

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: P298648

Luminaire Tested: **14FPX-42-L835-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: P298648
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-L835-LV1-SWPD1
Description: 1x4 FPX SERIES LED PANEL, 3500K 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

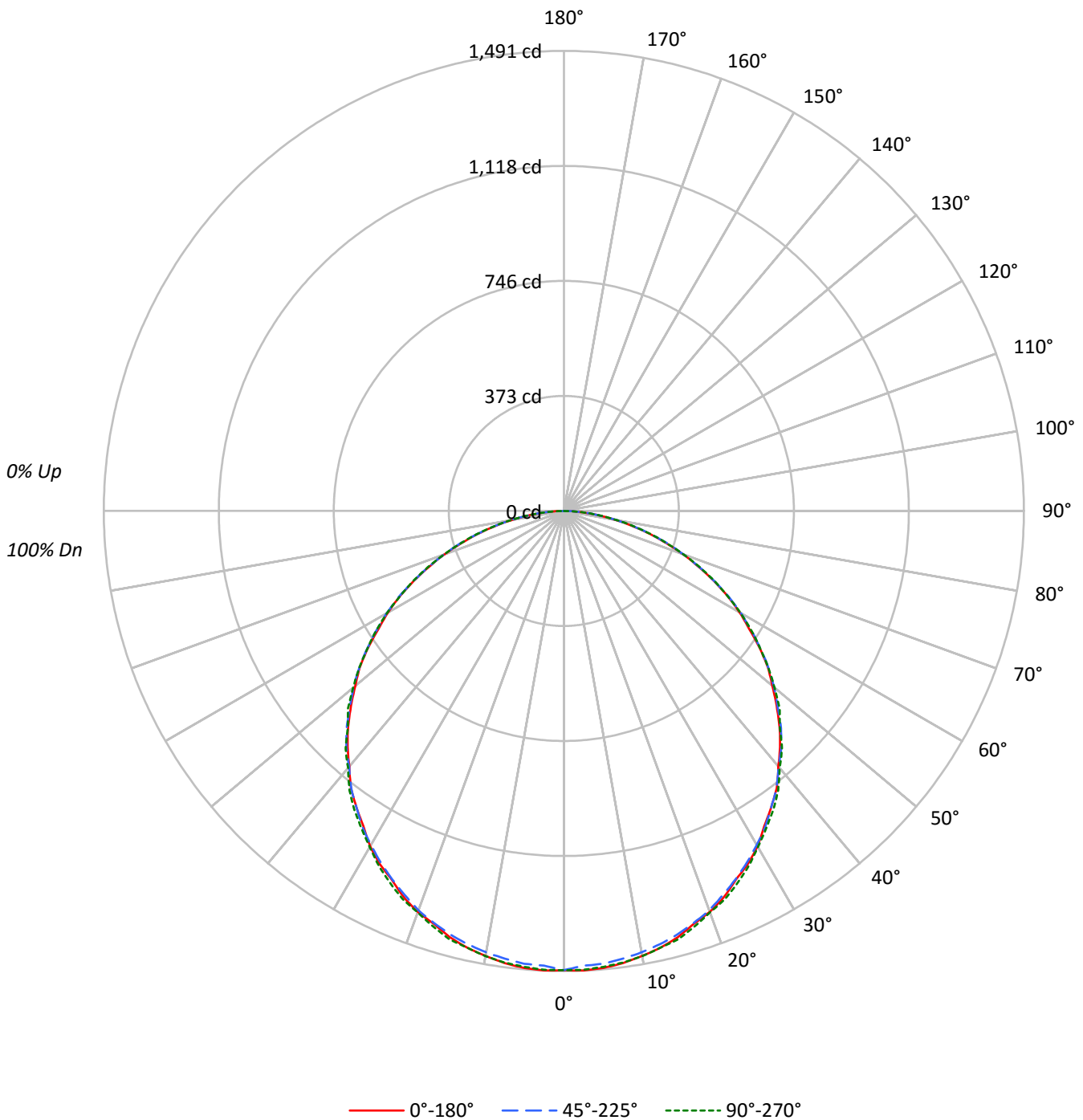
Lumens per Lamp: N/A
Luminaire Lumens: 4279.4 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40.76
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°	4004	4004	4004
5°	4015	3979	4005
10°	4001	3969	4003
15°	3982	3960	4002
20°	3960	3945	3965
25°	3915	3910	3953
30°	3901	3884	3909
35°	3849	3849	3887
40°	3799	3802	3821
45°	3763	3787	3766
50°	3692	3725	3733
55°	3635	3652	3648
60°	3541	3566	3561
65°	3412	3424	3435
70°	3248	3255	3262
75°	3004	3032	3041
80°	2695	2735	2749
85°	2201	2313	2368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	3.3
10°-20°	402.6	9.4
20°-30°	610.1	14.3
30°-40°	736.0	17.2
40°-50°	766.6	17.9
50°-60°	695.5	16.3
60°-70°	532.3	12.4
70°-80°	309.1	7.2
80°-90°	86.5	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°	1153.4	27.0
0°-40°	1889.4	44.2
0°-60°	3351.5	78.3
0°-90°	4279.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4279.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1488	1488	1488	1488	1488	
5°	1486	1481	1473	1481	1483	141
15°	1429	1426	1421	1429	1436	403
25°	1319	1322	1317	1328	1331	610
35°	1172	1175	1172	1179	1183	733
45°	989	996	995	1000	990	761
55°	775	779	778	780	778	691
65°	536	538	538	538	539	530
75°	289	290	292	294	292	306
85°	71	72	75	77	77	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1488.1	1488.1	1488.1	1488.1	1488.1
2.5°	1490.8	1482.8	1474.8	1487.2	1488.1
5°	1486.4	1481.0	1473.0	1481.0	1482.8
7.5°	1477.4	1470.3	1463.2	1476.5	1475.7
10°	1464.1	1461.4	1452.5	1462.3	1465.0
12.5°	1449.8	1445.3	1438.2	1445.3	1449.8
15°	1429.3	1425.7	1421.3	1429.3	1436.4
17.5°	1402.5	1404.3	1399.9	1408.8	1411.5
20°	1382.9	1380.2	1377.6	1384.7	1384.7
22.5°	1355.3	1358.0	1347.3	1359.7	1362.4
25°	1318.7	1322.3	1316.9	1327.6	1331.2
27.5°	1291.1	1291.1	1284.8	1292.9	1297.3
30°	1255.4	1254.5	1250.1	1255.4	1258.1
32.5°	1209.9	1219.8	1214.4	1222.4	1219.8
35°	1171.6	1175.2	1171.6	1178.7	1183.2
37.5°	1133.3	1135.0	1132.4	1136.8	1141.3
40°	1081.6	1087.8	1082.4	1090.5	1087.8
42.5°	1037.0	1043.2	1043.2	1045.0	1046.8
45°	988.8	996.0	995.1	999.5	989.7
47.5°	935.3	945.1	940.7	949.6	948.7
50°	881.8	892.5	889.8	888.1	891.6
52.5°	833.7	837.2	836.4	836.4	835.5
55°	774.8	779.3	778.4	780.2	777.5
57.5°	712.4	721.3	720.4	720.4	720.4
60°	658.0	661.6	662.5	661.6	661.6
62.5°	599.2	601.0	602.7	598.3	598.3
65°	535.9	537.7	537.7	538.5	539.4
67.5°	472.6	477.9	475.2	475.2	477.9
70°	412.8	413.7	413.7	413.7	414.6
72.5°	348.6	350.4	354.0	354.9	352.2
75°	288.9	289.8	291.6	294.2	292.5
77.5°	229.1	230.9	233.6	234.5	235.4
80°	173.9	175.7	176.5	179.2	177.4
82.5°	123.0	123.9	123.9	125.7	126.6
85°	71.3	72.2	74.9	76.7	76.7
87.5°	30.3	31.2	30.3	30.3	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)