

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: P298538

Luminaire Tested: **22FPX-32-L830-5LTHD-SWPD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P298538
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-32-L830-5LTHD-SWPD1
Description: 2x2 FPX SERIES LED PANEL, 3000K CCT AND 80CRI
Light Source: -
Ballast/Driver: -

Summary

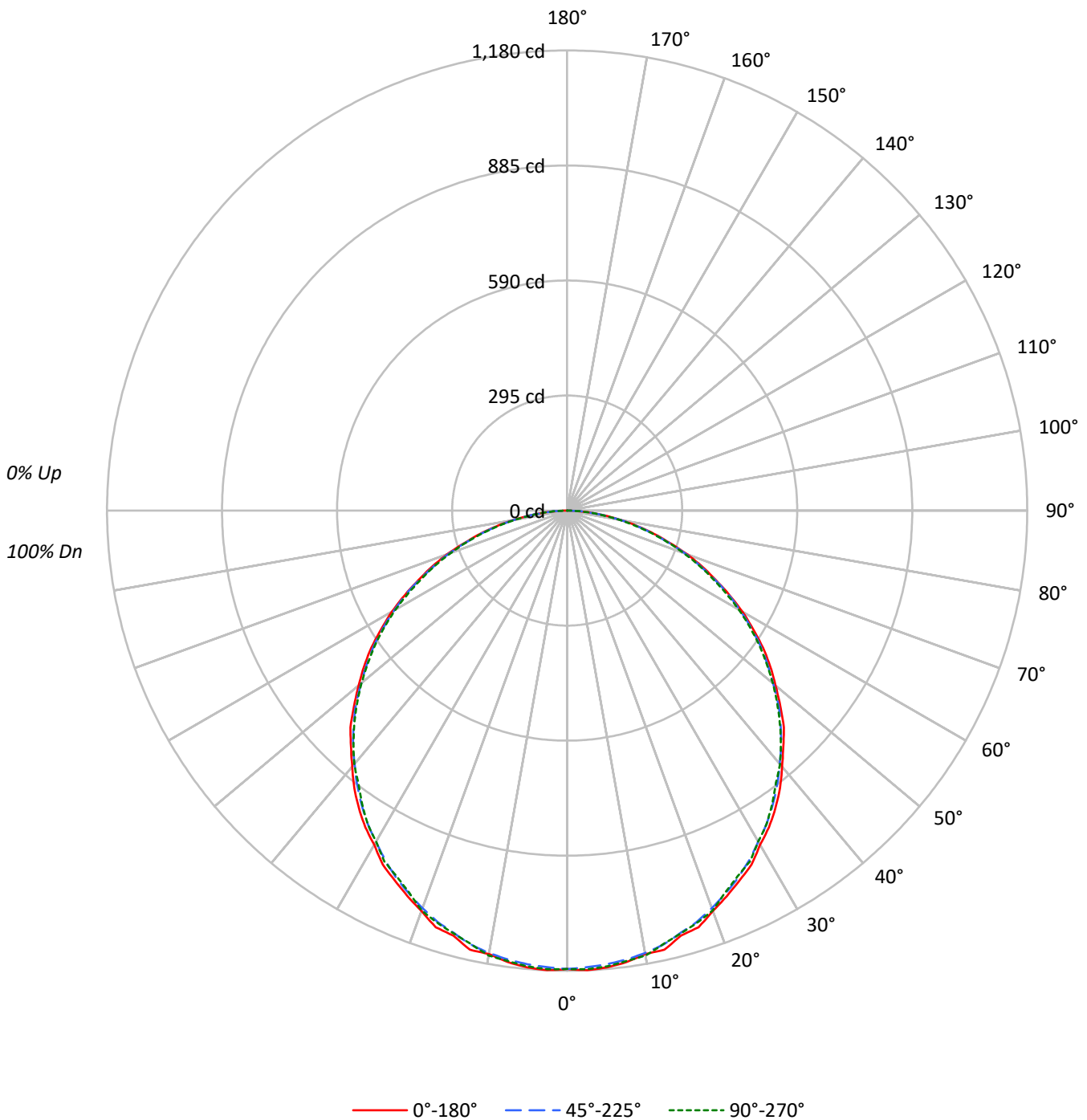
Lumens per Lamp: N/A
Luminaire Lumens: 3344.1 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 31.0990473436255
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			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°	3164	3164	3164
5°	3176	3155	3169
10°	3155	3148	3166
15°	3143	3125	3128
20°	3129	3106	3125
25°	3107	3083	3071
30°	3075	3046	3046
35°	3060	3021	3012
40°	3012	2979	2984
45°	2991	2946	2936
50°	2920	2887	2882
55°	2876	2838	2820
60°	2794	2759	2737
65°	2675	2649	2616
70°	2578	2536	2495
75°	2404	2362	2335
80°	2170	2129	2087
85°	1834	1794	1754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	3.3
10°-20°	317.8	9.5
20°-30°	479.6	14.3
30°-40°	576.6	17.2
40°-50°	597.5	17.9
50°-60°	540.5	16.2
60°-70°	412.5	12.3
70°-80°	240.5	7.2
80°-90°	68.0	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°	908.5	27.2
0°-40°	1485.1	44.4
0°-60°	2623.1	78.4
0°-90°	3344.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3344.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1176	1172	1168	1168	1173	112
15°	1128	1127	1122	1124	1123	320
25°	1046	1046	1038	1038	1034	482
35°	931	925	920	918	917	582
45°	786	777	774	770	772	603
55°	613	609	605	602	601	546
65°	420	420	416	415	411	417
75°	231	230	227	223	225	244
85°	59	62	58	59	57	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1175.7	1175.7	1175.7	1175.7	1175.7
2.5°	1179.7	1173.1	1171.8	1174.4	1177.1
5°	1175.7	1171.8	1167.8	1167.8	1173.1
7.5°	1167.8	1163.9	1161.2	1161.2	1165.2
10°	1154.6	1150.6	1152.0	1152.0	1158.6
12.5°	1153.3	1141.4	1140.1	1141.4	1138.8
15°	1128.2	1126.9	1121.6	1124.2	1122.9
17.5°	1120.3	1112.3	1105.7	1107.1	1108.4
20°	1092.5	1089.9	1084.6	1085.9	1091.2
22.5°	1070.1	1071.4	1062.1	1062.1	1059.5
25°	1046.3	1046.3	1038.4	1038.4	1034.4
27.5°	1023.8	1017.2	1010.6	1011.9	1014.6
30°	989.5	986.8	980.2	981.6	980.2
32.5°	963.1	961.7	952.5	949.8	952.5
35°	931.4	924.7	919.5	918.1	916.8
37.5°	897.0	891.7	885.1	883.8	879.8
40°	857.4	856.1	848.1	849.4	849.4
42.5°	820.4	816.4	812.5	809.8	811.1
45°	786.0	776.8	774.1	770.2	771.5
47.5°	741.1	737.2	734.5	729.2	730.5
50°	697.5	697.5	689.6	688.3	688.3
52.5°	656.6	653.9	647.3	648.6	644.7
55°	613.0	609.0	605.0	602.4	601.1
57.5°	565.4	561.5	558.8	554.8	554.8
60°	519.2	513.9	512.6	507.3	508.6
62.5°	469.0	467.7	466.3	462.4	458.4
65°	420.1	420.1	416.1	414.8	410.9
67.5°	373.9	371.2	367.3	367.3	364.6
70°	327.6	323.7	322.3	318.4	317.1
72.5°	276.1	276.1	272.1	270.8	270.8
75°	231.2	229.9	227.2	223.3	224.6
77.5°	184.9	183.6	182.3	179.7	178.3
80°	140.0	140.0	137.4	138.7	134.7
82.5°	97.8	99.1	96.4	96.4	93.8
85°	59.4	62.1	58.1	59.4	56.8
87.5°	25.1	25.1	23.8	23.8	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)