

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: P303250

Luminaire Tested: **14FP4235C-347V**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303250
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: 14FP4235C-347V
Description: 347V 1x4 4200 LUMEN LED FLAT PANEL LUMINAIRE WITH 3500K LEDS
Light Source: -
Ballast/Driver: -

Summary

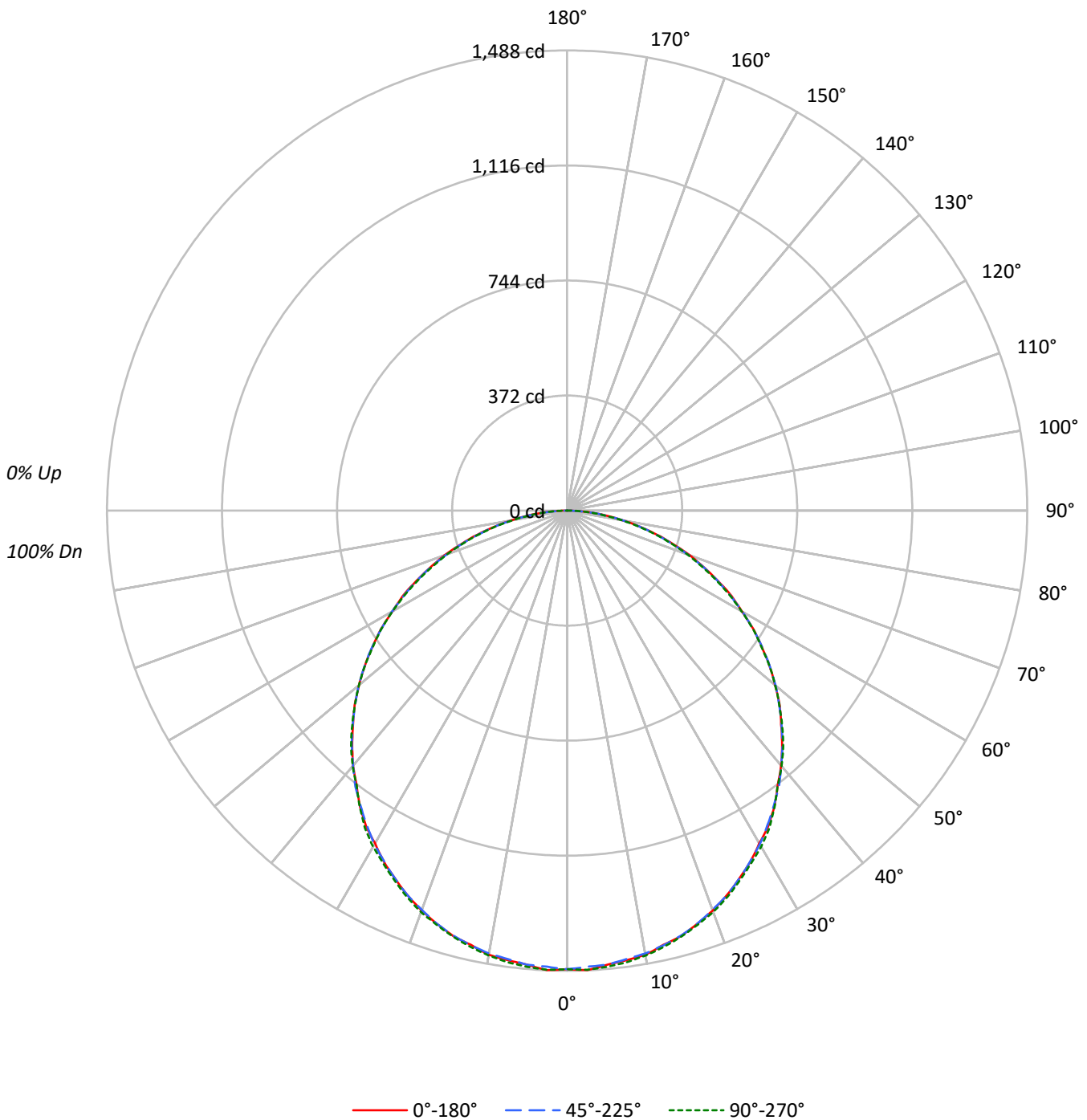
Lumens per Lamp: N/A
Luminaire Lumens: 4259.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.2
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	97	94	97	94	91	93	90	88	90	87	85	83
2	99	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	64	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	62	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	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	49	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°	3991	3991	3991
5°	3982	3982	4000
10°	3986	3974	3992
15°	3967	3964	3974
20°	3941	3935	3957
25°	3904	3904	3921
30°	3861	3871	3899
35°	3837	3826	3841
40°	3782	3782	3790
45°	3725	3733	3742
50°	3678	3682	3678
55°	3605	3615	3594
60°	3512	3518	3506
65°	3431	3410	3382
70°	3312	3250	3250
75°	3125	3068	3056
80°	2864	2830	2762
85°	2578	2442	2405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	3.3
10°-20°	401.8	9.4
20°-30°	607.2	14.3
30°-40°	729.9	17.1
40°-50°	757.3	17.8
50°-60°	687.7	16.1
60°-70°	529.8	12.4
70°-80°	313.5	7.4
80°-90°	91.4	2.1
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°	1149.4	27.0
0°-40°	1879.3	44.1
0°-60°	3324.3	78.1
0°-90°	4259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4259.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1483	1483	1483	1483	1483	
5°	1474	1479	1474	1480	1481	140
15°	1424	1424	1423	1425	1426	401
25°	1315	1315	1315	1322	1320	606
35°	1168	1166	1165	1168	1169	729
45°	979	983	981	982	983	756
55°	768	772	770	769	766	687
65°	539	538	536	534	531	533
75°	301	300	295	294	294	317
85°	84	82	79	77	78	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1483.1	1483.1	1483.1	1483.1	1483.1
2.5°	1487.6	1478.7	1476.4	1485.3	1486.4
5°	1474.2	1478.7	1474.2	1479.8	1480.9
7.5°	1466.4	1467.5	1463.1	1473.1	1473.1
10°	1458.6	1456.4	1454.2	1456.4	1460.8
12.5°	1438.6	1445.2	1439.7	1446.4	1445.2
15°	1424.1	1424.1	1423.0	1425.2	1426.3
17.5°	1400.7	1400.7	1400.7	1404.1	1404.1
20°	1376.2	1377.3	1374.0	1380.7	1381.8
22.5°	1347.3	1347.3	1347.3	1352.8	1352.8
25°	1315.0	1315.0	1315.0	1321.7	1320.5
27.5°	1281.6	1283.8	1280.5	1287.1	1287.1
30°	1242.6	1244.8	1245.9	1247.1	1254.9
32.5°	1210.3	1208.1	1205.9	1210.3	1217.0
35°	1168.0	1165.8	1164.7	1168.0	1169.1
37.5°	1119.0	1123.5	1124.6	1122.4	1119.0
40°	1076.7	1076.7	1076.7	1078.9	1078.9
42.5°	1028.8	1029.9	1031.0	1029.9	1034.4
45°	978.7	983.2	980.9	982.1	983.2
47.5°	932.0	935.3	929.7	930.8	930.8
50°	878.5	878.5	879.6	878.5	878.5
52.5°	825.1	826.2	826.2	825.1	825.1
55°	768.3	771.6	770.5	769.4	766.0
57.5°	714.8	714.8	712.6	711.5	712.6
60°	652.5	656.9	653.6	651.4	651.4
62.5°	600.1	599.0	594.6	592.4	592.4
65°	538.9	537.8	535.6	534.5	531.1
67.5°	477.7	478.8	476.6	473.2	469.9
70°	420.9	418.7	413.1	412.0	413.1
72.5°	358.5	358.5	355.2	354.1	351.8
75°	300.6	299.5	295.1	293.9	293.9
77.5°	239.4	240.5	239.4	233.8	234.9
80°	184.8	183.7	182.6	181.5	178.2
82.5°	132.5	131.4	130.3	128.0	124.7
85°	83.5	82.4	79.1	76.8	77.9
87.5°	37.9	35.6	34.5	34.5	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)