

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: P298609

Luminaire Tested: **14FPX-42-L840-HCD-SWPD1**

Issue Date: 3/3/2020



**Test Information**

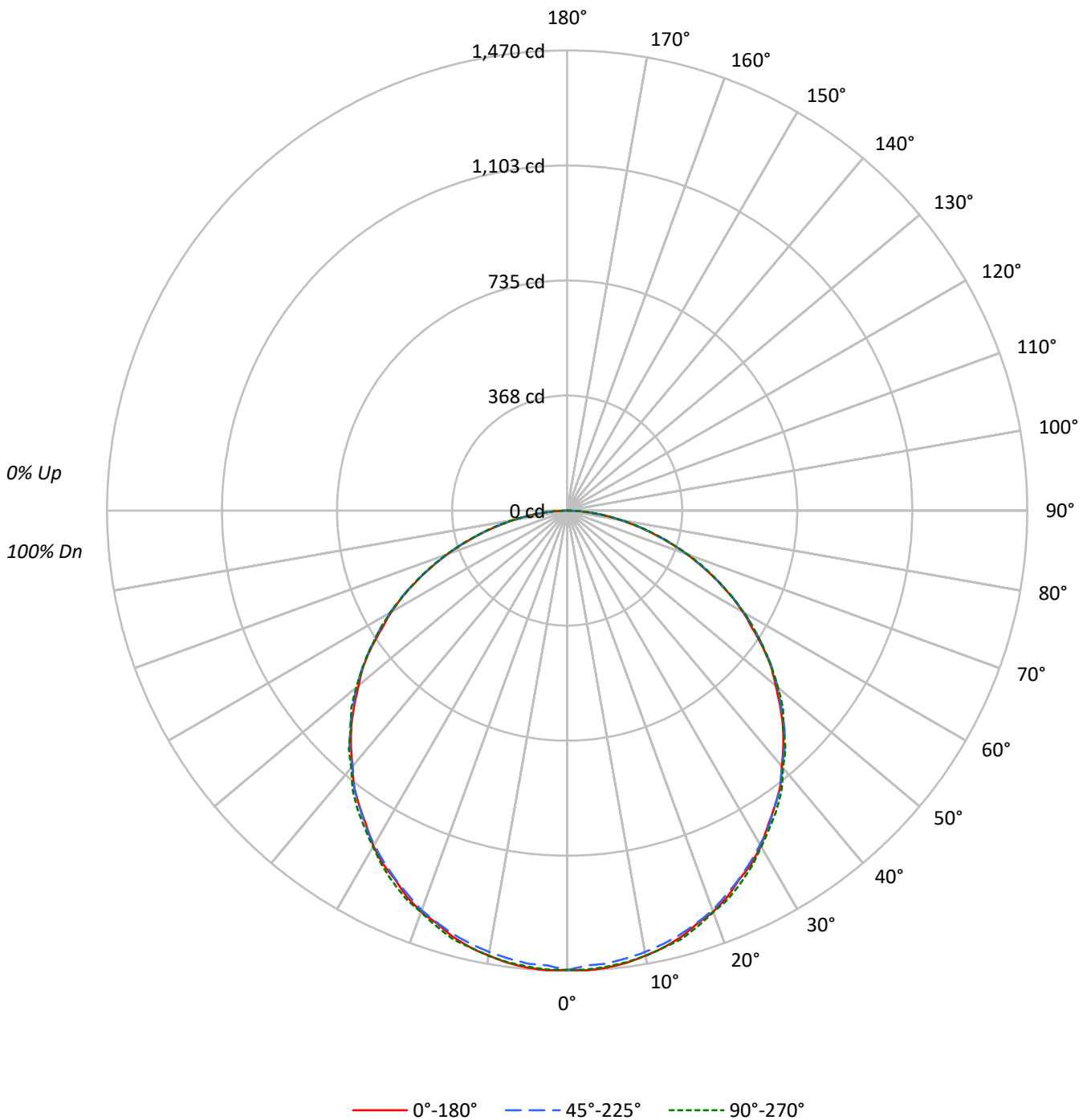
Test Method: LM-79-08  
Report Number: P298609  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-179-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14FPX-42-L840-HCD-SWPD1  
Description: 1x4 FPX SERIES LED PANEL, 4000K CCT AND 80CRI  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4219.8 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 40.5651702482543  
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	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	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°	3949	3949	3949
5°	3959	3924	3950
10°	3945	3913	3947
15°	3926	3904	3946
20°	3905	3890	3910
25°	3861	3856	3898
30°	3846	3830	3855
35°	3795	3795	3833
40°	3746	3750	3768
45°	3710	3734	3714
50°	3640	3674	3681
55°	3584	3601	3597
60°	3492	3516	3511
65°	3365	3376	3387
70°	3203	3210	3216
75°	2962	2989	2999
80°	2656	2698	2712
85°	2171	2282	2334



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.7	3.3
10°-20°	397.0	9.4
20°-30°	601.6	14.3
30°-40°	725.7	17.2
40°-50°	756.0	17.9
50°-60°	685.8	16.3
60°-70°	524.9	12.4
70°-80°	304.8	7.2
80°-90°	85.3	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°	1137.3	27.0
0°-40°	1863.1	44.1
0°-60°	3304.8	78.3
0°-90°	4219.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4219.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1467	1467	1467	1467	1467	
5°	1466	1460	1452	1460	1462	139
15°	1409	1406	1402	1409	1416	397
25°	1300	1304	1299	1309	1313	601
35°	1155	1159	1155	1162	1167	723
45°	975	982	981	986	976	751
55°	764	768	768	769	767	682
65°	528	530	530	531	532	523
75°	285	286	288	290	288	302
85°	70	71	74	76	76	84
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1467.4	1467.4	1467.4	1467.4	1467.4
2.5°	1470.0	1462.1	1454.2	1466.5	1467.4
5°	1465.6	1460.4	1452.5	1460.4	1462.1
7.5°	1456.9	1449.8	1442.8	1456.0	1455.1
10°	1443.7	1441.0	1432.2	1441.9	1444.5
12.5°	1429.6	1425.2	1418.2	1425.2	1429.6
15°	1409.4	1405.9	1401.5	1409.4	1416.4
17.5°	1383.0	1384.8	1380.4	1389.2	1391.8
20°	1363.7	1361.0	1358.4	1365.4	1365.4
22.5°	1336.4	1339.0	1328.5	1340.8	1343.4
25°	1300.4	1303.9	1298.6	1309.1	1312.7
27.5°	1273.1	1273.1	1266.9	1274.9	1279.3
30°	1237.9	1237.1	1232.7	1237.9	1240.6
32.5°	1193.1	1202.8	1197.5	1205.4	1202.8
35°	1155.3	1158.8	1155.3	1162.3	1166.7
37.5°	1117.5	1119.2	1116.6	1121.0	1125.4
40°	1066.5	1072.6	1067.4	1075.3	1072.6
42.5°	1022.5	1028.7	1028.7	1030.4	1032.2
45°	975.0	982.1	981.2	985.6	975.9
47.5°	922.3	932.0	927.6	936.4	935.5
50°	869.5	880.1	877.5	875.7	879.2
52.5°	822.1	825.6	824.7	824.7	823.8
55°	764.0	768.4	767.6	769.3	766.7
57.5°	702.5	711.3	710.4	710.4	710.4
60°	648.9	652.4	653.3	652.4	652.4
62.5°	590.8	592.6	594.3	590.0	590.0
65°	528.4	530.2	530.2	531.0	531.9
67.5°	466.0	471.3	468.6	468.6	471.3
70°	407.1	408.0	408.0	408.0	408.8
72.5°	343.8	345.5	349.0	349.9	347.3
75°	284.9	285.7	287.5	290.1	288.4
77.5°	226.0	227.7	230.4	231.2	232.1
80°	171.4	173.2	174.1	176.7	175.0
82.5°	121.3	122.2	122.2	124.0	124.8
85°	70.3	71.2	73.9	75.6	75.6
87.5°	29.9	30.8	29.9	29.9	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)