

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: P298492

Luminaire Tested: **22FPX-32-L840-HCD-SWPD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P298492
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-L840-HCD-SWPD1
Description: 2x2 FPX SERIES LED PANEL, 4000K CCT AND 80CRI
Light Source: -
Ballast/Driver: -

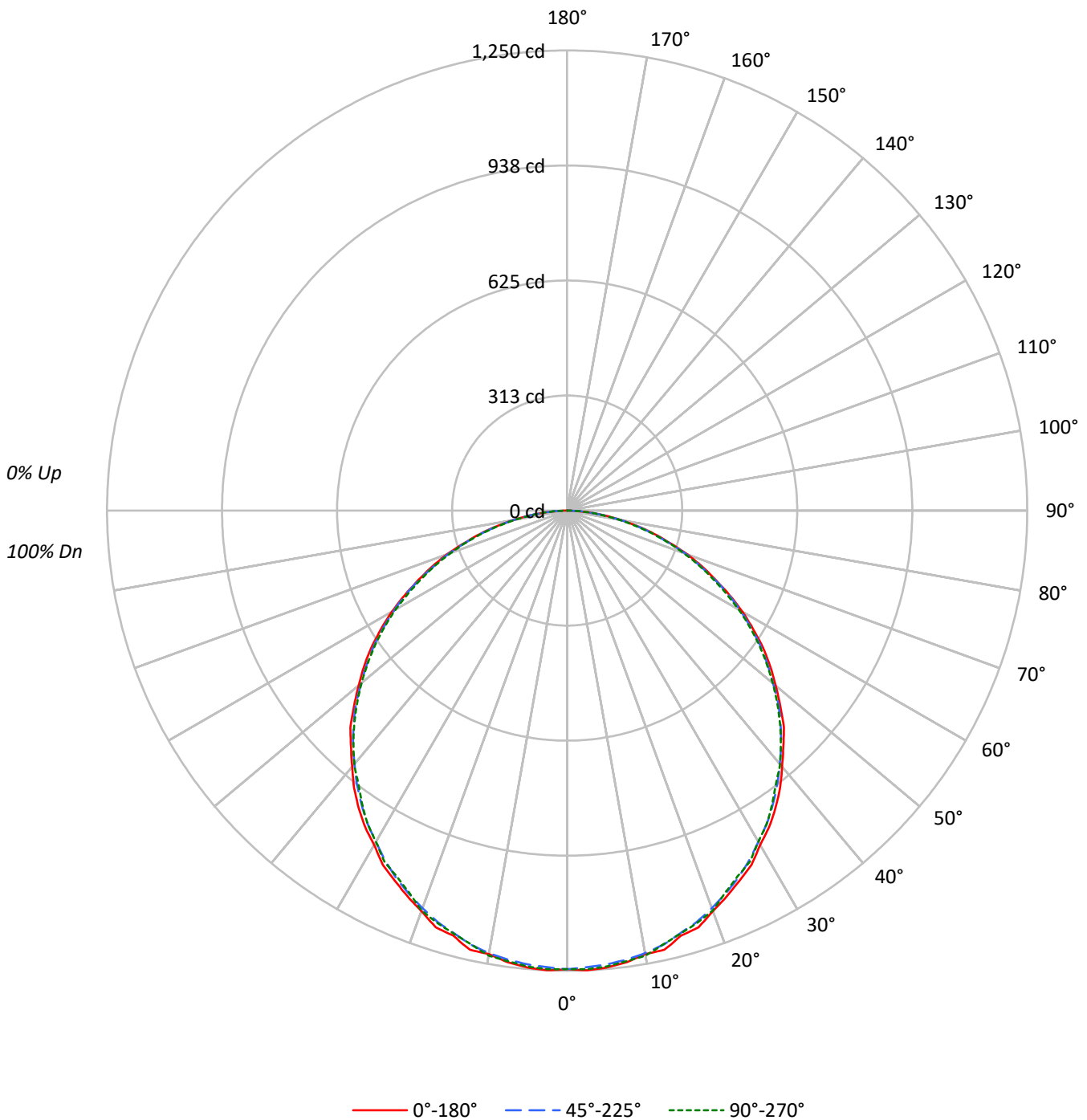
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3543.1 lumens
Efficiency: N/A
Efficacy: 113.5 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): 31.2085726700126
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°	3352	3352	3352
5°	3365	3342	3357
10°	3343	3335	3354
15°	3330	3310	3314
20°	3315	3291	3311
25°	3292	3267	3254
30°	3258	3227	3227
35°	3242	3200	3191
40°	3191	3157	3162
45°	3169	3121	3111
50°	3094	3059	3053
55°	3047	3008	2988
60°	2961	2923	2900
65°	2834	2807	2772
70°	2731	2687	2643
75°	2546	2503	2473
80°	2300	2256	2213
85°	1945	1902	1859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	3.3
10°-20°	336.7	9.5
20°-30°	508.1	14.3
30°-40°	610.9	17.2
40°-50°	633.0	17.9
50°-60°	572.7	16.2
60°-70°	437.1	12.3
70°-80°	254.8	7.2
80°-90°	72.0	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°	962.6	27.2
0°-40°	1573.5	44.4
0°-60°	2779.2	78.4
0°-90°	3543.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3543.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1246	1246	1246	1246	1246	
5°	1246	1242	1237	1237	1243	118
15°	1195	1194	1188	1191	1190	339
25°	1109	1109	1100	1100	1096	511
35°	987	980	974	973	971	616
45°	833	823	820	816	817	639
55°	650	645	641	638	637	579
65°	445	445	441	440	435	442
75°	245	244	241	236	238	259
85°	63	66	62	63	60	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1245.7	1245.7	1245.7	1245.7	1245.7
2.5°	1249.9	1242.9	1241.5	1244.3	1247.1
5°	1245.7	1241.5	1237.3	1237.3	1242.9
7.5°	1237.3	1233.1	1230.3	1230.3	1234.5
10°	1223.3	1219.1	1220.5	1220.5	1227.5
12.5°	1221.9	1209.3	1207.9	1209.3	1206.5
15°	1195.3	1193.9	1188.3	1191.1	1189.7
17.5°	1186.9	1178.5	1171.5	1172.9	1174.3
20°	1157.6	1154.8	1149.2	1150.6	1156.2
22.5°	1133.8	1135.2	1125.4	1125.4	1122.6
25°	1108.6	1108.6	1100.2	1100.2	1096.0
27.5°	1084.8	1077.8	1070.8	1072.2	1075.0
30°	1048.4	1045.6	1038.6	1040.0	1038.6
32.5°	1020.4	1019.0	1009.2	1006.4	1009.2
35°	986.8	979.8	974.2	972.8	971.4
37.5°	950.4	944.8	937.8	936.4	932.2
40°	908.4	907.0	898.6	900.0	900.0
42.5°	869.2	865.0	860.8	858.0	859.4
45°	832.8	823.0	820.2	816.0	817.4
47.5°	785.2	781.0	778.2	772.6	774.0
50°	739.0	739.0	730.6	729.2	729.2
52.5°	695.7	692.9	685.9	687.3	683.1
55°	649.5	645.3	641.1	638.3	636.9
57.5°	599.1	594.9	592.1	587.9	587.9
60°	550.1	544.5	543.1	537.5	538.9
62.5°	496.9	495.5	494.1	489.9	485.7
65°	445.1	445.1	440.9	439.5	435.3
67.5°	396.1	393.3	389.1	389.1	386.3
70°	347.1	342.9	341.5	337.3	335.9
72.5°	292.5	292.5	288.3	286.9	286.9
75°	244.9	243.5	240.7	236.5	237.9
77.5°	196.0	194.6	193.2	190.4	189.0
80°	148.4	148.4	145.6	147.0	142.8
82.5°	103.6	105.0	102.2	102.2	99.4
85°	63.0	65.8	61.6	63.0	60.2
87.5°	26.6	26.6	25.2	25.2	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)