

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: P298697

Luminaire Tested: **24FPX-47-L840-HCD-SWPD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P298697
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-47-L840-HCD-SWPD1
Description: 2x4 FPX SERIES LED PANEL, 4000K CCT AND 80CRI
Light Source: -
Ballast/Driver: -

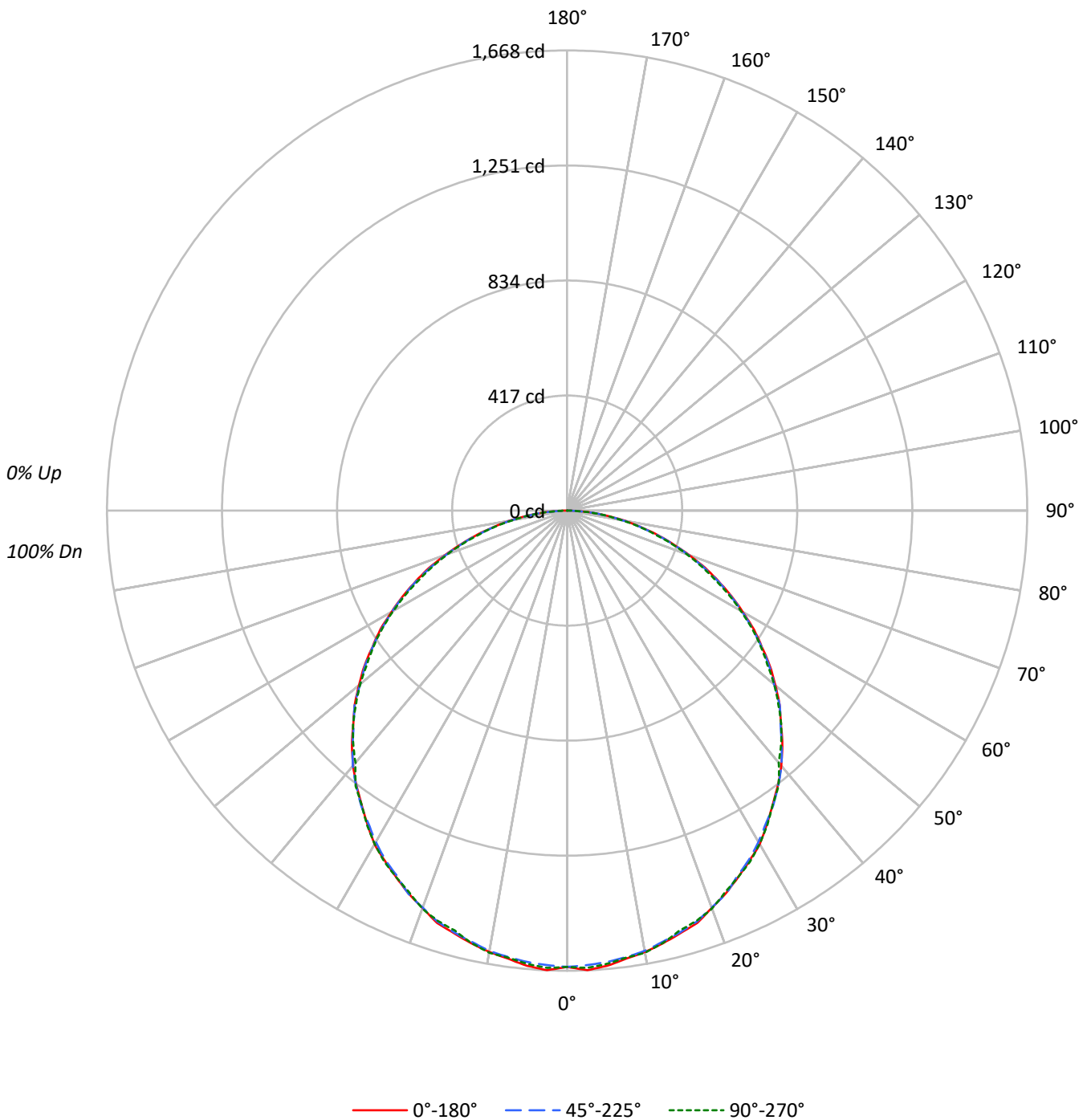
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4755.8 lumens
Efficiency: N/A
Efficacy: 110.2 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): 43.1723722267062
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°	2225	2225	2225
5°	2237	2219	2228
10°	2219	2214	2223
15°	2209	2205	2195
20°	2195	2193	2199
25°	2177	2168	2177
30°	2170	2155	2168
35°	2134	2141	2134
40°	2121	2124	2097
45°	2086	2081	2089
50°	2062	2051	2051
55°	2021	2018	2008
60°	1978	1971	1956
65°	1925	1916	1880
70°	1848	1831	1810
75°	1756	1726	1698
80°	1636	1583	1561
85°	1437	1372	1351



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	3.3
10°-20°	446.4	9.4
20°-30°	676.0	14.2
30°-40°	814.6	17.1
40°-50°	847.0	17.8
50°-60°	768.7	16.2
60°-70°	593.4	12.5
70°-80°	351.5	7.4
80°-90°	102.1	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°	1278.6	26.9
0°-40°	2093.2	44.0
0°-60°	3708.8	78.0
0°-90°	4755.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4755.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1656	1648	1643	1638	1650	157
15°	1586	1579	1583	1580	1576	448
25°	1466	1468	1460	1462	1466	677
35°	1299	1301	1304	1302	1299	815
45°	1096	1099	1094	1096	1098	848
55°	862	864	860	859	856	772
65°	604	604	602	596	591	599
75°	338	335	332	329	327	356
85°	93	89	89	88	88	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1653.7	1653.7	1653.7	1653.7	1653.7
2.5°	1667.6	1646.7	1649.5	1643.9	1659.2
5°	1656.4	1648.1	1642.6	1638.4	1649.5
7.5°	1638.4	1631.4	1632.8	1631.4	1634.2
10°	1624.5	1624.5	1620.3	1616.1	1627.3
12.5°	1606.4	1606.4	1600.9	1596.7	1605.0
15°	1585.6	1578.6	1582.8	1580.0	1575.8
17.5°	1567.5	1559.2	1562.0	1549.4	1559.2
20°	1532.8	1530.0	1531.4	1524.4	1535.5
22.5°	1502.2	1506.4	1503.6	1500.8	1496.6
25°	1466.1	1467.5	1460.5	1461.9	1466.1
27.5°	1431.3	1435.5	1427.2	1427.2	1435.5
30°	1396.6	1391.0	1386.9	1395.2	1395.2
32.5°	1347.9	1342.4	1342.4	1346.6	1350.7
35°	1299.3	1300.7	1303.5	1302.1	1299.3
37.5°	1254.8	1252.1	1256.2	1256.2	1259.0
40°	1207.6	1210.4	1209.0	1203.4	1193.7
42.5°	1154.8	1157.6	1150.6	1157.6	1147.8
45°	1096.4	1099.2	1093.6	1096.4	1097.8
47.5°	1045.0	1042.2	1045.0	1040.8	1038.1
50°	985.3	983.9	979.7	979.7	979.7
52.5°	926.9	922.7	922.7	922.7	914.4
55°	861.6	864.4	860.2	858.8	856.0
57.5°	803.2	797.7	796.3	796.3	794.9
60°	735.1	733.7	732.3	729.6	726.8
62.5°	671.2	665.6	667.0	664.2	660.1
65°	604.5	604.5	601.7	596.2	590.6
67.5°	540.6	537.8	533.6	530.8	525.3
70°	469.7	468.3	465.5	462.7	460.0
72.5°	401.6	400.2	398.8	396.0	393.3
75°	337.7	334.9	332.1	329.3	326.6
77.5°	271.0	269.6	268.2	264.0	264.0
80°	211.2	207.1	204.3	202.9	201.5
82.5°	148.7	148.7	145.9	144.5	144.5
85°	93.1	88.9	88.9	87.5	87.5
87.5°	40.3	38.9	36.1	36.1	36.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)