

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: P298757

Luminaire Tested: **24FPX-64-L840-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: P298757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-179-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24FPX-64-L840-LV1-SWPD1
Description: 2x4 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

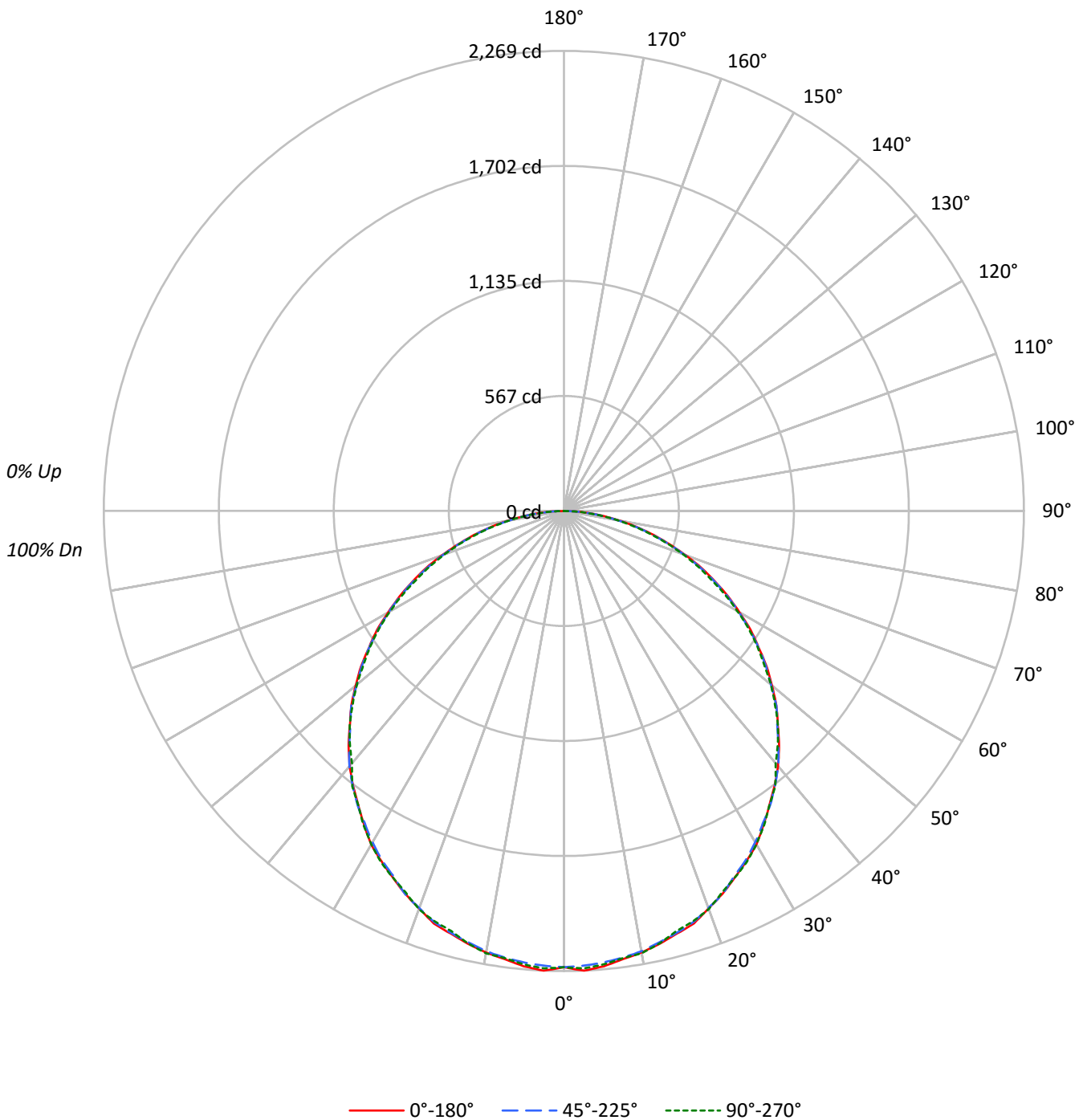
Lumens per Lamp: N/A
Luminaire Lumens: 6471.9 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 65.59
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	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	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°	3028	3028	3028
5°	3045	3019	3032
10°	3020	3013	3026
15°	3006	3000	2987
20°	2987	2984	2992
25°	2962	2951	2962
30°	2953	2932	2950
35°	2904	2914	2904
40°	2886	2890	2853
45°	2839	2832	2843
50°	2807	2791	2791
55°	2750	2746	2733
60°	2692	2682	2661
65°	2619	2607	2559
70°	2515	2492	2462
75°	2389	2350	2310
80°	2227	2154	2125
85°	1956	1868	1839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.6	3.3
10°-20°	607.5	9.4
20°-30°	920.0	14.2
30°-40°	1108.5	17.1
40°-50°	1152.6	17.8
50°-60°	1046.0	16.2
60°-70°	807.5	12.5
70°-80°	478.3	7.4
80°-90°	138.9	2.1
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°	1740.0	26.9
0°-40°	2848.5	44.0
0°-60°	5047.1	78.0
0°-90°	6471.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6471.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2250	2250	2250	2250	2250	
5°	2254	2243	2235	2230	2245	214
15°	2158	2148	2154	2150	2144	610
25°	1995	1997	1988	1989	1995	921
35°	1768	1770	1774	1772	1768	1109
45°	1492	1496	1488	1492	1494	1154
55°	1172	1176	1171	1169	1165	1051
65°	823	823	819	811	804	815
75°	460	456	452	448	444	485
85°	127	121	121	119	119	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2250.4	2250.4	2250.4	2250.4	2250.4
2.5°	2269.3	2240.9	2244.7	2237.2	2258.0
5°	2254.2	2242.8	2235.3	2229.6	2244.7
7.5°	2229.6	2220.1	2222.0	2220.1	2223.9
10°	2210.7	2210.7	2205.0	2199.3	2214.5
12.5°	2186.1	2186.1	2178.5	2172.9	2184.2
15°	2157.7	2148.3	2153.9	2150.2	2144.5
17.5°	2133.1	2121.8	2125.6	2108.6	2121.8
20°	2085.9	2082.1	2084.0	2074.5	2089.6
22.5°	2044.3	2049.9	2046.2	2042.4	2036.7
25°	1995.1	1997.0	1987.5	1989.4	1995.1
27.5°	1947.8	1953.5	1942.1	1942.1	1953.5
30°	1900.5	1893.0	1887.3	1898.6	1898.6
32.5°	1834.4	1826.8	1826.8	1832.5	1838.1
35°	1768.2	1770.1	1773.8	1771.9	1768.2
37.5°	1707.6	1703.9	1709.5	1709.5	1713.3
40°	1643.4	1647.1	1645.2	1637.7	1624.4
42.5°	1571.5	1575.3	1565.8	1575.3	1562.0
45°	1492.1	1495.8	1488.3	1492.1	1494.0
47.5°	1422.1	1418.3	1422.1	1416.4	1412.6
50°	1340.8	1338.9	1333.2	1333.2	1333.2
52.5°	1261.4	1255.7	1255.7	1255.7	1244.3
55°	1172.5	1176.3	1170.6	1168.7	1164.9
57.5°	1093.0	1085.5	1083.6	1083.6	1081.7
60°	1000.4	998.5	996.6	992.8	989.0
62.5°	913.4	905.8	907.7	903.9	898.3
65°	822.6	822.6	818.8	811.3	803.7
67.5°	735.6	731.8	726.2	722.4	714.8
70°	639.2	637.3	633.5	629.7	625.9
72.5°	546.5	544.6	542.7	539.0	535.2
75°	459.5	455.8	452.0	448.2	444.4
77.5°	368.8	366.9	365.0	359.3	359.3
80°	287.4	281.8	278.0	276.1	274.2
82.5°	202.3	202.3	198.6	196.7	196.7
85°	126.7	121.0	121.0	119.1	119.1
87.5°	54.8	53.0	49.2	49.2	49.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)