

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: P29737

Luminaire Tested: **14FP4250C**

Test Date: 06/15/17

Test Information

Test Method: LM-79-08
Report Number: P29737
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P29737)
Test Lab: INNOVATION CENTER(G2)
Test Date: 06/15/17
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14FP4250C
Description: 1x4, 4200LM, UNV LED FLAT PANEL FIXTURE
Light Source: -
Ballast/Driver: -

Summary

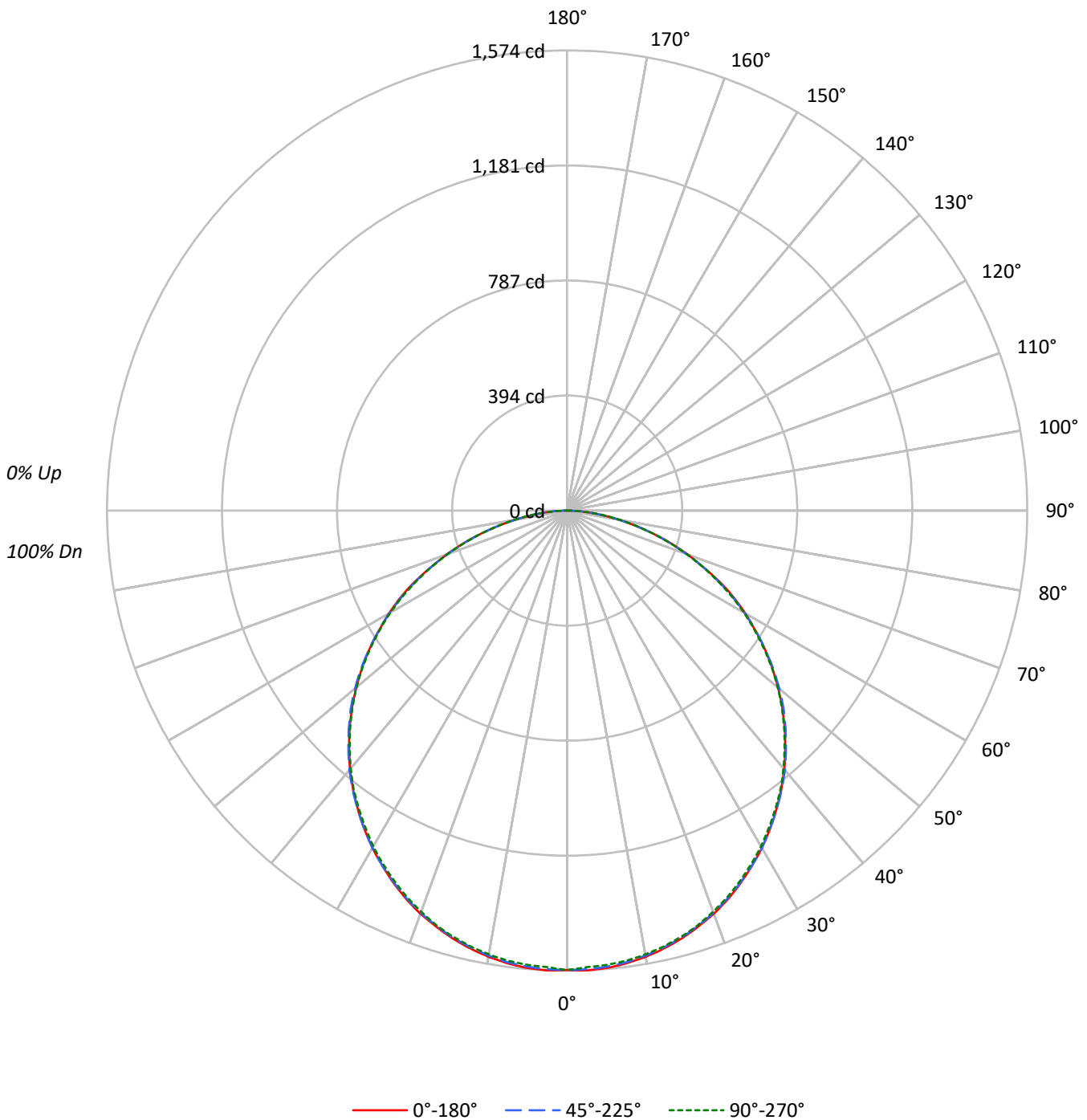
Lumens per Lamp: N/A
Luminaire Lumens: 4519.3 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 39.2
Input Voltage (V): 120.0
Input Current (Ain): 0.329
Voltage Rise (V): NR
Power Factor: 0.9964
Total Harmonic Distortion (THDi): 10.5%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 24 HR
Ambient Temperature (°C): 25.3
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	96	106	102	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	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°	4228	4228	4228
5°	4242	4230	4214
10°	4235	4223	4212
15°	4220	4211	4203
20°	4202	4193	4182
25°	4173	4167	4152
30°	4140	4140	4121
35°	4100	4103	4083
40°	4059	4070	4044
45°	4005	4021	3993
50°	3940	3966	3936
55°	3875	3879	3855
60°	3785	3780	3757
65°	3665	3626	3606
70°	3445	3419	3419
75°	3170	3158	3158
80°	2760	2777	2841
85°	2288	2353	2448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	3.3
10°-20°	426.7	9.4
20°-30°	646.2	14.3
30°-40°	779.4	17.2
40°-50°	811.2	17.9
50°-60°	735.9	16.3
60°-70°	562.2	12.4
70°-80°	320.8	7.1
80°-90°	88.0	1.9
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°	1221.8	27.0
0°-40°	2001.2	44.3
0°-60°	3548.3	78.5
0°-90°	4519.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4519.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1571	1571	1571	1571	1571	
5°	1570	1569	1566	1567	1560	149
15°	1515	1512	1512	1514	1509	428
25°	1406	1400	1404	1402	1398	648
35°	1248	1242	1249	1245	1243	781
45°	1052	1050	1056	1050	1049	811
55°	826	824	827	820	822	737
65°	576	568	570	564	566	567
75°	305	302	304	302	304	323
85°	74	74	76	76	79	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1571.3	1571.3	1571.3	1571.3	1571.3
2.5°	1574.5	1573.5	1570.4	1572.4	1563.1
5°	1570.4	1569.3	1566.1	1567.3	1560.0
7.5°	1562.1	1560.0	1558.0	1558.0	1552.8
10°	1549.7	1547.7	1545.6	1546.7	1541.5
12.5°	1534.3	1530.2	1530.2	1532.2	1527.1
15°	1514.7	1511.6	1511.6	1513.8	1508.7
17.5°	1492.2	1488.0	1489.1	1492.2	1487.0
20°	1467.4	1462.2	1464.3	1465.4	1460.2
22.5°	1438.6	1433.5	1435.4	1434.4	1431.4
25°	1405.6	1400.4	1403.5	1401.5	1398.3
27.5°	1369.5	1364.5	1369.5	1367.4	1363.4
30°	1332.5	1327.4	1332.5	1329.4	1326.3
32.5°	1291.3	1286.2	1291.3	1289.3	1285.0
35°	1248.1	1241.8	1249.0	1245.0	1242.9
37.5°	1202.6	1197.6	1204.8	1199.7	1199.7
40°	1155.4	1150.2	1158.5	1152.2	1151.2
42.5°	1104.0	1101.9	1108.0	1101.9	1100.8
45°	1052.4	1050.3	1056.5	1050.3	1049.3
47.5°	997.9	994.7	1004.0	995.8	995.8
50°	941.1	940.2	947.4	940.2	940.2
52.5°	884.6	882.4	888.7	882.4	882.4
55°	825.9	823.8	826.9	819.7	821.7
57.5°	763.0	761.0	765.1	759.9	759.9
60°	703.3	698.1	702.4	696.1	698.1
62.5°	641.6	637.4	636.4	630.2	633.2
65°	575.6	568.4	569.5	564.3	566.4
67.5°	502.5	502.5	502.5	499.5	500.5
70°	437.8	434.6	434.6	433.5	434.6
72.5°	371.6	367.6	368.6	366.6	367.6
75°	304.9	301.8	303.7	301.8	303.7
77.5°	239.9	236.9	238.9	238.9	241.0
80°	178.1	177.2	179.2	179.2	183.3
82.5°	122.5	122.5	125.7	124.5	128.8
85°	74.1	74.1	76.2	76.2	79.3
87.5°	33.1	33.1	34.0	33.1	34.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)