

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: P298491

Luminaire Tested: **22FPX-32-L835-HCD-SWPD1**

Issue Date: 3/3/2020



**Test Information**

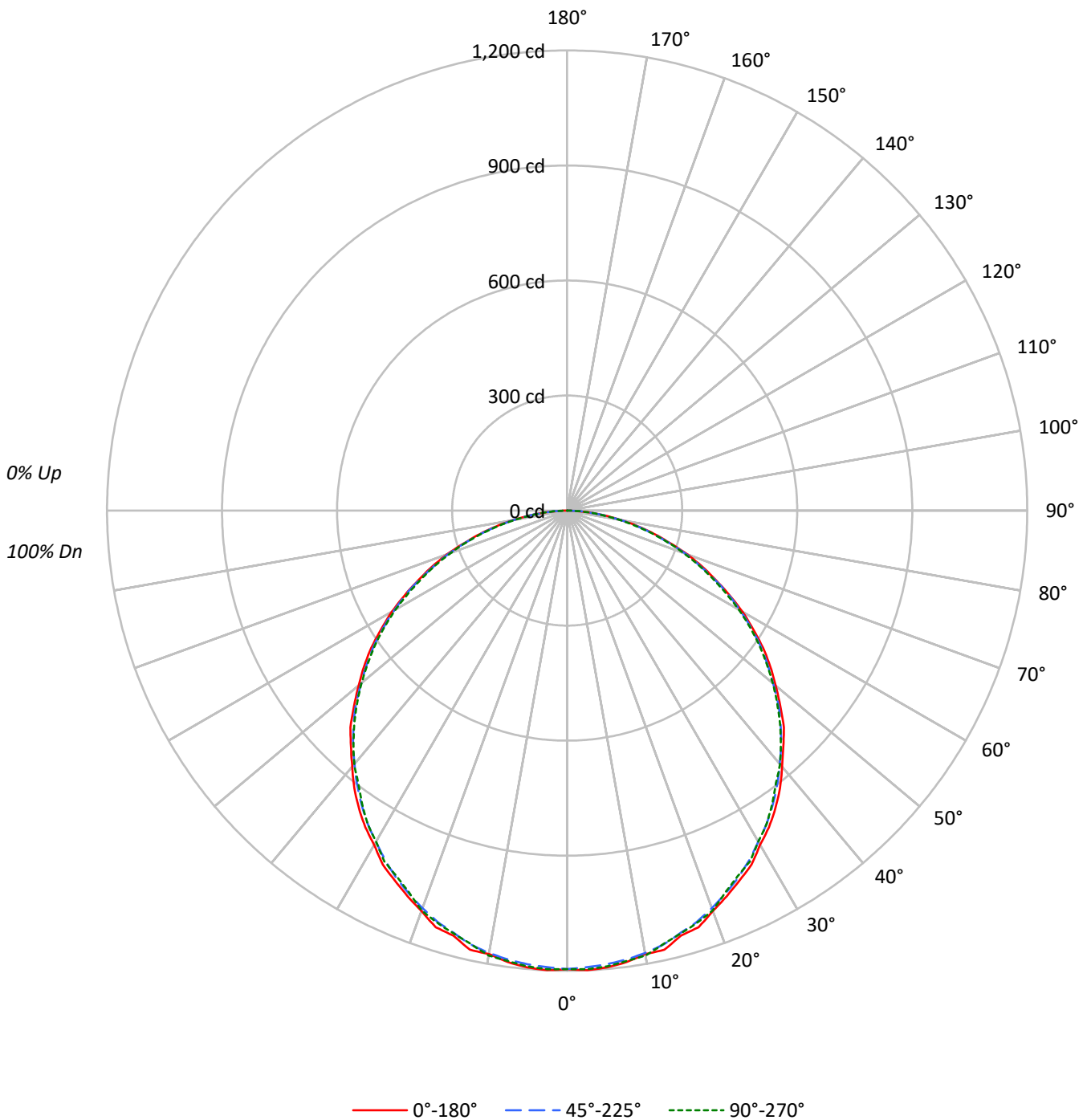
Test Method: LM-79-08  
Report Number: P298491  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-179-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22FPX-32-L835-HCD-SWPD1  
Description: 2x2 FPX SERIES LED PANEL, 3500K CCT AND 80CRI  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3400.8 lumens  
Efficiency: N/A  
Efficacy: 111.5 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): 30.4899542203742  
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	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°	3218	3218	3218
5°	3230	3208	3223
10°	3208	3201	3219
15°	3196	3178	3182
20°	3182	3159	3178
25°	3159	3135	3123
30°	3127	3098	3098
35°	3112	3072	3063
40°	3063	3030	3035
45°	3042	2996	2986
50°	2970	2936	2930
55°	2925	2887	2868
60°	2842	2806	2784
65°	2720	2695	2660
70°	2622	2579	2537
75°	2444	2403	2375
80°	2207	2165	2123
85°	1868	1825	1785



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.0	3.3
10°-20°	323.2	9.5
20°-30°	487.7	14.3
30°-40°	586.4	17.2
40°-50°	607.6	17.9
50°-60°	549.7	16.2
60°-70°	419.5	12.3
70°-80°	244.6	7.2
80°-90°	69.1	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°	923.9	27.2
0°-40°	1510.3	44.4
0°-60°	2667.6	78.4
0°-90°	3400.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3400.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1196	1196	1196	1196	1196	
5°	1196	1192	1188	1188	1193	113
15°	1147	1146	1141	1143	1142	325
25°	1064	1064	1056	1056	1052	491
35°	947	940	935	934	932	592
45°	799	790	787	783	785	614
55°	623	619	615	613	611	556
65°	427	427	423	422	418	424
75°	235	234	231	227	228	248
85°	60	63	59	60	58	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1195.7	1195.7	1195.7	1195.7	1195.7
2.5°	1199.7	1193.0	1191.7	1194.4	1197.0
5°	1195.7	1191.7	1187.6	1187.6	1193.0
7.5°	1187.6	1183.6	1180.9	1180.9	1184.9
10°	1174.2	1170.2	1171.5	1171.5	1178.2
12.5°	1172.9	1160.8	1159.4	1160.8	1158.1
15°	1147.3	1146.0	1140.6	1143.3	1142.0
17.5°	1139.3	1131.2	1124.5	1125.8	1127.2
20°	1111.1	1108.4	1103.0	1104.3	1109.7
22.5°	1088.2	1089.6	1080.2	1080.2	1077.5
25°	1064.0	1064.0	1056.0	1056.0	1051.9
27.5°	1041.2	1034.5	1027.8	1029.1	1031.8
30°	1006.3	1003.6	996.9	998.2	996.9
32.5°	979.4	978.1	968.6	966.0	968.6
35°	947.2	940.4	935.1	933.7	932.4
37.5°	912.2	906.8	900.1	898.8	894.8
40°	871.9	870.6	862.5	863.9	863.9
42.5°	834.3	830.3	826.2	823.6	824.9
45°	799.4	790.0	787.3	783.2	784.6
47.5°	753.7	749.7	747.0	741.6	742.9
50°	709.4	709.4	701.3	700.0	700.0
52.5°	667.7	665.0	658.3	659.6	655.6
55°	623.4	619.3	615.3	612.6	611.3
57.5°	575.0	571.0	568.3	564.3	564.3
60°	528.0	522.6	521.3	515.9	517.2
62.5°	476.9	475.6	474.2	470.2	466.2
65°	427.2	427.2	423.2	421.9	417.8
67.5°	380.2	377.5	373.5	373.5	370.8
70°	333.2	329.2	327.8	323.8	322.4
72.5°	280.8	280.8	276.8	275.4	275.4
75°	235.1	233.8	231.1	227.0	228.4
77.5°	188.1	186.7	185.4	182.7	181.4
80°	142.4	142.4	139.7	141.1	137.0
82.5°	99.4	100.8	98.1	98.1	95.4
85°	60.5	63.1	59.1	60.5	57.8
87.5°	25.5	25.5	24.2	24.2	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)