

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: P303254

Luminaire Tested: **22FP4240C-347V**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22FP4240C-347V
Description: 347V 2x2 4200 LUMEN LED FLAT PANEL LUMINAIRE WITH 4000K LEDS
Light Source: -
Ballast/Driver: -

Summary

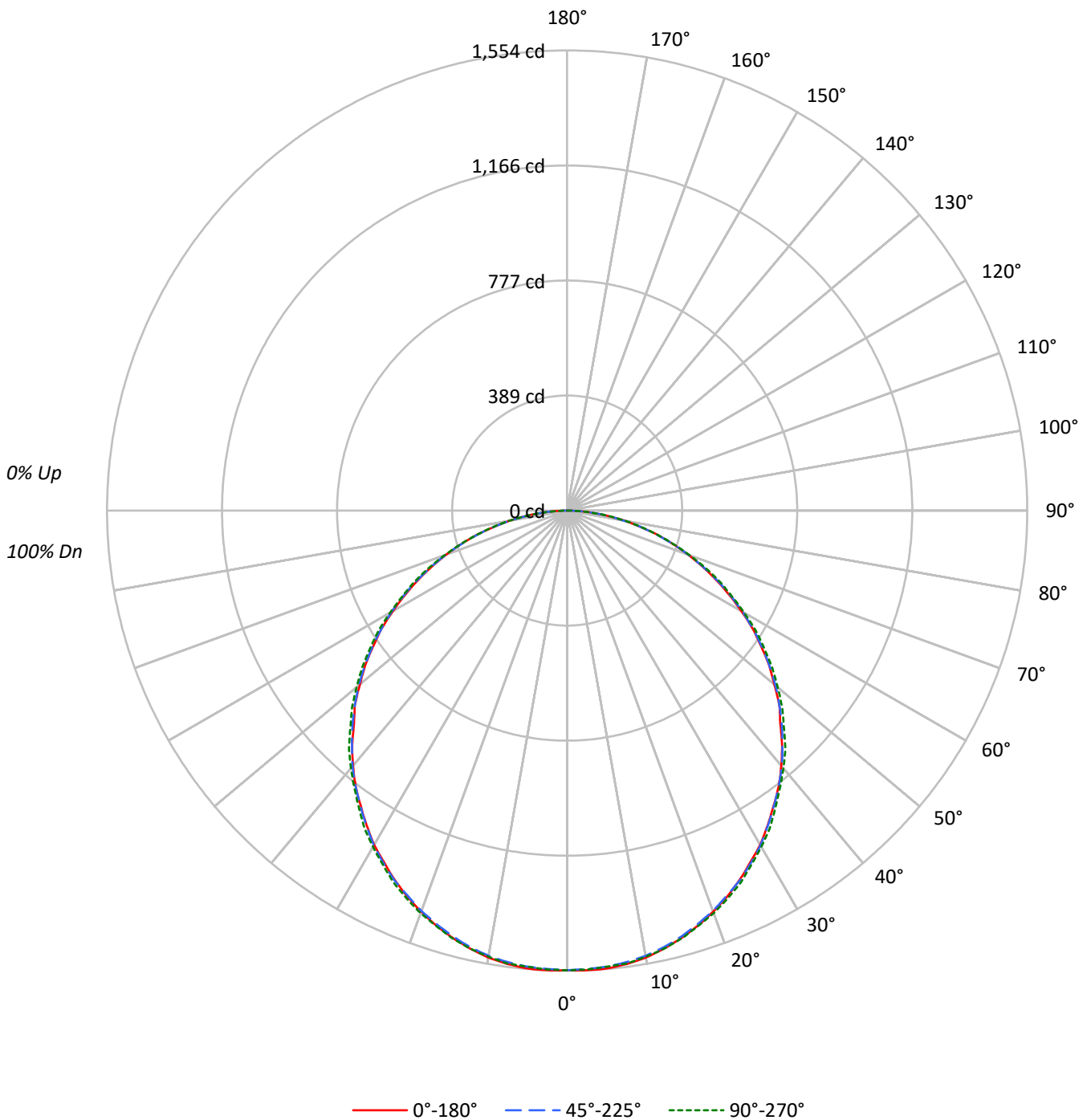
Lumens per Lamp: N/A
Luminaire Lumens: 4465.0 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 37.3
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	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	75		81	77	73		78	75	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	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	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	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	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°	4177	4177	4177
5°	4193	4176	4176
10°	4189	4171	4180
15°	4162	4148	4167
20°	4129	4120	4143
25°	4088	4093	4117
30°	4051	4056	4076
35°	3995	4000	4027
40°	3952	3963	3992
45°	3873	3903	3940
50°	3824	3845	3886
55°	3752	3768	3813
60°	3657	3683	3718
65°	3540	3571	3623
70°	3415	3428	3467
75°	3279	3246	3279
80°	3048	2999	3099
85°	2658	2711	2658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	3.3
10°-20°	420.8	9.4
20°-30°	635.5	14.2
30°-40°	764.1	17.1
40°-50°	792.6	17.8
50°-60°	719.6	16.1
60°-70°	555.1	12.4
70°-80°	331.6	7.4
80°-90°	98.6	2.2
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°	1203.4	27.0
0°-40°	1967.5	44.1
0°-60°	3479.7	77.9
0°-90°	4465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4465.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1552	1548	1546	1546	1546	148
15°	1494	1492	1489	1491	1496	421
25°	1377	1377	1378	1380	1387	635
35°	1216	1221	1218	1221	1226	762
45°	1018	1024	1026	1031	1035	788
55°	800	803	803	808	813	716
65°	556	559	561	564	569	551
75°	315	312	312	314	315	331
85°	86	88	88	86	86	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1552.4	1552.4	1552.4	1552.4	1552.4
2.5°	1554.0	1554.0	1549.2	1550.8	1550.8
5°	1552.4	1547.6	1545.9	1545.9	1545.9
7.5°	1544.3	1539.5	1537.8	1539.5	1542.7
10°	1533.0	1526.5	1526.5	1526.5	1529.7
12.5°	1515.0	1511.8	1510.2	1508.5	1515.0
15°	1494.0	1492.3	1489.1	1490.7	1495.6
17.5°	1469.5	1466.3	1464.7	1469.5	1471.1
20°	1441.8	1438.6	1438.6	1443.5	1446.8
22.5°	1411.1	1411.1	1407.8	1412.7	1417.5
25°	1376.9	1376.9	1378.5	1380.1	1386.6
27.5°	1339.5	1341.1	1342.7	1346.0	1347.6
30°	1303.7	1302.1	1305.3	1308.6	1311.8
32.5°	1259.8	1263.1	1261.5	1269.6	1272.8
35°	1216.0	1220.8	1217.6	1220.8	1225.7
37.5°	1173.7	1175.3	1173.7	1180.2	1180.2
40°	1125.0	1125.0	1128.2	1133.1	1136.3
42.5°	1074.5	1076.1	1076.1	1082.7	1090.8
45°	1017.6	1024.1	1025.7	1030.6	1035.4
47.5°	972.1	970.5	972.1	977.0	985.1
50°	913.5	916.9	918.5	923.4	928.2
52.5°	859.9	861.5	861.5	866.4	872.9
55°	799.8	803.1	803.1	807.9	812.8
57.5°	742.9	741.2	744.5	749.3	756.0
60°	679.5	679.5	684.4	687.6	690.9
62.5°	617.7	619.3	622.6	627.4	627.4
65°	556.0	559.2	560.9	564.1	569.0
67.5°	494.2	495.8	497.4	500.6	505.5
70°	434.1	434.1	435.7	438.9	440.6
72.5°	373.9	372.2	372.2	378.7	377.1
75°	315.4	312.2	312.2	313.8	315.4
77.5°	251.9	250.3	253.6	255.2	255.2
80°	196.7	195.1	193.5	195.1	200.0
82.5°	139.7	139.7	138.1	139.7	139.7
85°	86.1	87.8	87.8	86.1	86.1
87.5°	40.6	39.0	39.0	37.4	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)