

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: P298700

Luminaire Tested: **24FPX-64-L840-HCD-SWPD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P298700
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-HCD-SWPD1
Description: 2x4 FPX SERIES LED PANEL, 4000K CCT AND 80CRI
Light Source: -
Ballast/Driver: -

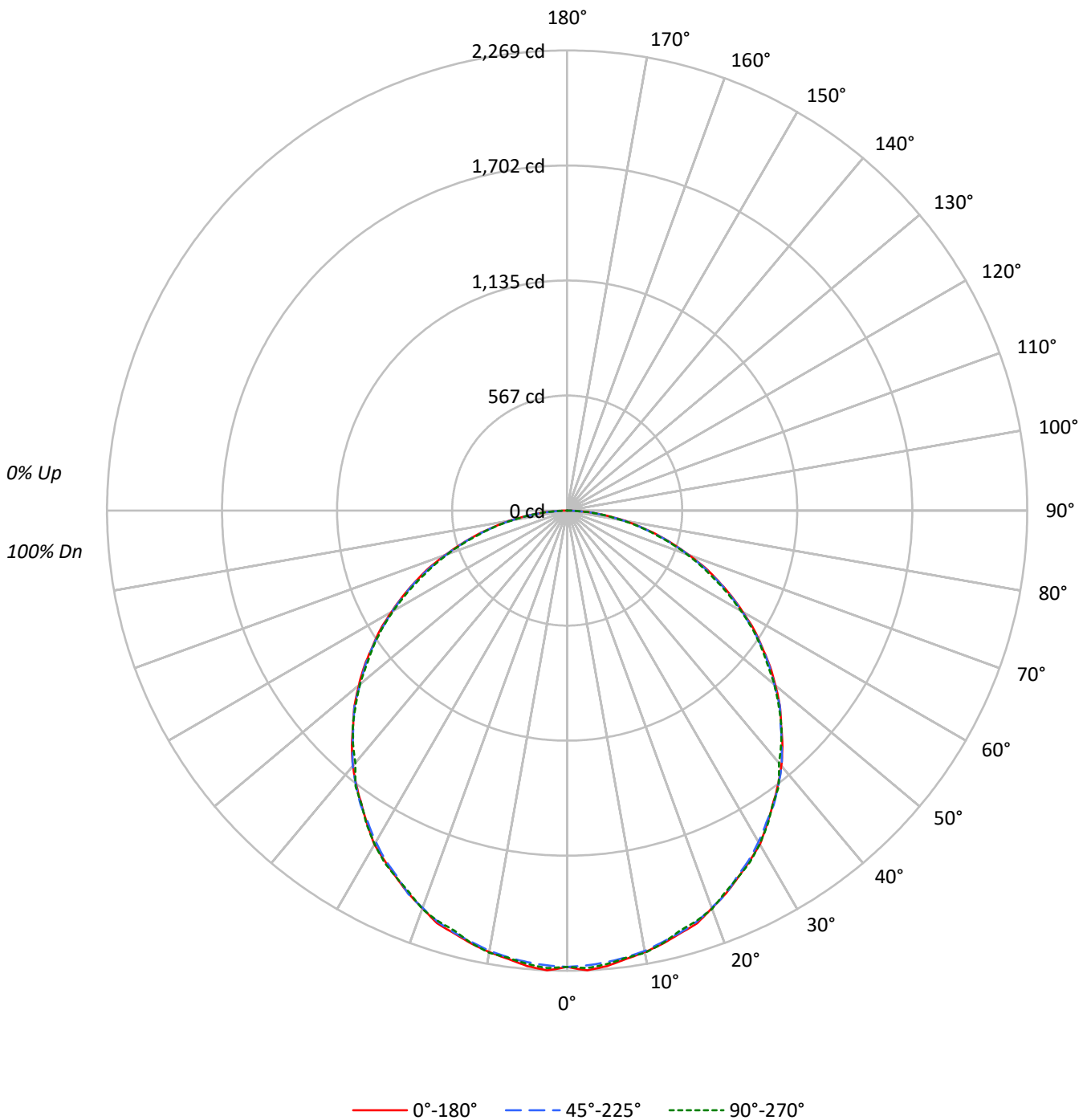
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6471.9 lumens
Efficiency: N/A
Efficacy: 102.3 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): 63.2624071289553
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			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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83	83	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69	69	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58	58	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49	49	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43	43	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37	37	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33	33	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29	29	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24	24	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)