

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: P298674

Luminaire Tested: **14FPX-42-L830-LH-SWPD1**

Issue Date: 3/3/2020



**Test Information**

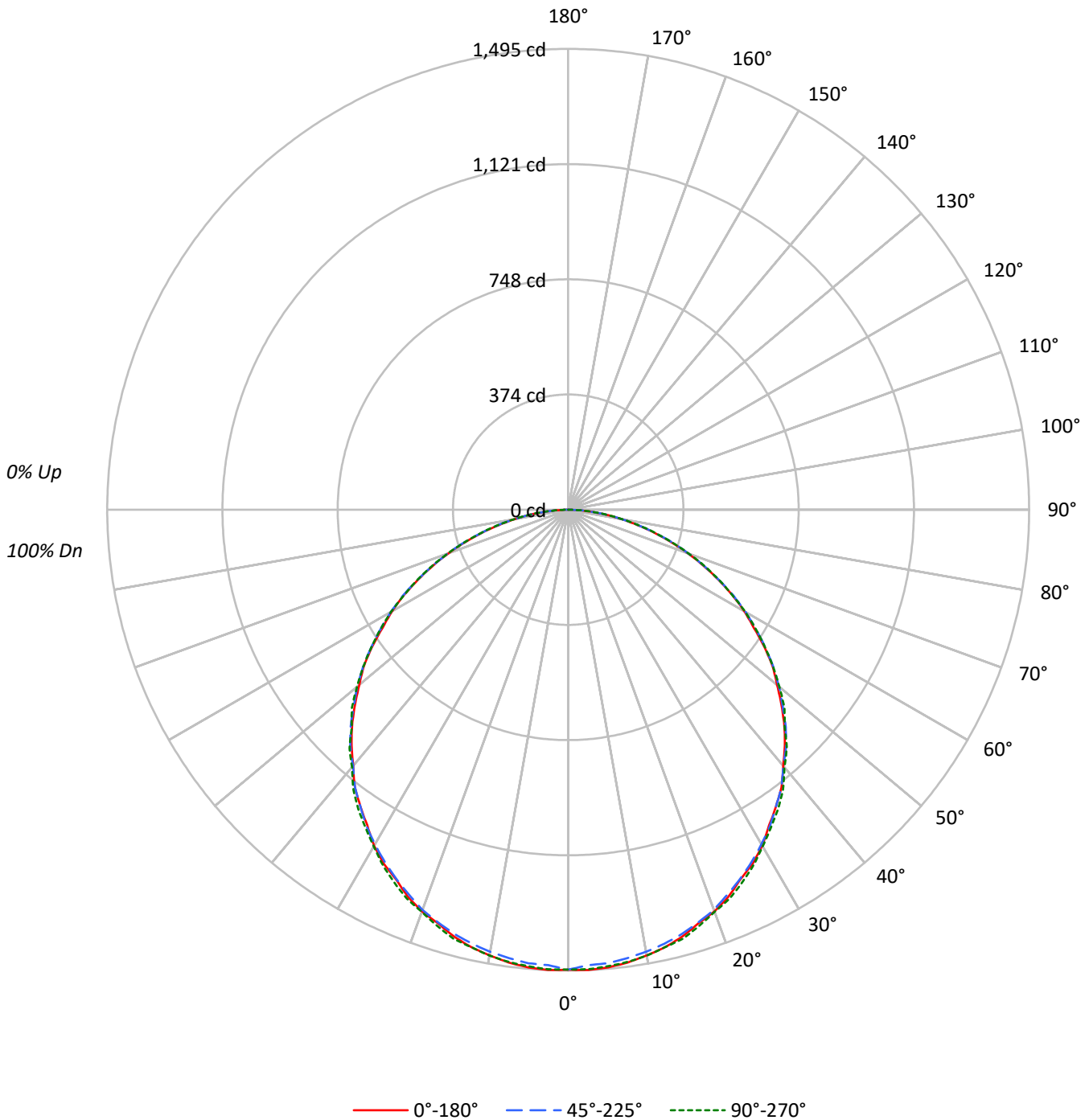
Test Method: LM-79-08  
Report Number: P298674  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-179-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14FPX-42-L830-LH-SWPD1  
Description: 1x4 FPX SERIES LED PANEL, 3000K CCT AND 80CRI  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4290.9 lumens  
Efficiency: N/A  
Efficacy: 102.2 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): 41.9984752688238  
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: P298674  
CATALOG NUMBER: 14FPX-42-L830-LH-SWPD1

### Luminous Intensity Polar Plot





TEST NUMBER: P298674

CATALOG NUMBER: 14FPX-42-L830-LH-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	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°	4015	4015	4015
5°	4026	3989	4016
10°	4011	3980	4014
15°	3992	3970	4013
20°	3971	3956	3976
25°	3926	3921	3963
30°	3911	3895	3920
35°	3859	3859	3897
40°	3810	3813	3831
45°	3773	3797	3777
50°	3702	3735	3743
55°	3645	3662	3658
60°	3551	3575	3570
65°	3421	3433	3444
70°	3257	3264	3271
75°	3012	3040	3048
80°	2701	2743	2757
85°	2208	2319	2374



TEST NUMBER: P298674

CATALOG NUMBER: 14FPX-42-L830-LH-SWPD1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.0	3.3
10°-20°	403.7	9.4
20°-30°	611.8	14.3
30°-40°	738.0	17.2
40°-50°	768.7	17.9
50°-60°	697.4	16.3
60°-70°	533.8	12.4
70°-80°	309.9	7.2
80°-90°	86.8	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°	1156.5	27.0
0°-40°	1894.5	44.2
0°-60°	3360.5	78.3
0°-90°	4290.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4290.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1492	1492	1492	1492	1492	
5°	1490	1485	1477	1485	1487	142
15°	1433	1430	1425	1433	1440	404
25°	1322	1326	1320	1331	1335	611
35°	1175	1178	1175	1182	1186	735
45°	992	999	998	1002	992	763
55°	777	781	780	782	780	693
65°	537	539	539	540	541	532
75°	290	291	292	295	293	307
85°	72	72	75	77	77	85
90°	0	0	0	0	0	



TEST NUMBER: P298674

CATALOG NUMBER: 14FPX-42-L830-LH-SWPD1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1492.1	1492.1	1492.1	1492.1	1492.1
2.5°	1494.8	1486.8	1478.7	1491.3	1492.1
5°	1490.4	1485.0	1476.9	1485.0	1486.8
7.5°	1481.4	1474.3	1467.1	1480.5	1479.6
10°	1468.0	1465.3	1456.4	1466.2	1468.9
12.5°	1453.7	1449.2	1442.1	1449.2	1453.7
15°	1433.1	1429.6	1425.1	1433.1	1440.3
17.5°	1406.3	1408.1	1403.6	1412.6	1415.3
20°	1386.7	1384.0	1381.3	1388.4	1388.4
22.5°	1358.9	1361.6	1350.9	1363.4	1366.1
25°	1322.3	1325.9	1320.5	1331.2	1334.8
27.5°	1294.6	1294.6	1288.3	1296.4	1300.8
30°	1258.8	1257.9	1253.4	1258.8	1261.5
32.5°	1213.2	1223.0	1217.7	1225.7	1223.0
35°	1174.8	1178.3	1174.8	1181.9	1186.4
37.5°	1136.3	1138.1	1135.4	1139.9	1144.4
40°	1084.5	1090.7	1085.4	1093.4	1090.7
42.5°	1039.8	1046.0	1046.0	1047.8	1049.6
45°	991.5	998.6	997.7	1002.2	992.4
47.5°	937.8	947.7	943.2	952.1	951.3
50°	884.2	894.9	892.2	890.5	894.0
52.5°	835.9	839.5	838.6	838.6	837.7
55°	776.9	781.4	780.5	782.3	779.6
57.5°	714.3	723.3	722.4	722.4	722.4
60°	659.8	663.4	664.3	663.4	663.4
62.5°	600.8	602.6	604.4	599.9	599.9
65°	537.3	539.1	539.1	540.0	540.9
67.5°	473.8	479.2	476.5	476.5	479.2
70°	413.9	414.8	414.8	414.8	415.7
72.5°	349.6	351.4	354.9	355.8	353.1
75°	289.7	290.6	292.4	295.0	293.2
77.5°	229.8	231.6	234.2	235.1	236.0
80°	174.3	176.1	177.0	179.7	177.9
82.5°	123.4	124.3	124.3	126.1	127.0
85°	71.5	72.4	75.1	76.9	76.9
87.5°	30.4	31.3	30.4	30.4	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)