

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: P303252

Luminaire Tested: **14FP4250C-347V**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303252
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: 14FP4250C-347V
Description: 347V 1x4 4200 LUMEN LED FLAT PANEL LUMINAIRE WITH 5000K LEDS
Light Source: -
Ballast/Driver: -

Summary

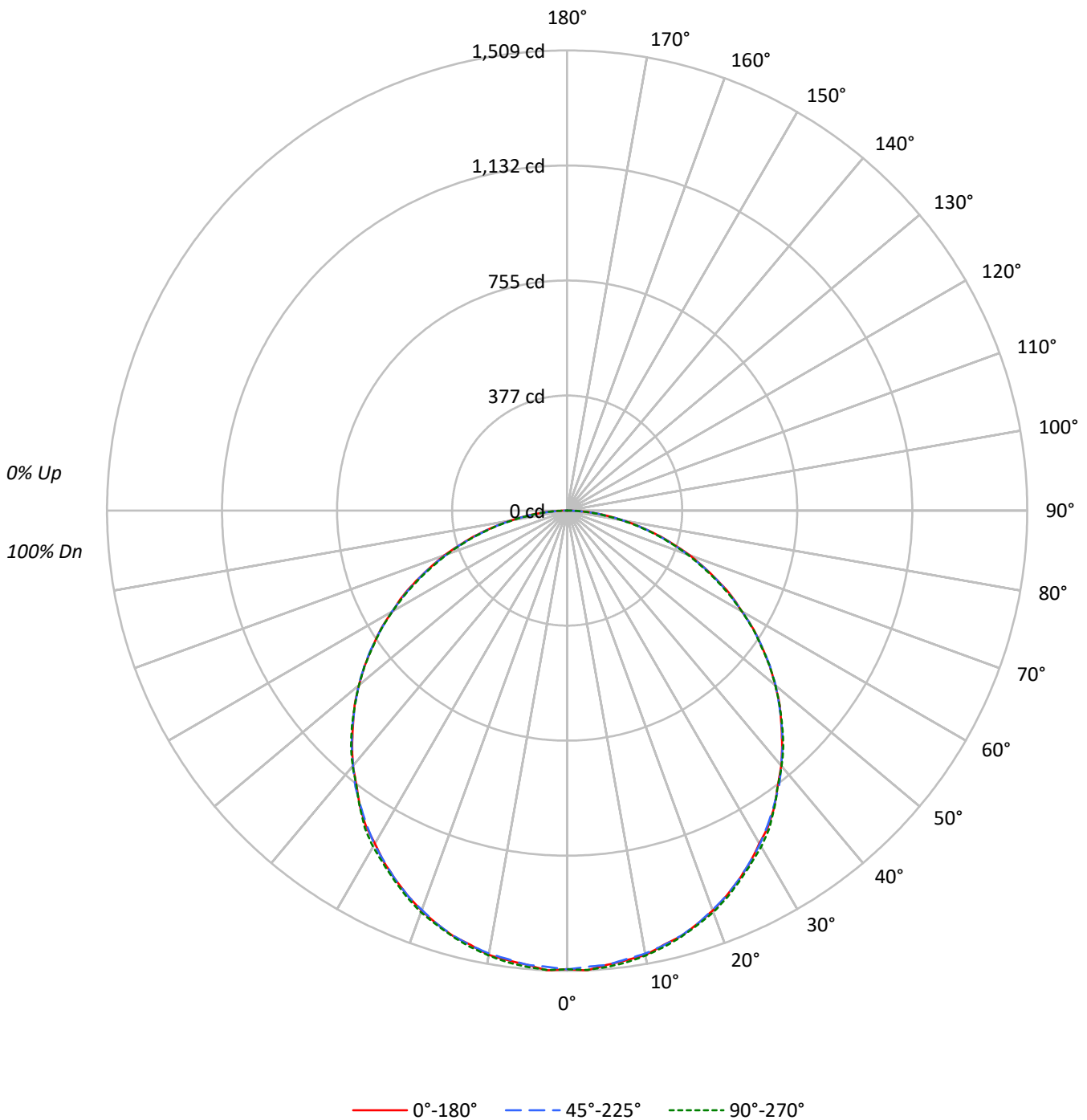
Lumens per Lamp: N/A
Luminaire Lumens: 4320.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	4048	4048	4048
5°	4039	4039	4058
10°	4043	4030	4049
15°	4024	4021	4030
20°	3997	3991	4014
25°	3960	3960	3977
30°	3916	3927	3955
35°	3892	3881	3895
40°	3836	3836	3844
45°	3778	3786	3795
50°	3731	3735	3731
55°	3656	3666	3645
60°	3562	3568	3556
65°	3480	3459	3430
70°	3359	3297	3297
75°	3170	3112	3099
80°	2904	2870	2802
85°	2615	2476	2439



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.3
10°-20°	407.6	9.4
20°-30°	615.9	14.3
30°-40°	740.3	17.1
40°-50°	768.2	17.8
50°-60°	697.5	16.1
60°-70°	537.4	12.4
70°-80°	317.9	7.4
80°-90°	92.7	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°	1165.9	27.0
0°-40°	1906.2	44.1
0°-60°	3371.8	78.1
0°-90°	4320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4320.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1504	1504	1504	1504	1504	
5°	1495	1500	1495	1501	1502	142
15°	1444	1444	1443	1446	1447	407
25°	1334	1334	1334	1341	1339	615
35°	1185	1182	1181	1185	1186	740
45°	993	997	995	996	997	767
55°	779	783	782	780	777	697
65°	547	546	543	542	539	540
75°	305	304	299	298	298	321
85°	85	84	80	78	79	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1504.3	1504.3	1504.3	1504.3	1504.3
2.5°	1508.9	1499.9	1497.5	1506.6	1507.7
5°	1495.3	1499.9	1495.3	1501.0	1502.1
7.5°	1487.4	1488.5	1484.0	1494.2	1494.2
10°	1479.5	1477.3	1475.0	1477.3	1481.7
12.5°	1459.2	1465.9	1460.3	1467.1	1465.9
15°	1444.5	1444.5	1443.4	1445.6	1446.7
17.5°	1420.8	1420.8	1420.8	1424.2	1424.2
20°	1395.9	1397.0	1393.7	1400.5	1401.6
22.5°	1366.6	1366.6	1366.6	1372.2	1372.2
25°	1333.8	1333.8	1333.8	1340.6	1339.4
27.5°	1300.0	1302.2	1298.8	1305.5	1305.5
30°	1260.4	1262.6	1263.7	1265.0	1272.9
32.5°	1227.6	1225.4	1223.2	1227.6	1234.4
35°	1184.7	1182.5	1181.4	1184.7	1185.8
37.5°	1135.0	1139.6	1140.7	1138.5	1135.0
40°	1092.1	1092.1	1092.1	1094.3	1094.3
42.5°	1043.5	1044.6	1045.8	1044.6	1049.2
45°	992.7	997.3	994.9	996.2	997.3
47.5°	945.3	948.7	943.0	944.1	944.1
50°	891.1	891.1	892.2	891.1	891.1
52.5°	836.9	838.0	838.0	836.9	836.9
55°	779.3	782.6	781.5	780.4	777.0
57.5°	725.0	725.0	722.8	721.7	722.8
60°	661.8	666.3	663.0	660.7	660.7
62.5°	608.7	607.6	603.1	600.9	600.9
65°	546.6	545.5	543.3	542.2	538.7
67.5°	484.5	485.7	483.4	480.0	476.6
70°	426.9	424.7	419.0	417.9	419.0
72.5°	363.6	363.6	360.3	359.2	356.8
75°	304.9	303.8	299.3	298.1	298.1
77.5°	242.8	243.9	242.8	237.1	238.3
80°	187.4	186.3	185.2	184.1	180.8
82.5°	134.4	133.3	132.2	129.8	126.5
85°	84.7	83.6	80.2	77.9	79.0
87.5°	38.4	36.1	35.0	35.0	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)