

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: **22FP4235C**

Test Date: 06/12/17

Test Information

Test Method: LM-79-08
Report Number: 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: 22FP4235C
Description: 2x2, 4200LM, UNV LED FLAT PANEL FIXTURE
Light Source: -
Ballast/Driver: -

Summary

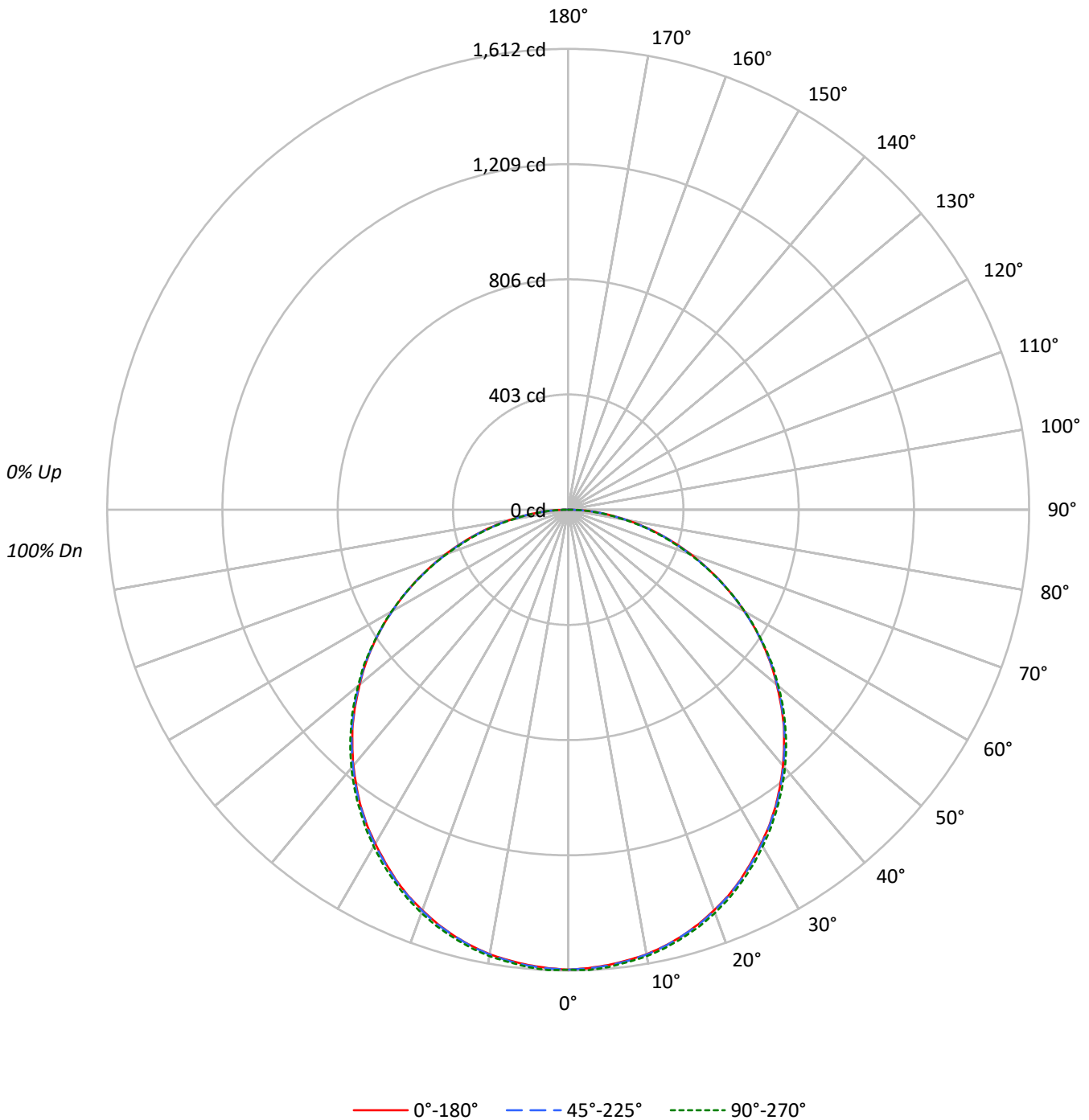
Lumens per Lamp: N/A
Luminaire Lumens: 4640.8 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: 22FP4235C

Luminous Intensity Polar Plot





TEST NUMBER: P29724
 CATALOG NUMBER: 22FP4235C

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	34	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°	4330	4330	4330
5°	4319	4325	4338
10°	4315	4317	4334
15°	4299	4299	4318
20°	4270	4275	4298
25°	4237	4243	4264
30°	4192	4201	4226
35°	4156	4162	4185
40°	4106	4114	4142
45°	4057	4064	4087
50°	3985	3998	4015
55°	3922	3927	3941
60°	3832	3827	3843
65°	3719	3712	3706
70°	3588	3548	3541
75°	3441	3421	3337
80°	3223	3161	3099
85°	2964	2902	2810



TEST NUMBER: P29724
 CATALOG NUMBER: 22FP4235C

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.2	3.3
10°-20°	436.0	9.4
20°-30°	659.1	14.2
30°-40°	793.3	17.1
40°-50°	824.3	17.8
50°-60°	748.3	16.1
60°-70°	577.0	12.4
70°-80°	345.6	7.4
80°-90°	104.8	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°	1247.3	26.9
0°-40°	2040.6	44.0
0°-60°	3613.3	77.9
0°-90°	4640.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4640.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1609	1609	1609	1609	1609	
5°	1599	1600	1601	1603	1606	152
15°	1543	1543	1543	1547	1550	435
25°	1427	1427	1429	1434	1436	657
35°	1265	1265	1267	1272	1274	791
45°	1066	1065	1068	1073	1074	821
55°	836	836	837	840	840	747
65°	584	583	583	583	582	578
75°	331	330	329	324	321	349
85°	96	94	94	91	91	108
90°	0	0	0	0	0	



TEST NUMBER: P29724
 CATALOG NUMBER: 22FP4235C

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1609	1609	1609	1609	1609
2.5°	1605	1606	1606	1610	1612
5°	1599	1600	1601	1603	1606
7.5°	1590	1592	1592	1595	1596
10°	1579	1580	1580	1583	1586
12.5°	1563	1564	1564	1567	1570
15°	1543	1543	1543	1547	1550
17.5°	1519	1519	1521	1524	1528
20°	1491	1492	1493	1497	1501
22.5°	1462	1462	1463	1468	1471
25°	1427	1427	1429	1434	1436
27.5°	1388	1390	1391	1397	1400
30°	1349	1350	1352	1357	1360
32.5°	1309	1309	1310	1316	1319
35°	1265	1265	1267	1272	1274
37.5°	1217	1218	1220	1227	1228
40°	1169	1169	1171	1177	1179
42.5°	1117	1118	1121	1127	1128
45°	1066	1065	1068	1073	1074
47.5°	1009	1011	1012	1018	1019
50°	952	954	955	960	959
52.5°	896	895	898	901	903
55°	836	836	837	840	840
57.5°	775	774	775	777	777
60°	712	711	711	714	714
62.5°	648	647	648	648	649
65°	584	583	583	583	582
67.5°	520	520	519	517	516
70°	456	456	451	451	450
72.5°	393	393	390	387	385
75°	331	330	329	324	321
77.5°	269	268	266	262	262
80°	208	206	204	200	200
82.5°	151	149	148	144	144
85°	96	94	94	91	91
87.5°	45	43	44	43	42
90°	0	0	0	0	0

(END OF REPORT)