

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: P298599

Luminaire Tested: **14FPX-42-L835-SWPD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P298599
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-SWPD1
Description: 1x4 FPX SERIES LED PANEL, 3500K CCT AND 80CRI
Light Source: -
Ballast/Driver: -

Summary

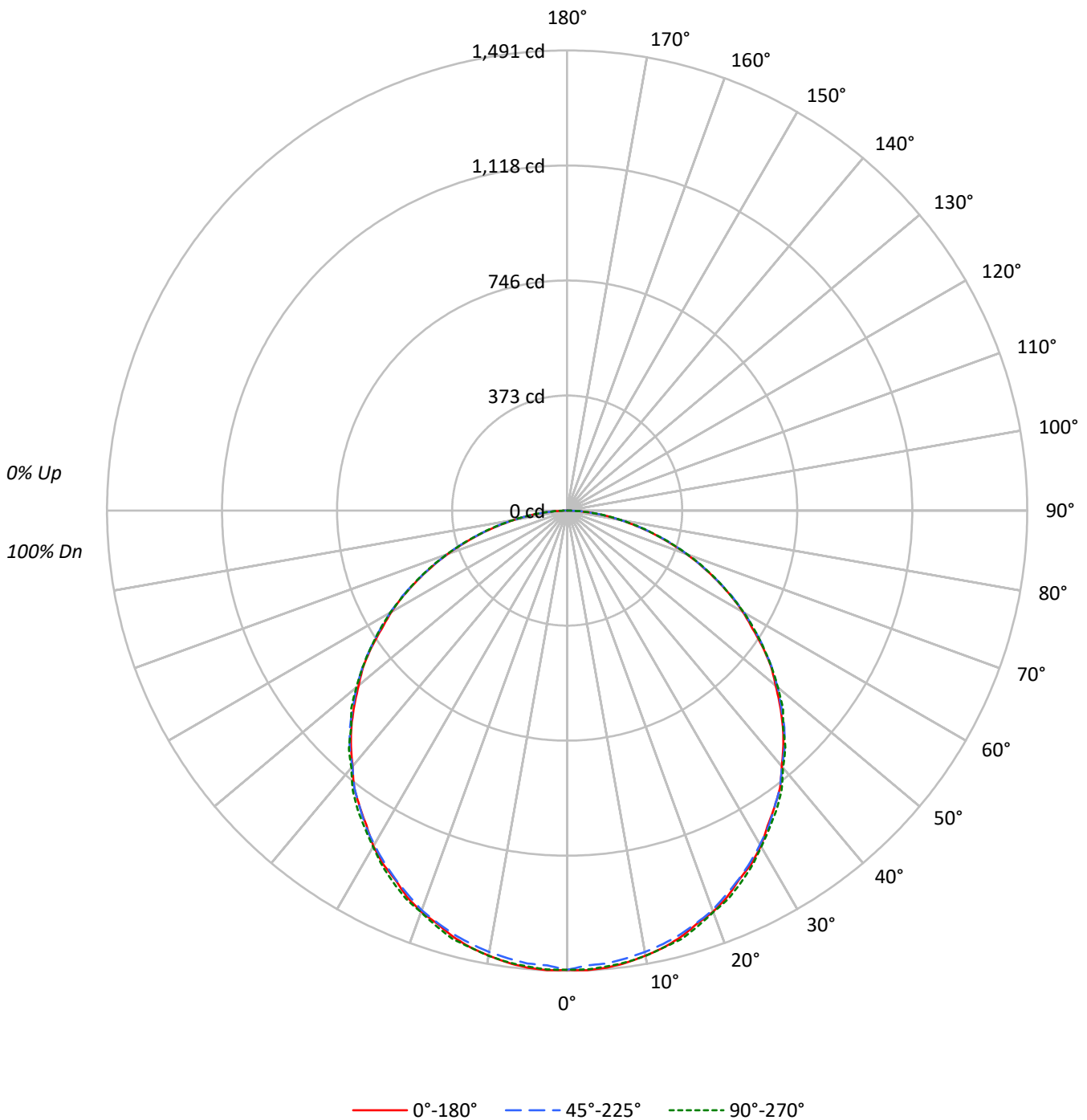
Lumens per Lamp: N/A
Luminaire Lumens: 4279.4 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 39.5
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)