

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: P298680

Luminaire Tested: **24FPX-31-L840-SWPD1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P298680  
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-31-L840-SWPD1  
Description: 2x4 FPX SERIES LED PANEL, 4000K CCT AND 80CRI  
Light Source: -  
Ballast/Driver: -

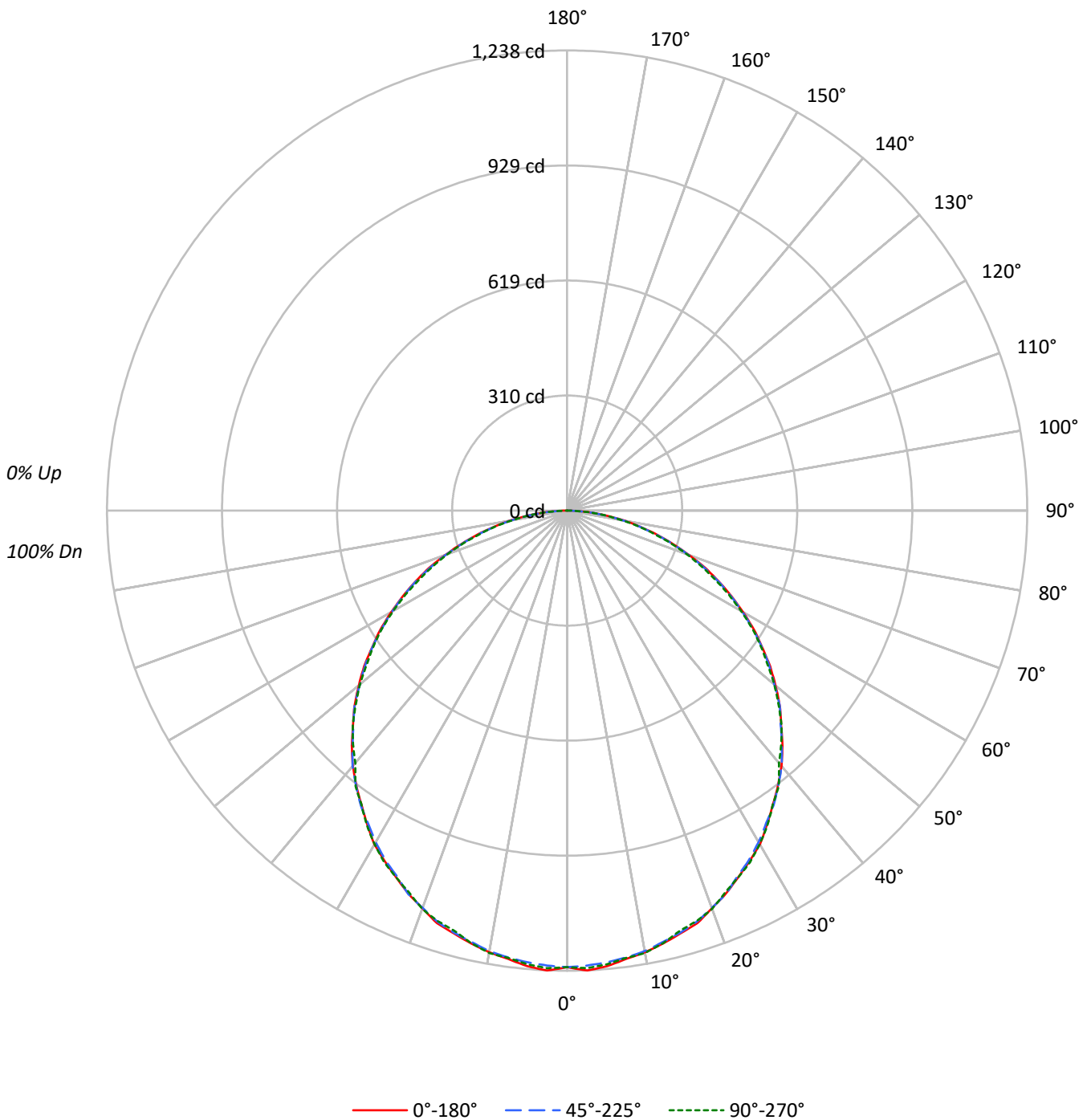
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3532.1 lumens  
Efficiency: N/A  
Efficacy: 121.8 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): 29  
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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1653	1653	1653
5°	1662	1648	1655
10°	1648	1644	1651
15°	1640	1637	1630
20°	1630	1628	1633
25°	1616	1610	1616
30°	1611	1600	1610
35°	1585	1590	1585
40°	1575	1577	1557
45°	1549	1545	1551
50°	1532	1523	1523
55°	1501	1499	1491
60°	1469	1464	1453
65°	1429	1423	1396
70°	1372	1360	1344
75°	1304	1282	1261
80°	1216	1175	1160
85°	1067	1020	1003



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.0	3.3
10°-20°	331.5	9.4
20°-30°	502.1	14.2
30°-40°	605.0	17.1
40°-50°	629.1	17.8
50°-60°	570.9	16.2
60°-70°	440.7	12.5
70°-80°	261.1	7.4
80°-90°	75.8	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°	949.6	26.9
0°-40°	1554.6	44.0
0°-60°	2754.5	78.0
0°-90°	3532.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3532.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1228	1228	1228	1228	1228	
5°	1230	1224	1220	1217	1225	117
15°	1178	1172	1176	1174	1170	333
25°	1089	1090	1085	1086	1089	503
35°	965	966	968	967	965	605
45°	814	816	812	814	815	630
55°	640	642	639	638	636	573
65°	449	449	447	443	439	445
75°	251	249	247	245	242	265
85°	69	66	66	65	65	78
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1228.2	1228.2	1228.2	1228.2	1228.2
2.5°	1238.5	1223.0	1225.1	1220.9	1232.3
5°	1230.2	1224.0	1219.9	1216.8	1225.1
7.5°	1216.8	1211.7	1212.7	1211.7	1213.7
10°	1206.5	1206.5	1203.4	1200.3	1208.6
12.5°	1193.1	1193.1	1188.9	1185.9	1192.0
15°	1177.6	1172.4	1175.5	1173.5	1170.4
17.5°	1164.2	1158.0	1160.0	1150.8	1158.0
20°	1138.4	1136.3	1137.3	1132.2	1140.4
22.5°	1115.7	1118.8	1116.7	1114.6	1111.5
25°	1088.8	1089.9	1084.7	1085.7	1088.8
27.5°	1063.0	1066.1	1059.9	1059.9	1066.1
30°	1037.2	1033.1	1030.0	1036.2	1036.2
32.5°	1001.1	997.0	997.0	1000.1	1003.2
35°	965.0	966.0	968.1	967.1	965.0
37.5°	932.0	929.9	933.0	933.0	935.1
40°	896.9	898.9	897.9	893.8	886.6
42.5°	857.7	859.7	854.6	859.7	852.5
45°	814.3	816.4	812.2	814.3	815.3
47.5°	776.1	774.1	776.1	773.0	771.0
50°	731.7	730.7	727.6	727.6	727.6
52.5°	688.4	685.3	685.3	685.3	679.1
55°	639.9	641.9	638.9	637.8	635.8
57.5°	596.5	592.4	591.4	591.4	590.3
60°	546.0	544.9	543.9	541.8	539.8
62.5°	498.5	494.4	495.4	493.3	490.2
65°	449.0	449.0	446.9	442.8	438.6
67.5°	401.5	399.4	396.3	394.3	390.1
70°	348.8	347.8	345.7	343.7	341.6
72.5°	298.3	297.2	296.2	294.1	292.1
75°	250.8	248.7	246.7	244.6	242.5
77.5°	201.3	200.2	199.2	196.1	196.1
80°	156.9	153.8	151.7	150.7	149.7
82.5°	110.4	110.4	108.4	107.3	107.3
85°	69.1	66.1	66.1	65.0	65.0
87.5°	29.9	28.9	26.8	26.8	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)