

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: P303253

Luminaire Tested: **22FP4235C-347V**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303253
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: 22FP4235C-347V
Description: 347V 2x2 4200 LUMEN LED FLAT PANEL LUMINAIRE WITH 3500K LEDS
Light Source: -
Ballast/Driver: -

Summary

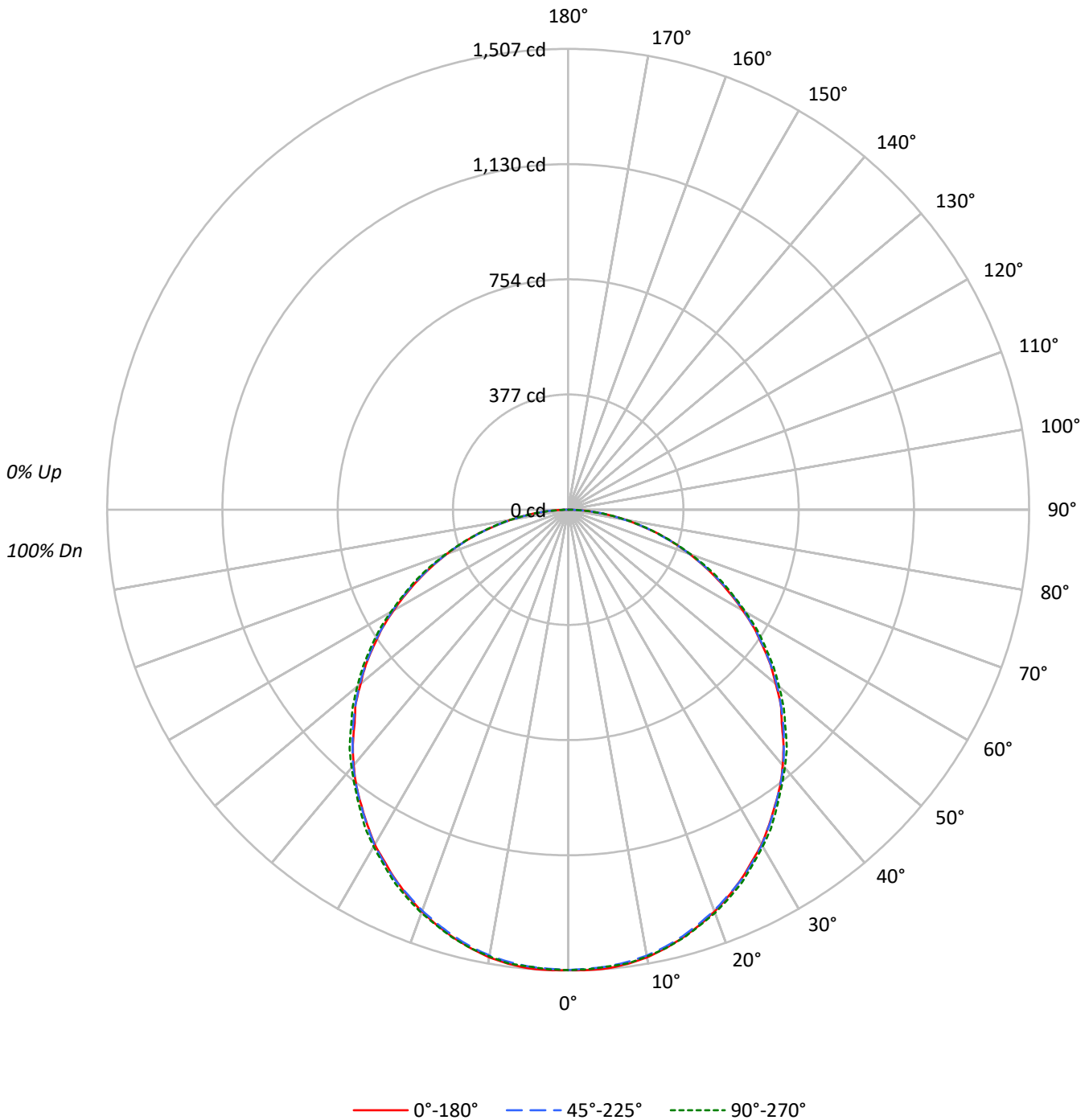
Lumens per Lamp: N/A
Luminaire Lumens: 4330.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	4051	4051	4051
5°	4067	4050	4050
10°	4062	4045	4054
15°	4036	4023	4041
20°	4004	3995	4018
25°	3965	3969	3993
30°	3929	3933	3953
35°	3874	3879	3905
40°	3832	3843	3871
45°	3756	3785	3821
50°	3709	3729	3769
55°	3639	3654	3698
60°	3547	3572	3606
65°	3433	3463	3514
70°	3312	3324	3361
75°	3180	3147	3180
80°	2957	2907	3005
85°	2578	2628	2578



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	3.3
10°-20°	408.1	9.4
20°-30°	616.3	14.2
30°-40°	741.0	17.1
40°-50°	768.6	17.8
50°-60°	697.8	16.1
60°-70°	538.4	12.4
70°-80°	321.6	7.4
80°-90°	95.6	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°	1167.0	27.0
0°-40°	1908.0	44.1
0°-60°	3374.5	77.9
0°-90°	4330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4330.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1506	1506	1506	1506	1506	
5°	1506	1501	1499	1499	1499	143
15°	1449	1447	1444	1446	1450	409
25°	1335	1335	1337	1338	1345	615
35°	1179	1184	1181	1184	1189	739
45°	987	993	995	999	1004	765
55°	776	779	779	784	788	694
65°	539	542	544	547	552	534
75°	306	303	303	304	306	321
85°	84	85	85	84	84	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1505.5	1505.5	1505.5	1505.5	1505.5
2.5°	1507.1	1507.1	1502.3	1503.9	1503.9
5°	1505.5	1500.8	1499.2	1499.2	1499.2
7.5°	1497.6	1492.9	1491.3	1492.9	1496.1
10°	1486.6	1480.3	1480.3	1480.3	1483.5
12.5°	1469.2	1466.1	1464.5	1462.9	1469.2
15°	1448.8	1447.2	1444.1	1445.7	1450.4
17.5°	1425.1	1422.0	1420.4	1425.1	1426.7
20°	1398.3	1395.1	1395.1	1399.8	1403.1
22.5°	1368.4	1368.4	1365.3	1370.0	1374.7
25°	1335.3	1335.3	1336.8	1338.4	1344.7
27.5°	1299.0	1300.6	1302.1	1305.3	1306.9
30°	1264.3	1262.7	1265.9	1269.0	1272.2
32.5°	1221.8	1224.9	1223.3	1231.2	1234.3
35°	1179.2	1183.9	1180.8	1183.9	1188.6
37.5°	1138.2	1139.8	1138.2	1144.5	1144.5
40°	1090.9	1090.9	1094.1	1098.8	1101.9
42.5°	1042.0	1043.5	1043.5	1050.0	1057.8
45°	986.9	993.1	994.7	999.4	1004.1
47.5°	942.7	941.2	942.7	947.4	955.3
50°	885.9	889.2	890.7	895.5	900.2
52.5°	833.9	835.5	835.5	840.2	846.5
55°	775.7	778.8	778.8	783.5	788.2
57.5°	720.4	718.8	722.0	726.7	733.1
60°	659.0	659.0	663.7	666.9	670.0
62.5°	599.0	600.6	603.7	608.5	608.5
65°	539.2	542.3	543.9	547.0	551.8
67.5°	479.2	480.8	482.4	485.5	490.2
70°	421.0	421.0	422.5	425.7	427.2
72.5°	362.6	361.0	361.0	367.3	365.7
75°	305.9	302.7	302.7	304.3	305.9
77.5°	244.3	242.8	245.9	247.5	247.5
80°	190.8	189.2	187.6	189.2	193.9
82.5°	135.5	135.5	133.9	135.5	135.5
85°	83.5	85.1	85.1	83.5	83.5
87.5°	39.4	37.8	37.8	36.3	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)