

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: P298689

Luminaire Tested: **24FPX-64-L850-SWPD1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P298689  
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-SWPD1  
Description: 2x4 FPX SERIES LED PANEL, 5000K CCT AND 80CRI  
Light Source: -  
Ballast/Driver: -

**Summary**

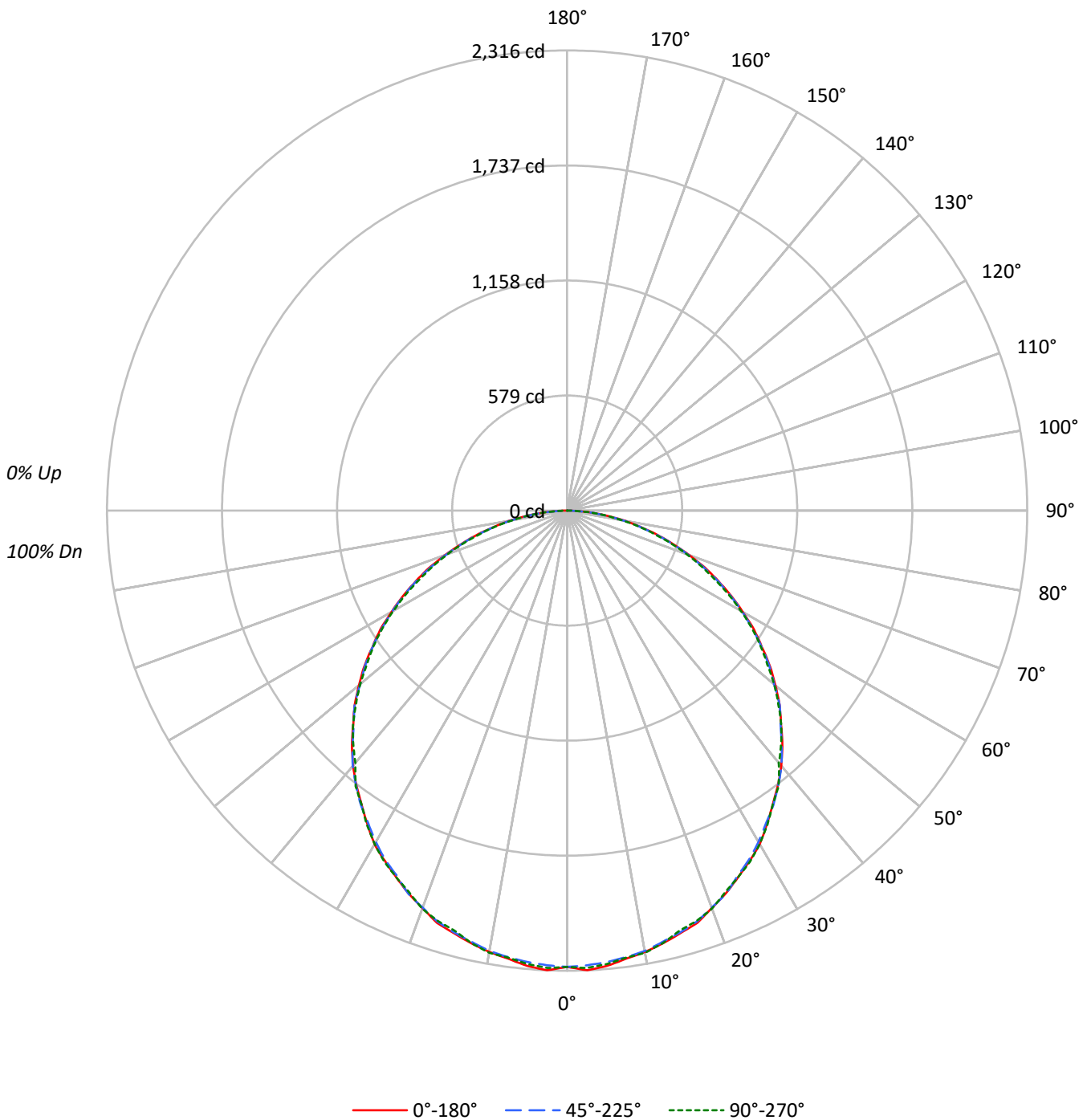
Lumens per Lamp: N/A  
Luminaire Lumens: 6604.0 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 63.6  
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)