

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: P298485

Luminaire Tested: **22FPX-21-L830-HCD-SWPD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P298485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-179-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22FPX-21-L830-HCD-SWPD1
Description: 2x2 FPX SERIES LED PANEL, 3000K CCT AND 80CRI
Light Source: -
Ballast/Driver: -

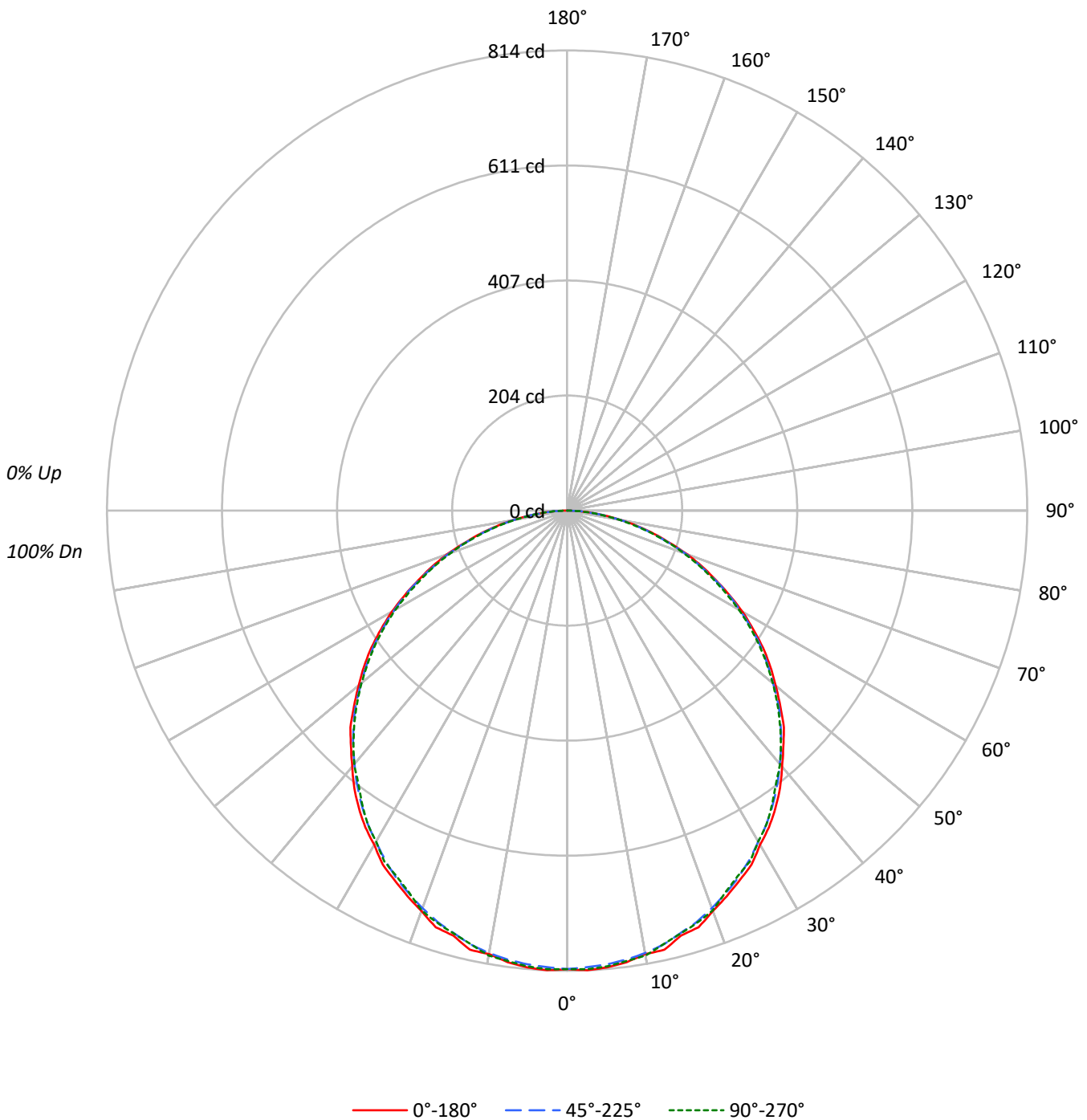
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2307.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6043404497278
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: P298485
CATALOG NUMBER: 22FPX-21-L830-HCD-SWPD1

Luminous Intensity Polar Plot





TEST NUMBER: P298485

CATALOG NUMBER: 22FPX-21-L830-HCD-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	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
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°	2183	2183	2183
5°	2191	2176	2186
10°	2176	2172	2184
15°	2168	2156	2158
20°	2158	2143	2156
25°	2143	2127	2119
30°	2121	2101	2101
35°	2111	2084	2078
40°	2078	2055	2059
45°	2064	2033	2025
50°	2015	1991	1988
55°	1984	1958	1946
60°	1928	1903	1889
65°	1845	1828	1805
70°	1778	1750	1721
75°	1658	1630	1611
80°	1497	1469	1441
85°	1266	1238	1210



TEST NUMBER: P298485

CATALOG NUMBER: 22FPX-21-L830-HCD-SWPD1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	3.3
10°-20°	219.2	9.5
20°-30°	330.8	14.3
30°-40°	397.8	17.2
40°-50°	412.2	17.9
50°-60°	372.9	16.2
60°-70°	284.6	12.3
70°-80°	165.9	7.2
80°-90°	46.9	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°	626.7	27.2
0°-40°	1024.5	44.4
0°-60°	1809.6	78.4
0°-90°	2307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	811	811	811	811	811	
5°	811	808	806	806	809	77
15°	778	777	774	776	775	221
25°	722	722	716	716	714	333
35°	642	638	634	633	632	401
45°	542	536	534	531	532	416
55°	423	420	417	416	415	377
65°	290	290	287	286	283	288
75°	160	159	157	154	155	168
85°	41	43	40	41	39	47
90°	0	0	0	0	0	



TEST NUMBER: P298485

CATALOG NUMBER: 22FPX-21-L830-HCD-SWPD1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	811.1	811.1	811.1	811.1	811.1
2.5°	813.9	809.3	808.4	810.2	812.0
5°	811.1	808.4	805.7	805.7	809.3
7.5°	805.7	802.9	801.1	801.1	803.8
10°	796.5	793.8	794.7	794.7	799.3
12.5°	795.6	787.4	786.5	787.4	785.6
15°	778.3	777.4	773.8	775.6	774.7
17.5°	772.8	767.4	762.8	763.7	764.6
20°	753.7	751.9	748.2	749.2	752.8
22.5°	738.2	739.1	732.7	732.7	730.9
25°	721.8	721.8	716.3	716.3	713.6
27.5°	706.3	701.8	697.2	698.1	699.9
30°	682.6	680.8	676.2	677.2	676.2
32.5°	664.4	663.5	657.1	655.3	657.1
35°	642.5	638.0	634.3	633.4	632.5
37.5°	618.8	615.2	610.6	609.7	607.0
40°	591.5	590.6	585.1	586.0	586.0
42.5°	566.0	563.2	560.5	558.7	559.6
45°	542.3	535.9	534.1	531.3	532.2
47.5°	511.3	508.5	506.7	503.1	504.0
50°	481.2	481.2	475.7	474.8	474.8
52.5°	453.0	451.1	446.6	447.5	444.8
55°	422.9	420.1	417.4	415.6	414.7
57.5°	390.1	387.3	385.5	382.8	382.8
60°	358.2	354.5	353.6	350.0	350.9
62.5°	323.5	322.6	321.7	319.0	316.2
65°	289.8	289.8	287.1	286.2	283.4
67.5°	257.9	256.1	253.4	253.4	251.5
70°	226.0	223.3	222.4	219.6	218.7
72.5°	190.5	190.5	187.7	186.8	186.8
75°	159.5	158.6	156.8	154.0	154.9
77.5°	127.6	126.7	125.8	123.9	123.0
80°	96.6	96.6	94.8	95.7	93.0
82.5°	67.4	68.4	66.5	66.5	64.7
85°	41.0	42.8	40.1	41.0	39.2
87.5°	17.3	17.3	16.4	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)