

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: P29724

Luminaire Tested: **22FP3830C9**

Test Date: 06/12/17

**Test Information**

Test Method: LM-79-08  
Report Number: P29724  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P29724)  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 06/12/17  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22FP3830C9  
Description: 2x2, 4200LM, UNV LED FLAT PANEL FIXTURE  
Light Source: -  
Ballast/Driver: -

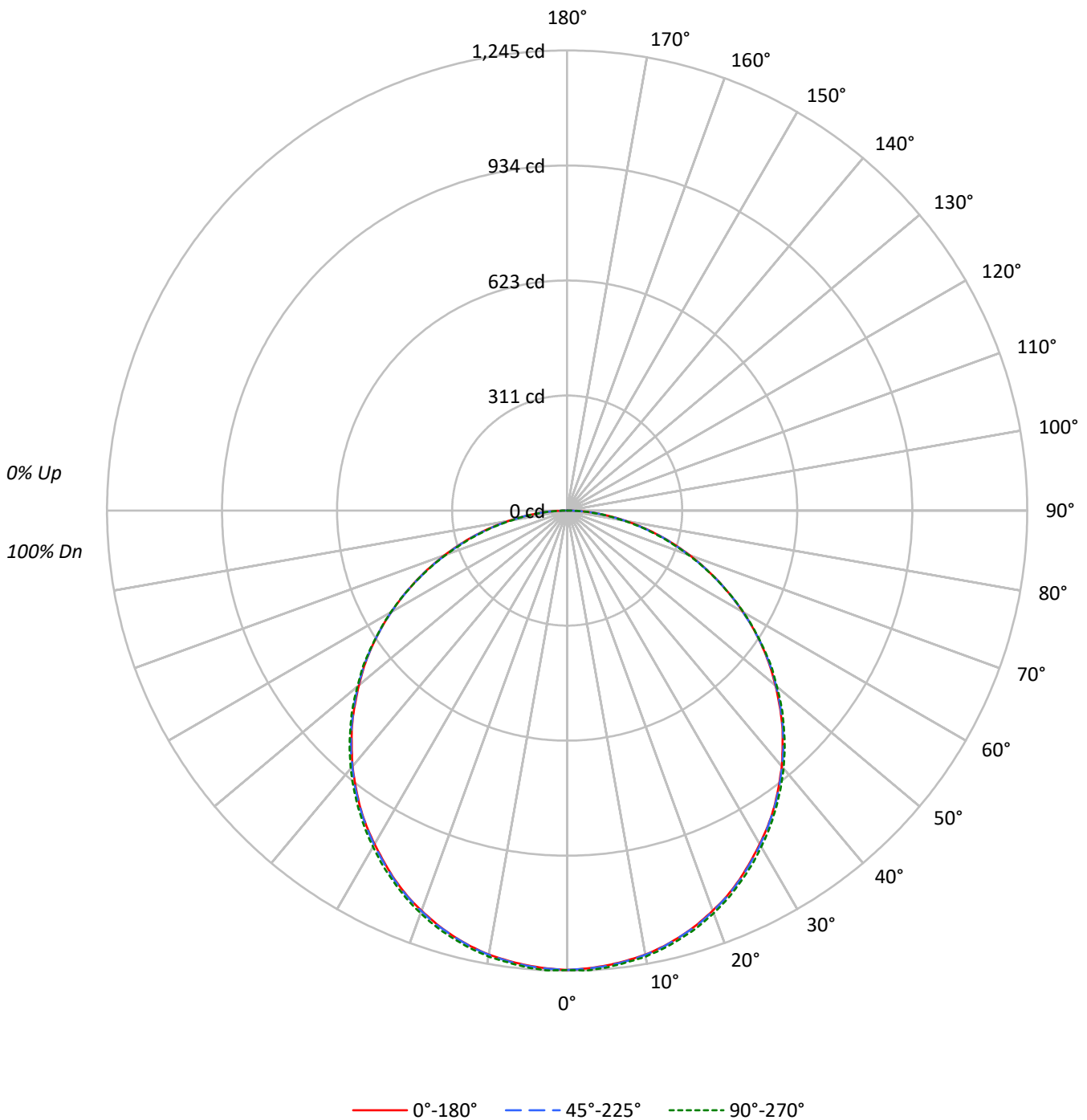
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3585.0 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.327  
Voltage Rise (V): NR  
Power Factor: 0.9966  
Total Harmonic Distortion (THDi): 10.8%  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 24 HR  
Ambient Temperature (°C): 25.4  
Test Distance: 25 FT



TEST NUMBER: P29724  
CATALOG NUMBER: 22FP3830C9

### Luminous Intensity Polar Plot





TEST NUMBER: P29724  
 CATALOG NUMBER: 22FP3830C9

**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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3345	3345	3345
5°	3337	3341	3351
10°	3333	3335	3348
15°	3321	3321	3336
20°	3298	3303	3320
25°	3273	3278	3294
30°	3238	3245	3265
35°	3210	3215	3233
40°	3172	3178	3199
45°	3134	3140	3157
50°	3079	3088	3101
55°	3030	3034	3044
60°	2960	2956	2969
65°	2872	2868	2863
70°	2772	2741	2735
75°	2659	2643	2578
80°	2489	2442	2394
85°	2291	2242	2171



TEST NUMBER: P29724  
 CATALOG NUMBER: 22FP3830C9

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.6	3.3
10°-20°	336.8	9.4
20°-30°	509.1	14.2
30°-40°	612.8	17.1
40°-50°	636.8	17.8
50°-60°	578.1	16.1
60°-70°	445.8	12.4
70°-80°	267.0	7.4
80°-90°	81.0	2.3
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°	963.6	26.9
0°-40°	1576.4	44.0
0°-60°	2791.3	77.9
0°-90°	3585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3585.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1243	1243	1243	1243	1243	
5°	1235	1236	1237	1238	1241	117
15°	1192	1192	1192	1195	1197	336
25°	1102	1102	1104	1108	1109	508
35°	977	977	979	983	984	611
45°	824	823	825	829	830	634
55°	646	646	647	649	649	577
65°	451	450	450	450	450	447
75°	256	255	254	250	248	270
85°	74	73	73	70	70	83
90°	0	0	0	0	0	



TEST NUMBER: P29724  
 CATALOG NUMBER: 22FP3830C9

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1243.0	1243.0	1243.0	1243.0	1243.0
2.5°	1239.9	1240.6	1240.6	1243.7	1245.3
5°	1235.2	1236.0	1236.8	1238.3	1240.6
7.5°	1228.3	1229.8	1229.8	1232.1	1232.9
10°	1219.8	1220.6	1220.6	1222.9	1225.2
12.5°	1207.4	1208.2	1208.2	1210.5	1212.8
15°	1192.0	1192.0	1192.0	1195.1	1197.4
17.5°	1173.4	1173.4	1174.9	1177.3	1180.4
20°	1151.8	1152.6	1153.4	1156.4	1159.5
22.5°	1129.4	1129.4	1130.2	1134.0	1136.3
25°	1102.4	1102.4	1103.9	1107.8	1109.3
27.5°	1072.2	1073.8	1074.5	1079.2	1081.5
30°	1042.1	1042.9	1044.4	1048.3	1050.6
32.5°	1011.2	1011.2	1012.0	1016.6	1019.0
35°	977.2	977.2	978.8	982.6	984.2
37.5°	940.1	940.9	942.4	947.8	948.6
40°	903.1	903.1	904.6	909.2	910.8
42.5°	862.9	863.6	866.0	870.6	871.4
45°	823.5	822.8	825.0	828.9	829.6
47.5°	779.5	781.0	781.8	786.4	787.2
50°	735.4	737.0	737.7	741.6	740.8
52.5°	692.2	691.3	693.7	696.0	697.6
55°	645.8	645.8	646.6	648.9	648.9
57.5°	598.7	597.9	598.7	600.2	600.2
60°	550.0	549.2	549.2	551.6	551.6
62.5°	500.6	499.8	500.6	500.6	501.4
65°	451.1	450.4	450.4	450.4	449.6
67.5°	401.7	401.7	401.0	399.4	398.6
70°	352.3	352.3	348.4	348.4	347.6
72.5°	303.6	303.6	301.3	299.0	297.5
75°	255.7	254.9	254.2	250.3	248.0
77.5°	207.8	207.0	205.5	202.4	202.4
80°	160.6	159.1	157.6	154.5	154.5
82.5°	116.6	115.1	114.3	111.2	111.2
85°	74.2	72.6	72.6	70.3	70.3
87.5°	34.8	33.2	34.0	33.2	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)