

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: P298754

Luminaire Tested: **24FPX-47-L840-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: P298754
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-LV1-SWPD1
Description: 2x4 FPX SERIES LED PANEL, 4000K 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

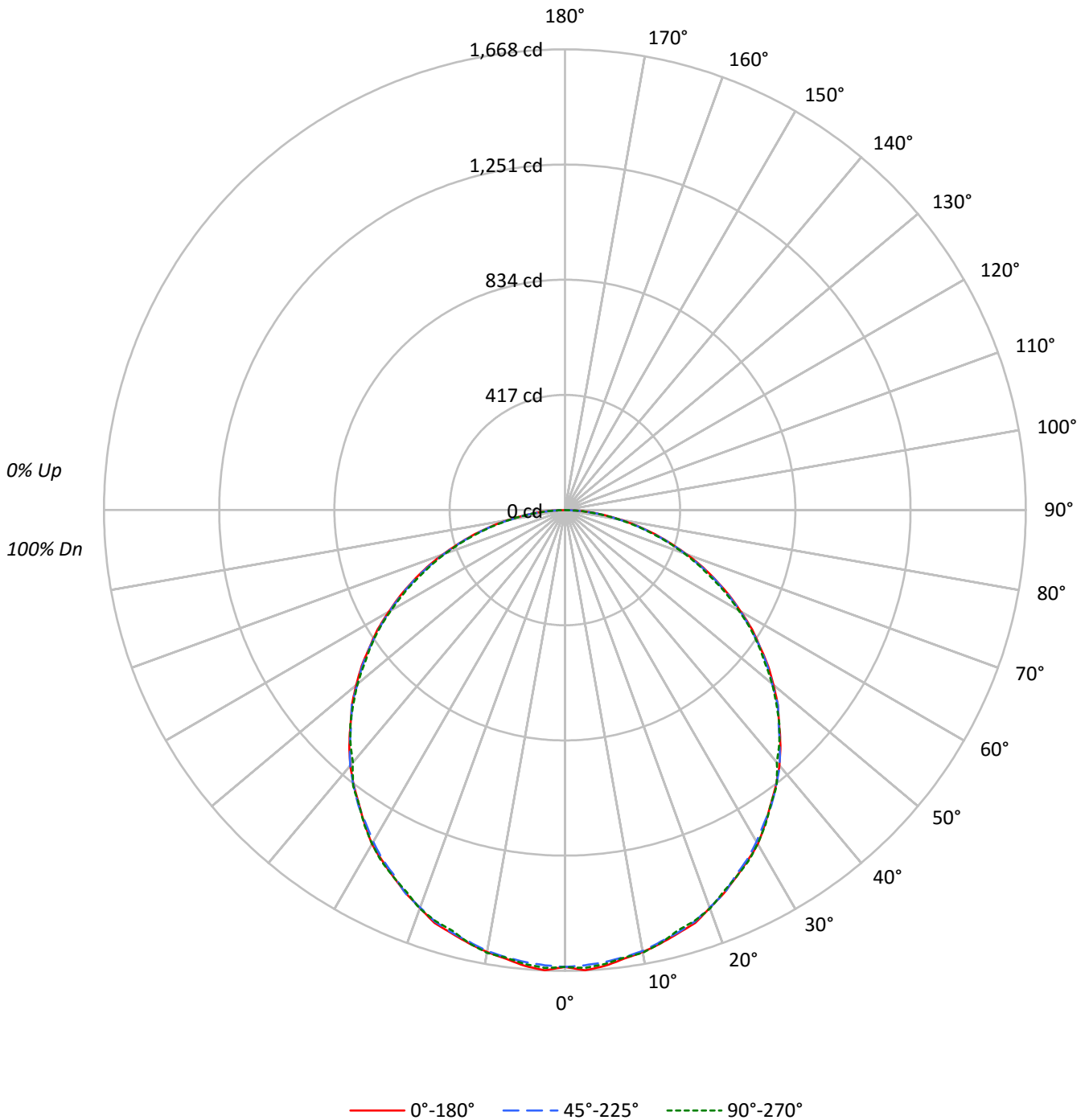
Lumens per Lamp: N/A
Luminaire Lumens: 4755.8 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.33
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



TEST NUMBER: P298754
CATALOG NUMBER: 24FPX-47-L840-LV1-SWPD1

Luminous Intensity Polar Plot





TEST NUMBER: P298754

CATALOG NUMBER: 24FPX-47-L840-LV1-SWPD1

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



TEST NUMBER: P298754
 CATALOG NUMBER: 24FPX-47-L840-LV1-SWPD1

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	



TEST NUMBER: P298754

CATALOG NUMBER: 24FPX-47-L840-LV1-SWPD1

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)