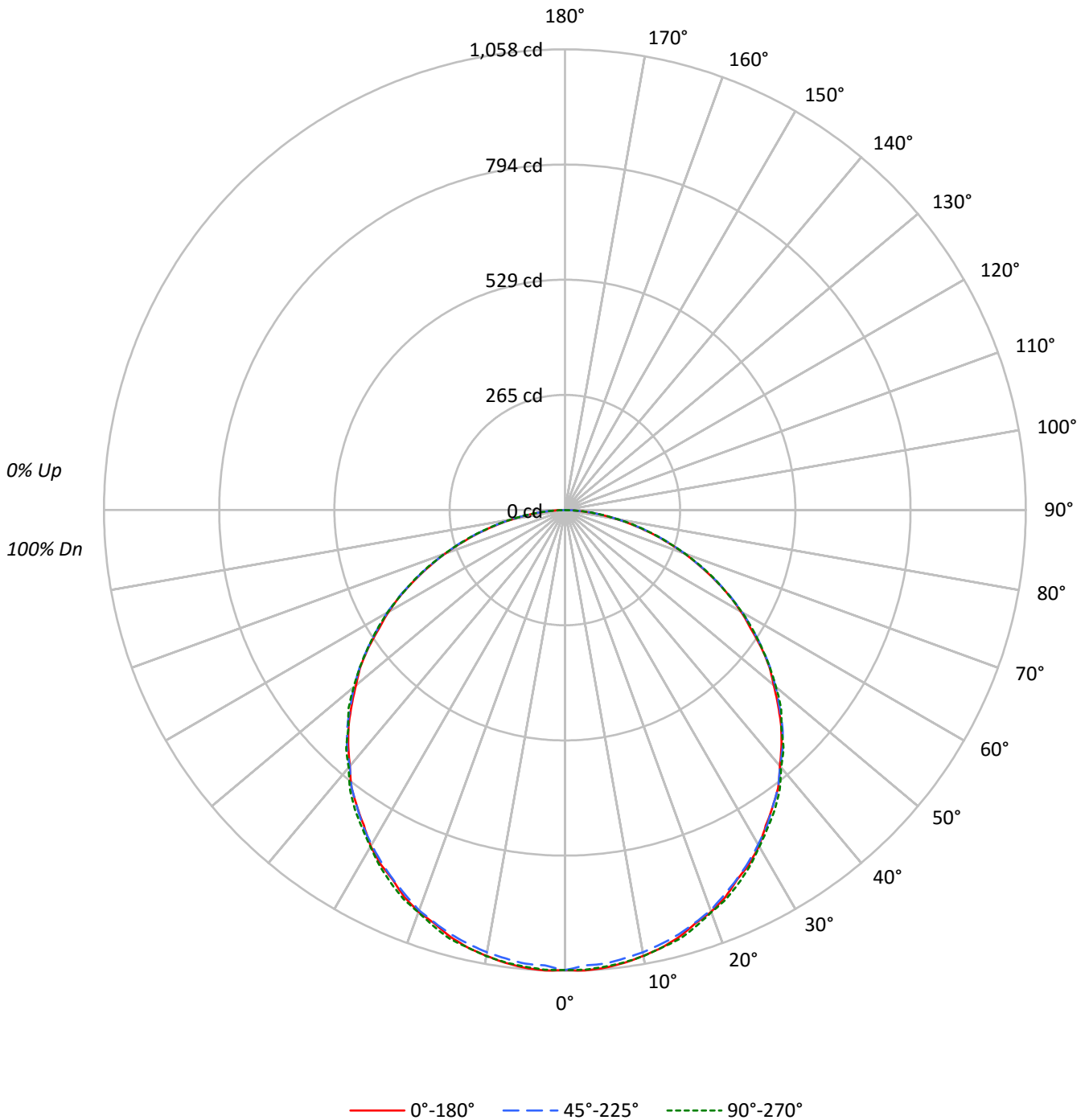
Lumens per Lamp: N/A
Luminaire Lumens: 3037.6 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.34
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°	2842	2842	2842
5°	2850	2824	2843
10°	2840	2817	2842
15°	2826	2810	2841
20°	2811	2800	2815
25°	2779	2776	2806
30°	2769	2757	2775
35°	2732	2732	2759
40°	2697	2699	2712
45°	2671	2688	2673
50°	2620	2644	2650
55°	2580	2592	2589
60°	2514	2531	2527
65°	2422	2430	2438
70°	2305	2311	2316
75°	2132	2152	2158
80°	1912	1942	1951
85°	1562	1643	1680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	3.3
10°-20°	285.8	9.4
20°-30°	433.1	14.3
30°-40°	522.4	17.2
40°-50°	544.2	17.9
50°-60°	493.7	16.3
60°-70°	377.9	12.4
70°-80°	219.4	7.2
80°-90°	61.4	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°	818.7	27.0
0°-40°	1341.1	44.1
0°-60°	2378.9	78.3
0°-90°	3037.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3037.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1055	1051	1046	1051	1052	100
15°	1014	1012	1009	1014	1020	286
25°	936	939	935	942	945	433
35°	832	834	832	837	840	521
45°	702	707	706	710	702	540
55°	550	553	552	554	552	491
65°	380	382	382	382	383	376
75°	205	206	207	209	208	217
85°	51	51	53	54	54	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1056.3	1056.3	1056.3	1056.3	1056.3
2.5°	1058.2	1052.5	1046.8	1055.7	1056.3
5°	1055.0	1051.2	1045.5	1051.2	1052.5
7.5°	1048.7	1043.6	1038.6	1048.1	1047.4
10°	1039.2	1037.3	1031.0	1038.0	1039.9
12.5°	1029.1	1025.9	1020.9	1025.9	1029.1
15°	1014.5	1012.0	1008.8	1014.5	1019.6
17.5°	995.5	996.8	993.6	1000.0	1001.9
20°	981.6	979.7	977.8	982.9	982.9
22.5°	962.0	963.9	956.3	965.2	967.1
25°	936.1	938.6	934.8	942.4	944.9
27.5°	916.4	916.4	912.0	917.7	920.9
30°	891.1	890.5	887.3	891.1	893.0
32.5°	858.8	865.8	862.0	867.7	865.8
35°	831.6	834.2	831.6	836.7	839.9
37.5°	804.4	805.7	803.8	806.9	810.1
40°	767.7	772.1	768.3	774.0	772.1
42.5°	736.1	740.5	740.5	741.8	743.0
45°	701.9	706.9	706.3	709.5	702.5
47.5°	663.9	670.9	667.7	674.0	673.4
50°	625.9	633.5	631.6	630.4	632.9
52.5°	591.8	594.3	593.7	593.7	593.0
55°	550.0	553.2	552.5	553.8	551.9
57.5°	505.7	512.0	511.4	511.4	511.4
60°	467.1	469.6	470.2	469.6	469.6
62.5°	425.3	426.6	427.8	424.7	424.7
65°	380.4	381.6	381.6	382.3	382.9
67.5°	335.4	339.2	337.3	337.3	339.2
70°	293.0	293.7	293.7	293.7	294.3
72.5°	247.5	248.7	251.3	251.9	250.0
75°	205.1	205.7	207.0	208.9	207.6
77.5°	162.7	163.9	165.8	166.5	167.1
80°	123.4	124.7	125.3	127.2	125.9
82.5°	87.3	88.0	88.0	89.2	89.9
85°	50.6	51.3	53.2	54.4	54.4
87.5°	21.5	22.2	21.5	21.5	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)