

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: P298758

Luminaire Tested: **24FPX-64-L850-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: P298758
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-L850-LV1-SWPD1
Description: 2x4 FPX SERIES LED PANEL, 5000K 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

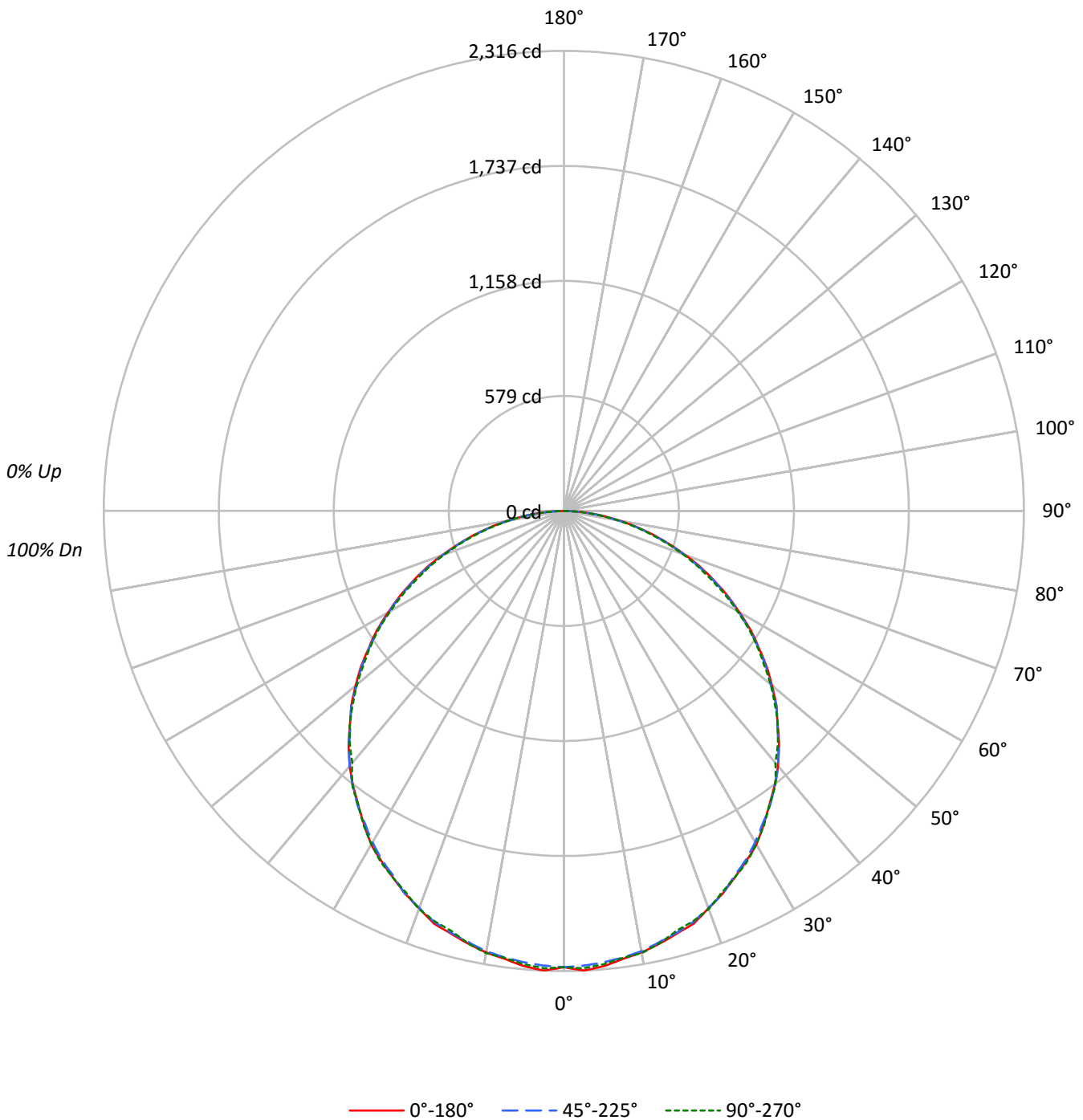
Lumens per Lamp: N/A
Luminaire Lumens: 6604.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 65.9
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°	3090	3090	3090
5°	3107	3081	3094
10°	3082	3074	3087
15°	3067	3062	3048
20°	3048	3045	3053
25°	3022	3011	3022
30°	3013	2992	3010
35°	2964	2973	2964
40°	2945	2949	2911
45°	2897	2890	2901
50°	2864	2848	2848
55°	2807	2802	2788
60°	2747	2737	2716
65°	2672	2660	2611
70°	2566	2543	2513
75°	2438	2398	2358
80°	2273	2198	2168
85°	1996	1907	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.9	3.3
10°-20°	619.9	9.4
20°-30°	938.7	14.2
30°-40°	1131.1	17.1
40°-50°	1176.1	17.8
50°-60°	1067.4	16.2
60°-70°	824.0	12.5
70°-80°	488.1	7.4
80°-90°	141.8	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°	1775.5	26.9
0°-40°	2906.7	44.0
0°-60°	5150.2	78.0
0°-90°	6604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6604.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2296	2296	2296	2296	2296	
5°	2300	2289	2281	2275	2291	218
15°	2202	2192	2198	2194	2188	622
25°	2036	2038	2028	2030	2036	940
35°	1804	1806	1810	1808	1804	1132
45°	1522	1526	1519	1522	1524	1178
55°	1196	1200	1194	1193	1189	1072
65°	839	839	836	828	820	831
75°	469	465	461	457	454	495
85°	129	124	124	122	122	146
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2296.3	2296.3	2296.3	2296.3	2296.3
2.5°	2315.6	2286.7	2290.6	2282.8	2304.1
5°	2300.2	2288.6	2280.9	2275.1	2290.6
7.5°	2275.1	2265.5	2267.4	2265.5	2269.3
10°	2255.8	2255.8	2250.0	2244.2	2259.7
12.5°	2230.7	2230.7	2223.0	2217.2	2228.8
15°	2201.8	2192.1	2197.9	2194.1	2188.3
17.5°	2176.7	2165.1	2169.0	2151.6	2165.1
20°	2128.5	2124.6	2126.5	2116.9	2132.3
22.5°	2086.0	2091.8	2087.9	2084.1	2078.3
25°	2035.8	2037.8	2028.1	2030.0	2035.8
27.5°	1987.6	1993.4	1981.8	1981.8	1993.4
30°	1939.4	1931.6	1925.8	1937.4	1937.4
32.5°	1871.8	1864.1	1864.1	1869.9	1875.7
35°	1804.3	1806.2	1810.1	1808.1	1804.3
37.5°	1742.5	1738.7	1744.5	1744.5	1748.3
40°	1676.9	1680.8	1678.8	1671.1	1657.6
42.5°	1603.6	1607.4	1597.8	1607.4	1593.9
45°	1522.5	1526.4	1518.7	1522.5	1524.5
47.5°	1451.1	1447.3	1451.1	1445.3	1441.5
50°	1368.2	1366.2	1360.4	1360.4	1360.4
52.5°	1287.1	1281.3	1281.3	1281.3	1269.7
55°	1196.4	1200.3	1194.5	1192.6	1188.7
57.5°	1115.4	1107.6	1105.7	1105.7	1103.8
60°	1020.8	1018.9	1017.0	1013.1	1009.2
62.5°	932.0	924.3	926.3	922.4	916.6
65°	839.4	839.4	835.6	827.8	820.1
67.5°	750.7	746.8	741.0	737.1	729.4
70°	652.2	650.3	646.5	642.6	638.7
72.5°	557.7	555.8	553.8	550.0	546.1
75°	468.9	465.1	461.2	457.3	453.5
77.5°	376.3	374.4	372.4	366.6	366.6
80°	293.3	287.5	283.7	281.7	279.8
82.5°	206.5	206.5	202.6	200.7	200.7
85°	129.3	123.5	123.5	121.6	121.6
87.5°	56.0	54.0	50.2	50.2	50.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)