

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: P29725

Luminaire Tested: **22FP4240C**

Test Date: 06/13/17

**Test Information**

Test Method: LM-79-08  
Report Number: P29725  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 06/13/17  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22FP4240C  
Description: 2x2, 4200LM, UNV LED FLAT PANEL FIXTURE  
Light Source: -  
Ballast/Driver: -

**Summary**

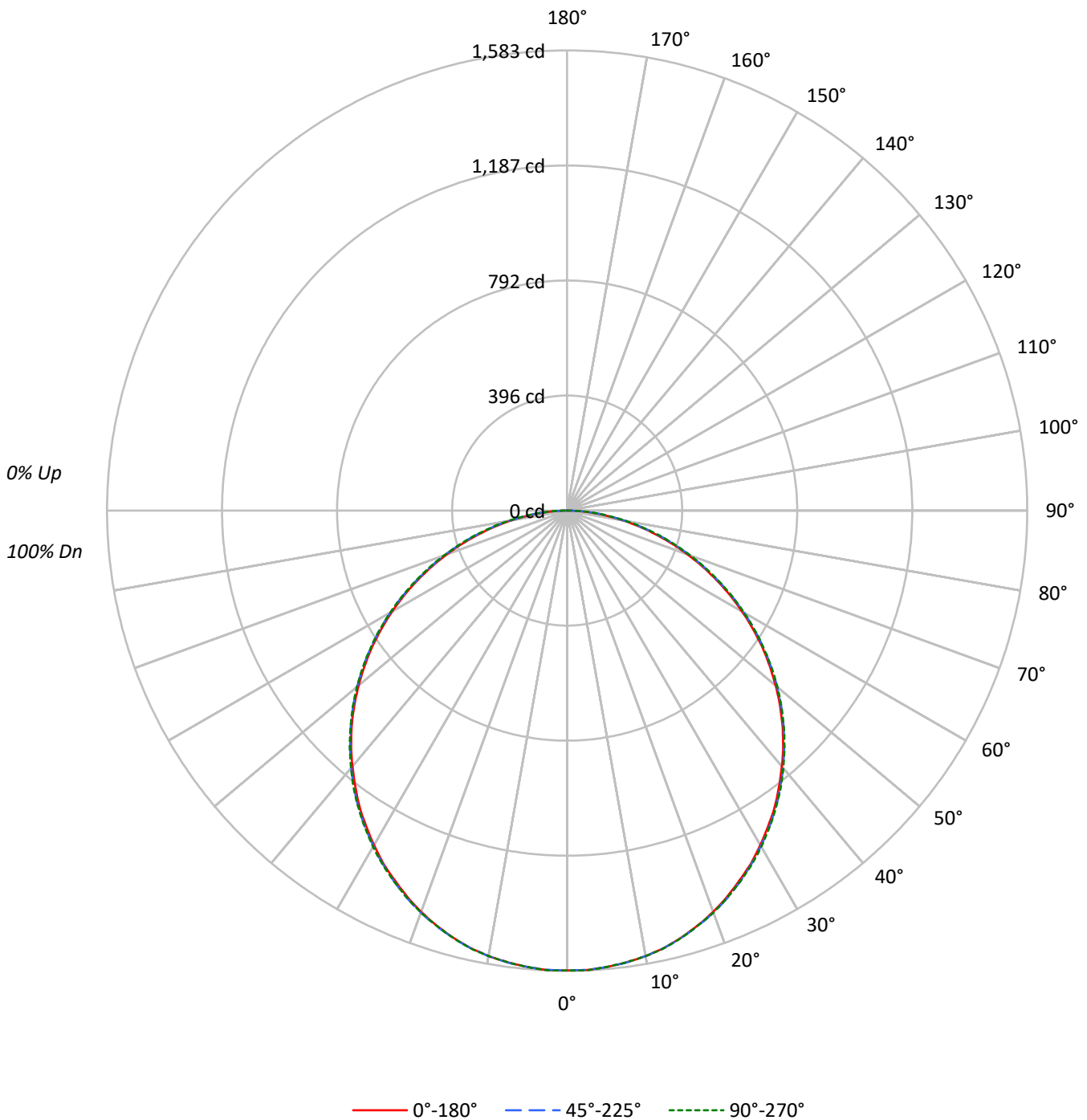
Lumens per Lamp: N/A  
Luminaire Lumens: 4567.1 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 39.3  
Input Voltage (V): 120.0  
Input Current (Ain): 0.330  
Voltage Rise (V): NR  
Power Factor: 0.9968  
Total Harmonic Distortion (THDi): 10.0%  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 24 HR  
Ambient Temperature (°C): 25.1  
Test Distance: 25 FT



TEST NUMBER: P29725  
CATALOG NUMBER: 22FP4240C

### Luminous Intensity Polar Plot





TEST NUMBER: P29725  
 CATALOG NUMBER: 22FP4240C

**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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
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°	4257	4257	4257
5°	4257	4257	4257
10°	4252	4252	4252
15°	4235	4237	4237
20°	4207	4215	4215
25°	4166	4181	4181
30°	4130	4142	4151
35°	4090	4106	4110
40°	4036	4057	4064
45°	3988	4007	4011
50°	3918	3948	3952
55°	3842	3875	3875
60°	3740	3784	3784
65°	3617	3661	3674
70°	3462	3525	3541
75°	3265	3358	3389
80°	3006	3099	3177
85°	2717	2871	2902



TEST NUMBER: P29725  
 CATALOG NUMBER: 22FP4240C

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.6	3.3
10°-20°	428.7	9.4
20°-30°	648.1	14.2
30°-40°	780.7	17.1
40°-50°	811.3	17.8
50°-60°	736.9	16.1
60°-70°	568.4	12.4
70°-80°	340.1	7.4
80°-90°	103.3	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°	1226.4	26.9
0°-40°	2007.1	43.9
0°-60°	3555.3	77.8
0°-90°	4567.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4567.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1582	1582	1582	1582	1582	
5°	1576	1568	1576	1575	1576	150
15°	1520	1514	1521	1522	1521	429
25°	1403	1401	1408	1409	1408	647
35°	1245	1245	1250	1251	1251	778
45°	1048	1049	1053	1056	1054	808
55°	819	822	826	830	826	731
65°	568	571	575	578	577	562
75°	314	318	323	326	326	333
85°	88	90	93	94	94	100
90°	0	0	0	0	0	



TEST NUMBER: P29725  
 CATALOG NUMBER: 22FP4240C

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1582	1582	1582	1582	1582
2.5°	1582	1575	1581	1581	1583
5°	1576	1568	1576	1575	1576
7.5°	1567	1560	1568	1567	1567
10°	1556	1549	1556	1556	1556
12.5°	1541	1534	1541	1541	1542
15°	1520	1514	1521	1522	1521
17.5°	1496	1491	1498	1498	1497
20°	1469	1465	1472	1472	1472
22.5°	1438	1435	1442	1443	1441
25°	1403	1401	1408	1409	1408
27.5°	1369	1365	1372	1374	1374
30°	1329	1326	1333	1335	1336
32.5°	1287	1287	1293	1294	1294
35°	1245	1245	1250	1251	1251
37.5°	1197	1199	1204	1205	1206
40°	1149	1150	1155	1157	1157
42.5°	1100	1101	1105	1108	1107
45°	1048	1049	1053	1056	1054
47.5°	993	995	999	1001	1000
50°	936	938	943	945	944
52.5°	878	881	885	888	886
55°	819	822	826	830	826
57.5°	757	761	765	769	766
60°	695	699	703	704	703
62.5°	632	635	639	643	641
65°	568	571	575	578	577
67.5°	504	507	511	515	514
70°	440	444	448	450	450
72.5°	377	378	385	389	388
75°	314	318	323	326	326
77.5°	254	257	261	265	265
80°	194	196	200	205	205
82.5°	140	142	146	148	148
85°	88	90	93	94	94
87.5°	41	42	43	43	44
90°	0	0	0	0	0

(END OF REPORT)