

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: P257270

Luminaire Tested: **14FP4240C-EL14W**

Test Date: 06/15/17

Test Information

Test Method: LM-79-08
Report Number: P257270
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: 14FP4240C-EL14W
Description: 1x4, 4200LM, UNV LED FLAT PANEL FIXTURE - Emergency Mode
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1566.7 lumens
Efficiency: N/A
Efficacy: 111.9 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

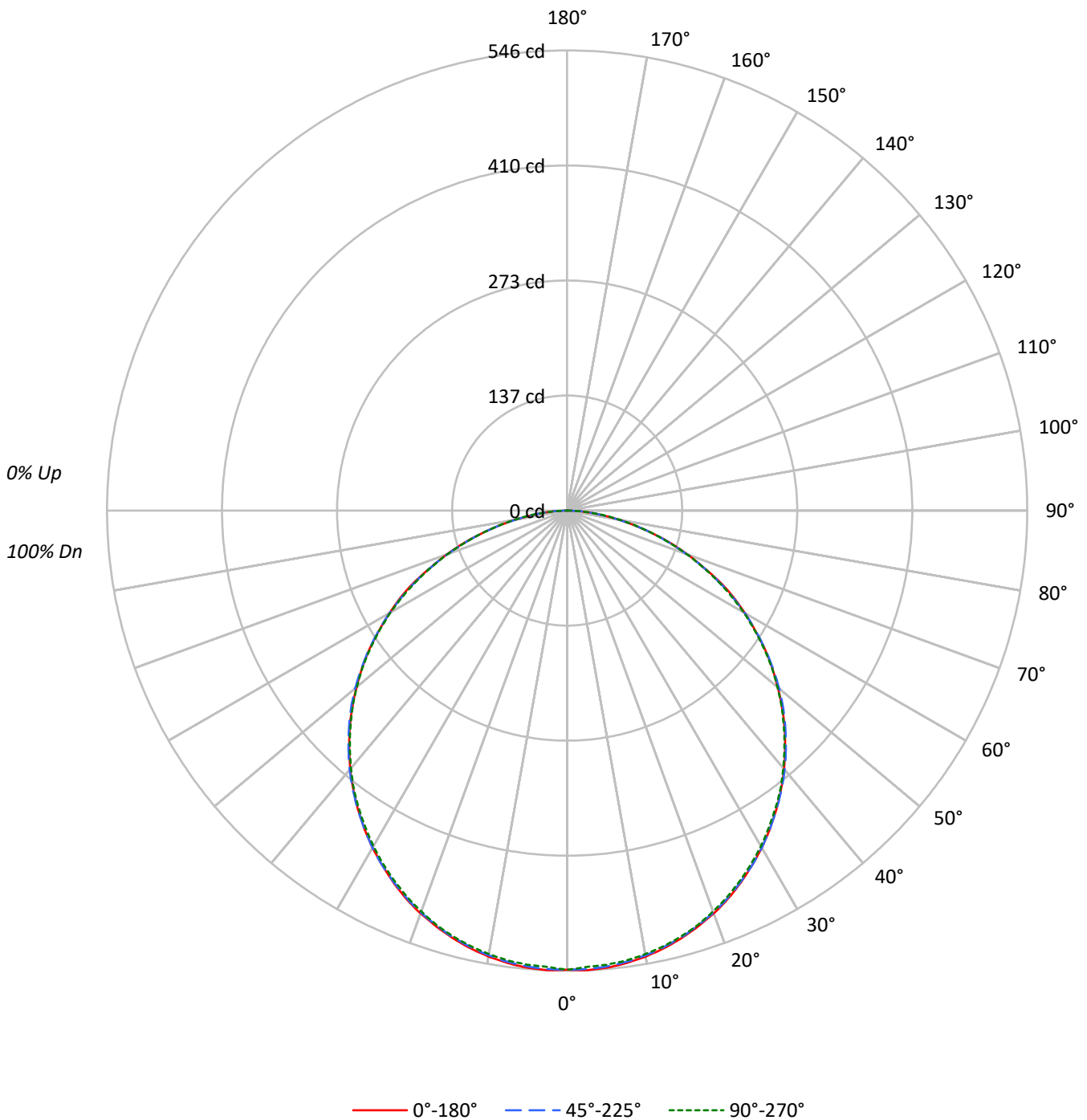
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): 25.3
Test Distance: 25 FT



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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°	1466	1466	1466
5°	1471	1467	1461
10°	1468	1464	1460
15°	1463	1460	1457
20°	1457	1454	1450
25°	1447	1445	1439
30°	1436	1436	1429
35°	1421	1422	1416
40°	1407	1411	1402
45°	1389	1394	1384
50°	1366	1375	1364
55°	1343	1345	1337
60°	1312	1311	1302
65°	1271	1257	1251
70°	1194	1186	1186
75°	1099	1095	1095
80°	958	962	984
85°	794	815	849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	3.3
10°-20°	147.9	9.4
20°-30°	224.0	14.3
30°-40°	270.2	17.2
40°-50°	281.2	17.9
50°-60°	255.1	16.3
60°-70°	194.9	12.4
70°-80°	111.2	7.1
80°-90°	30.5	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°	423.6	27.0
0°-40°	693.8	44.3
0°-60°	1230.1	78.5
0°-90°	1566.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1566.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	545	545	545	545	545	
5°	544	544	543	543	541	52
15°	525	524	524	525	523	148
25°	487	486	487	486	485	225
35°	433	430	433	432	431	271
45°	365	364	366	364	364	281
55°	286	286	287	284	285	256
65°	200	197	197	196	196	196
75°	106	105	105	105	105	112
85°	26	26	26	26	28	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	544.8	544.8	544.8	544.8	544.8
2.5°	545.9	545.5	544.4	545.1	541.9
5°	544.4	544.1	543.0	543.4	540.9
7.5°	541.6	540.9	540.1	540.1	538.4
10°	537.3	536.6	535.9	536.2	534.4
12.5°	531.9	530.5	530.5	531.2	529.4
15°	525.1	524.1	524.1	524.8	523.0
17.5°	517.3	515.9	516.2	517.3	515.5
20°	508.7	506.9	507.7	508.0	506.2
22.5°	498.7	496.9	497.7	497.3	496.2
25°	487.3	485.5	486.6	485.9	484.8
27.5°	474.8	473.0	474.8	474.1	472.7
30°	462.0	460.2	462.0	460.9	459.8
32.5°	447.7	445.9	447.7	447.0	445.5
35°	432.7	430.5	433.0	431.6	430.9
37.5°	417.0	415.2	417.7	415.9	415.9
40°	400.6	398.8	401.6	399.5	399.1
42.5°	382.7	382.0	384.1	382.0	381.6
45°	364.9	364.1	366.3	364.1	363.8
47.5°	345.9	344.9	348.1	345.2	345.2
50°	326.3	325.9	328.4	325.9	325.9
52.5°	306.7	305.9	308.1	305.9	305.9
55°	286.3	285.6	286.7	284.2	284.9
57.5°	264.5	263.8	265.3	263.5	263.5
60°	243.8	242.0	243.5	241.3	242.0
62.5°	222.4	221.0	220.6	218.5	219.6
65°	199.6	197.1	197.4	195.6	196.4
67.5°	174.2	174.2	174.2	173.1	173.5
70°	151.7	150.7	150.7	150.3	150.7
72.5°	128.9	127.4	127.8	127.1	127.4
75°	105.7	104.6	105.3	104.6	105.3
77.5°	83.2	82.1	82.8	82.8	83.5
80°	61.8	61.4	62.1	62.1	63.5
82.5°	42.5	42.5	43.6	43.2	44.6
85°	25.7	25.7	26.4	26.4	27.5
87.5°	11.4	11.4	11.8	11.4	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)