

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: P303251

Luminaire Tested: **14FP4240C-347V**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303251
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: 14FP4240C-347V
Description: 347V 1x4 4200 LUMEN LED FLAT PANEL LUMINAIRE WITH 4000K LEDS
Light Source: -
Ballast/Driver: -

Summary

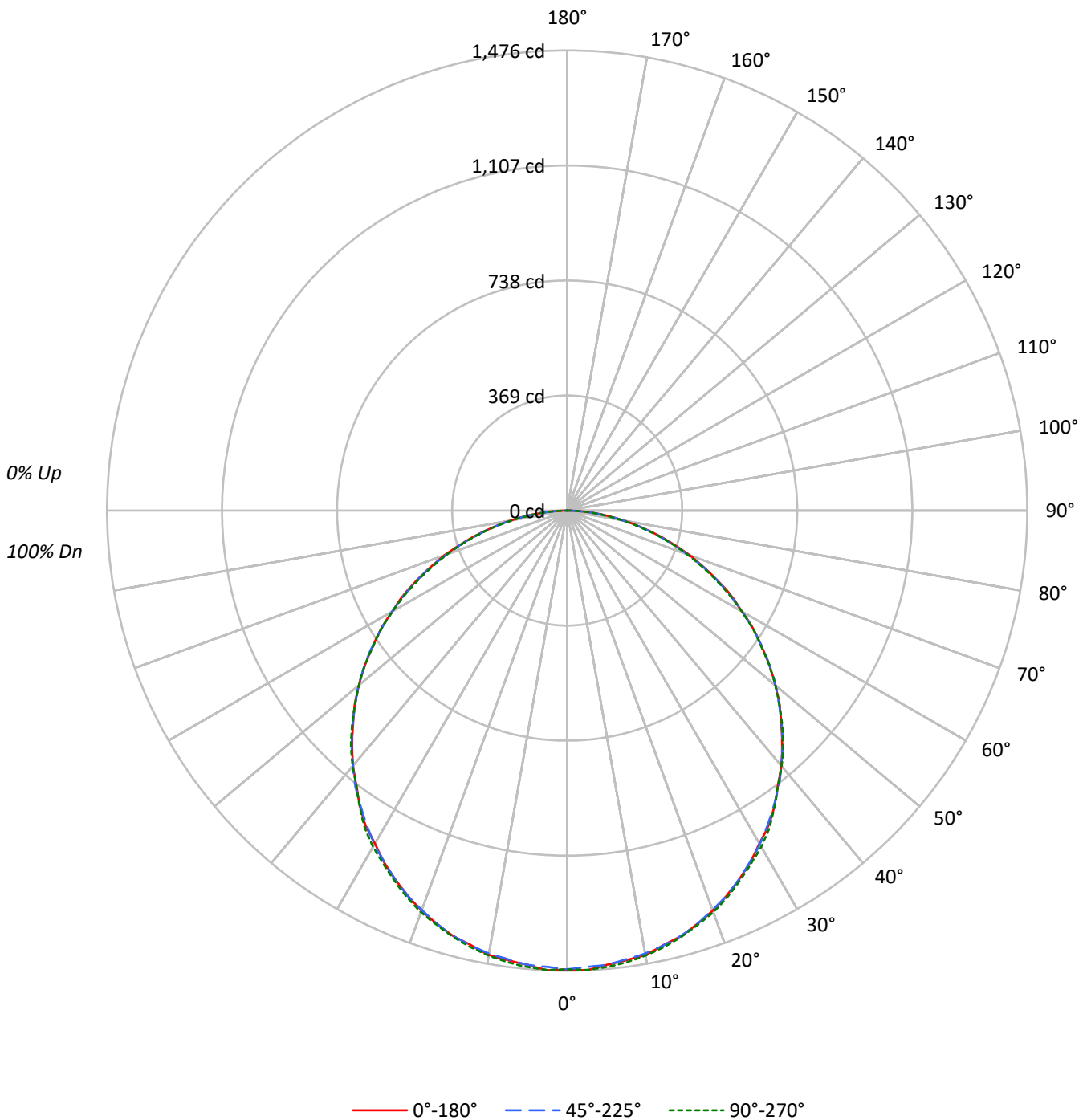
Lumens per Lamp: N/A
Luminaire Lumens: 4226.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	3960	3960	3960
5°	3951	3951	3969
10°	3955	3943	3961
15°	3937	3934	3943
20°	3910	3904	3926
25°	3874	3874	3890
30°	3831	3841	3869
35°	3807	3797	3811
40°	3753	3753	3760
45°	3696	3704	3713
50°	3649	3654	3649
55°	3576	3587	3566
60°	3484	3490	3479
65°	3405	3384	3356
70°	3286	3225	3225
75°	3101	3044	3032
80°	2842	2808	2740
85°	2560	2424	2387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	3.3
10°-20°	398.7	9.4
20°-30°	602.5	14.3
30°-40°	724.2	17.1
40°-50°	751.4	17.8
50°-60°	682.3	16.1
60°-70°	525.7	12.4
70°-80°	311.0	7.4
80°-90°	90.7	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°	1140.5	27.0
0°-40°	1864.7	44.1
0°-60°	3298.5	78.1
0°-90°	4226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1472	1472	1472	1472	1472	
5°	1463	1467	1463	1468	1469	139
15°	1413	1413	1412	1414	1415	398
25°	1305	1305	1305	1312	1310	601
35°	1159	1157	1156	1159	1160	724
45°	971	976	973	974	976	750
55°	762	766	764	763	760	682
65°	535	534	531	530	527	529
75°	298	297	293	292	292	314
85°	83	82	78	76	77	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1471.6	1471.6	1471.6	1471.6	1471.6
2.5°	1476.1	1467.2	1465.0	1473.8	1474.9
5°	1462.8	1467.2	1462.8	1468.3	1469.4
7.5°	1455.0	1456.1	1451.8	1461.7	1461.7
10°	1447.3	1445.1	1442.9	1445.1	1449.5
12.5°	1427.4	1434.0	1428.5	1435.2	1434.0
15°	1413.1	1413.1	1412.0	1414.2	1415.2
17.5°	1389.8	1389.8	1389.8	1393.2	1393.2
20°	1365.5	1366.6	1363.3	1370.0	1371.1
22.5°	1336.9	1336.9	1336.9	1342.3	1342.3
25°	1304.8	1304.8	1304.8	1311.5	1310.3
27.5°	1271.7	1273.8	1270.6	1277.1	1277.1
30°	1233.0	1235.1	1236.2	1237.4	1245.2
32.5°	1200.9	1198.7	1196.6	1200.9	1207.6
35°	1158.9	1156.8	1155.7	1158.9	1160.0
37.5°	1110.3	1114.8	1115.9	1113.7	1110.3
40°	1068.4	1068.4	1068.4	1070.5	1070.5
42.5°	1020.8	1021.9	1023.0	1021.9	1026.4
45°	971.1	975.6	973.3	974.5	975.6
47.5°	924.8	928.0	922.5	923.6	923.6
50°	871.7	871.7	872.8	871.7	871.7
52.5°	818.7	819.8	819.8	818.7	818.7
55°	762.3	765.6	764.5	763.4	760.1
57.5°	709.3	709.3	707.1	706.0	707.1
60°	647.4	651.8	648.5	646.4	646.4
62.5°	595.4	594.4	590.0	587.8	587.8
65°	534.7	533.6	531.4	530.4	527.0
67.5°	474.0	475.1	472.9	469.5	466.3
70°	417.6	415.5	409.9	408.8	409.9
72.5°	355.7	355.7	352.4	351.4	349.1
75°	298.3	297.2	292.8	291.6	291.6
77.5°	237.5	238.6	237.5	232.0	233.1
80°	183.4	182.3	181.2	180.1	176.8
82.5°	131.5	130.4	129.3	127.0	123.7
85°	82.9	81.8	78.5	76.2	77.3
87.5°	37.6	35.3	34.2	34.2	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)