

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: P298649

Luminaire Tested: **14FPX-42-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: P298649
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-LV1-SWPD1
Description: 1x4 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

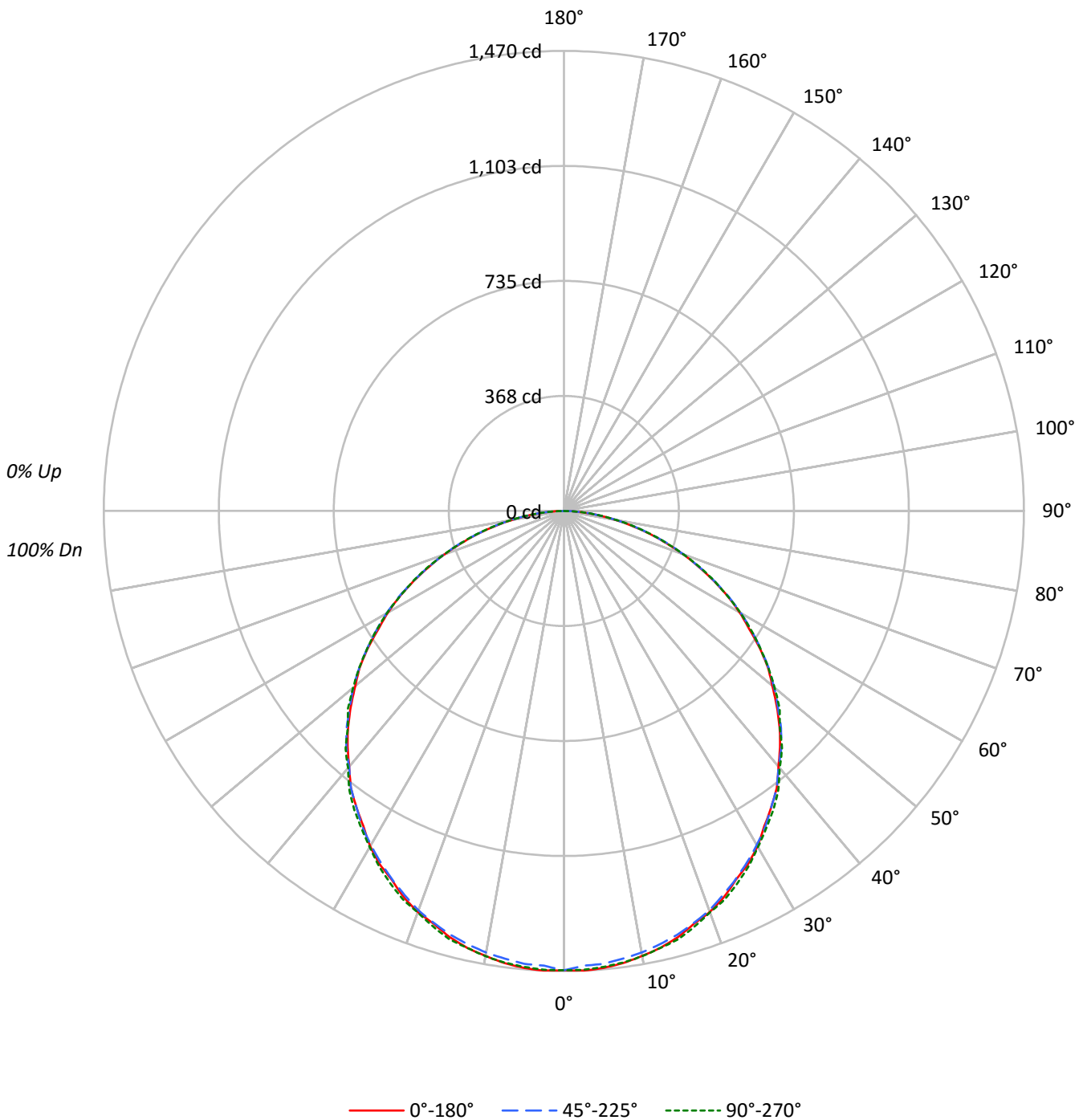
Lumens per Lamp: N/A
Luminaire Lumens: 4219.8 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40.66
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)