

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: P298544

Luminaire Tested: **22FPX-42-L850-5LTHD-SWPD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P298544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-179-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22FPX-42-L850-5LTHD-SWPD1
Description: 2x2 FPX SERIES LED PANEL, 5000K CCT AND 80CRI
Light Source: -
Ballast/Driver: -

Summary

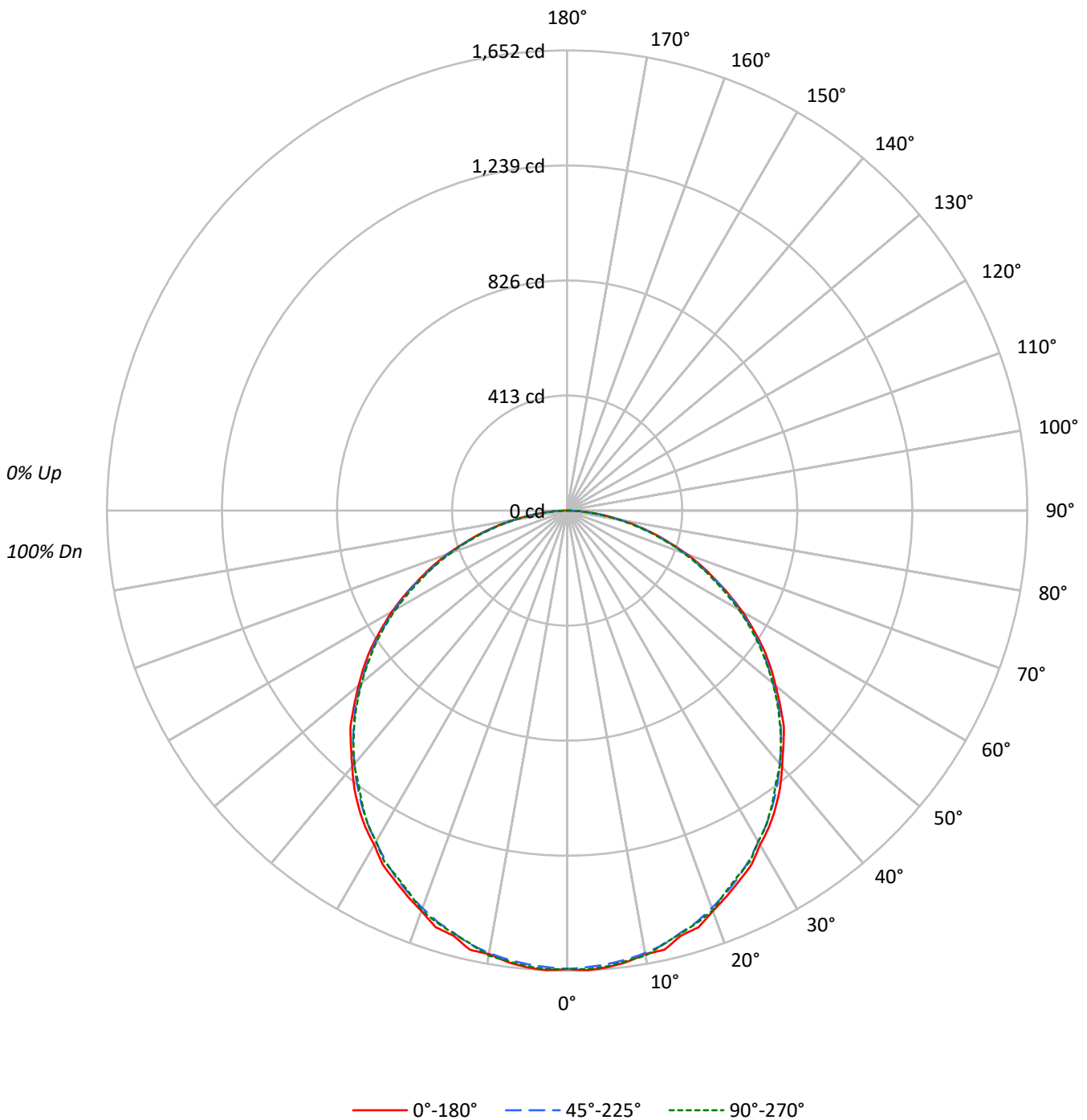
Lumens per Lamp: N/A
Luminaire Lumens: 4681.7 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9793998620807
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: P298544

CATALOG NUMBER: 22FPX-42-L850-5LTHD-SWPD1

Luminous Intensity Polar Plot





TEST NUMBER: P298544

CATALOG NUMBER: 22FPX-42-L850-5LTHD-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	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	98	94	97	94	91	93	91	88	90	88	86	83					83			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
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°	4429	4429	4429
5°	4446	4417	4436
10°	4417	4407	4432
15°	4400	4374	4380
20°	4380	4348	4375
25°	4349	4316	4300
30°	4305	4264	4264
35°	4283	4229	4216
40°	4216	4171	4177
45°	4188	4125	4110
50°	4088	4042	4034
55°	4026	3974	3948
60°	3912	3862	3832
65°	3745	3710	3663
70°	3609	3551	3493
75°	3366	3307	3269
80°	3037	2980	2923
85°	2569	2513	2455



TEST NUMBER: P298544

CATALOG NUMBER: 22FPX-42-L850-5LTHD-SWPD1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	3.3
10°-20°	444.9	9.5
20°-30°	671.4	14.3
30°-40°	807.2	17.2
40°-50°	836.5	17.9
50°-60°	756.7	16.2
60°-70°	577.5	12.3
70°-80°	336.7	7.2
80°-90°	95.1	2.0
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°	1271.9	27.2
0°-40°	2079.1	44.4
0°-60°	3672.3	78.4
0°-90°	4681.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4681.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1646	1646	1646	1646	1646	
5°	1646	1640	1635	1635	1642	156
15°	1580	1578	1570	1574	1572	448
25°	1465	1465	1454	1454	1448	675
35°	1304	1295	1287	1285	1284	815
45°	1100	1088	1084	1078	1080	845
55°	858	853	847	843	842	765
65°	588	588	583	581	575	584
75°	324	322	318	313	314	342
85°	83	87	81	83	80	96
90°	0	0	0	0	0	



TEST NUMBER: P298544

CATALOG NUMBER: 22FPX-42-L850-5LTHD-SWPD1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1646.0	1646.0	1646.0	1646.0	1646.0
2.5°	1651.6	1642.3	1640.5	1644.2	1647.9
5°	1646.0	1640.5	1635.0	1635.0	1642.3
7.5°	1635.0	1629.4	1625.7	1625.7	1631.3
10°	1616.5	1610.9	1612.8	1612.8	1622.0
12.5°	1614.6	1598.0	1596.1	1598.0	1594.3
15°	1579.5	1577.6	1570.2	1573.9	1572.1
17.5°	1568.4	1557.3	1548.0	1549.9	1551.7
20°	1529.5	1525.8	1518.4	1520.3	1527.7
22.5°	1498.1	1499.9	1487.0	1487.0	1483.3
25°	1464.8	1464.8	1453.7	1453.7	1448.2
27.5°	1433.4	1424.1	1414.9	1416.7	1420.4
30°	1385.3	1381.6	1372.3	1374.2	1372.3
32.5°	1348.3	1346.4	1333.5	1329.8	1333.5
35°	1303.9	1294.6	1287.2	1285.4	1283.5
37.5°	1255.8	1248.4	1239.2	1237.3	1231.8
40°	1200.3	1198.5	1187.4	1189.2	1189.2
42.5°	1148.5	1143.0	1137.4	1133.7	1135.6
45°	1100.4	1087.5	1083.8	1078.3	1080.1
47.5°	1037.6	1032.0	1028.3	1020.9	1022.8
50°	976.5	976.5	965.4	963.6	963.6
52.5°	919.2	915.5	906.3	908.1	902.6
55°	858.2	852.6	847.1	843.4	841.5
57.5°	791.6	786.0	782.3	776.8	776.8
60°	726.9	719.5	717.6	710.2	712.1
62.5°	656.6	654.7	652.9	647.3	641.8
65°	588.1	588.1	582.6	580.7	575.2
67.5°	523.4	519.7	514.2	514.2	510.5
70°	458.7	453.1	451.3	445.7	443.9
72.5°	386.5	386.5	381.0	379.1	379.1
75°	323.7	321.8	318.1	312.6	314.4
77.5°	258.9	257.1	255.2	251.5	249.7
80°	196.0	196.0	192.3	194.2	188.6
82.5°	136.9	138.7	135.0	135.0	131.3
85°	83.2	86.9	81.4	83.2	79.5
87.5°	35.1	35.1	33.3	33.3	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)