

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: P257269

Luminaire Tested: **24FP4740C-EL14W**

Test Date: 06/14/17

**Test Information**

Test Method: LM-79-08  
Report Number: P257269  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 06/14/17  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24FP4740C-EL14W  
Description: 2x4,4700LM, UNV LED FLAT PANEL FIXTURE - Emergency Mode  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1685.8 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

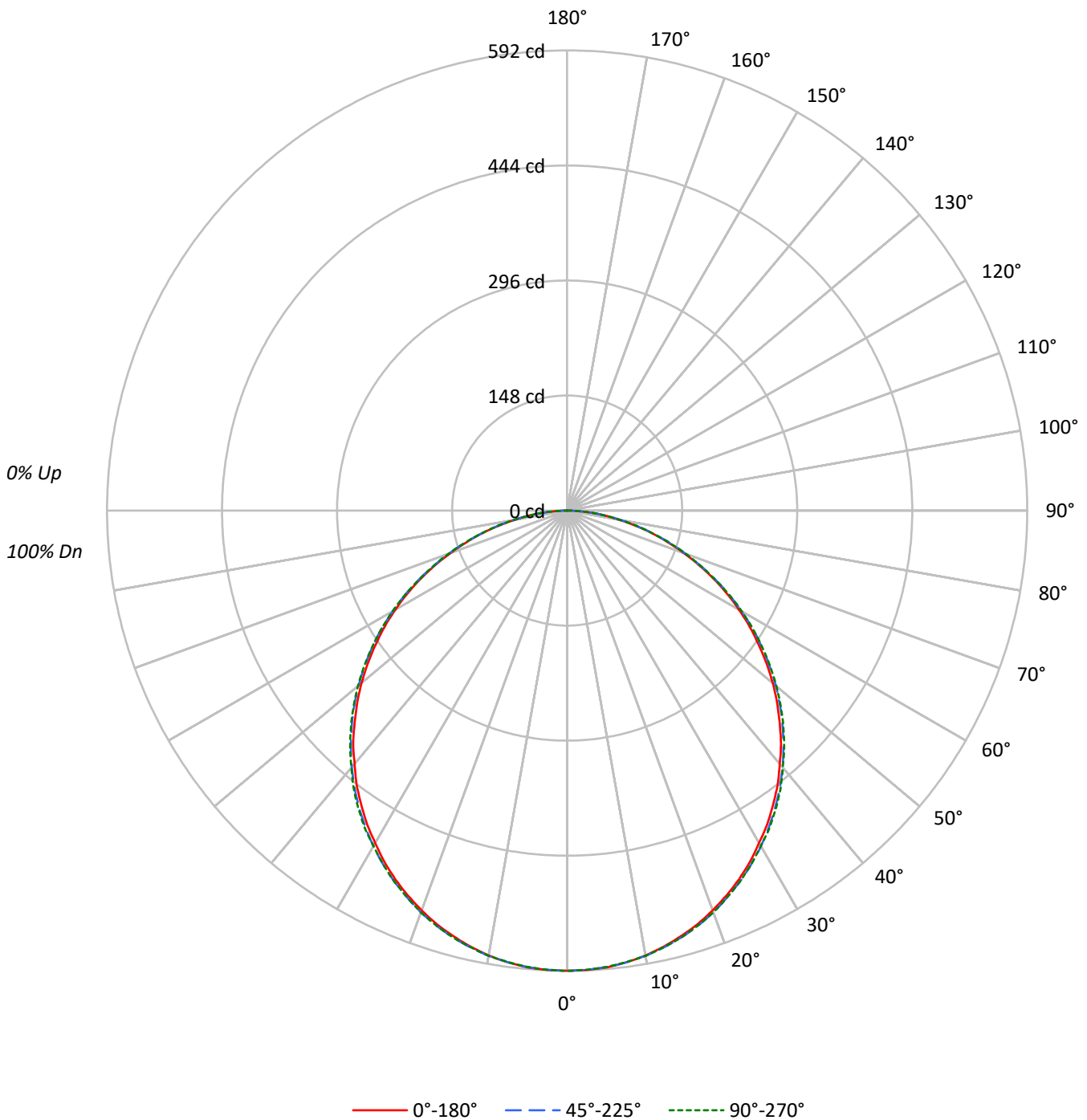
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): 25.2  
Test Distance: 25 FT



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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	91	88	90	87	85	83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	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	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
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°	797	797	797
5°	797	796	796
10°	794	795	795
15°	789	792	792
20°	784	788	788
25°	777	781	781
30°	767	775	774
35°	759	767	769
40°	747	757	758
45°	736	746	749
50°	723	734	736
55°	706	717	719
60°	688	697	699
65°	663	670	670
70°	629	637	639
75°	590	597	597
80°	527	543	543
85°	477	482	477



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.0	3.3
10°-20°	160.2	9.5
20°-30°	242.0	14.4
30°-40°	291.0	17.3
40°-50°	301.1	17.9
50°-60°	271.6	16.1
60°-70°	207.3	12.3
70°-80°	121.0	7.2
80°-90°	35.5	2.1
90°-100°	0.2	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°	458.1	27.2
0°-40°	749.1	44.4
0°-60°	1321.8	78.4
0°-90°	1685.6	100.0
90°-120°	0.2	0.0
90°-150°	0.2	0.0
90°-180°	0.0	0.0
0°-180°	1685.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	590	589	590	589	589	56
15°	567	566	568	568	568	160
25°	523	523	526	526	526	241
35°	462	462	467	467	468	289
45°	387	387	392	392	394	298
55°	301	301	306	305	306	269
65°	208	208	211	210	210	206
75°	114	113	115	115	115	120
85°	31	30	31	31	31	33
90°	1	1	2	2	2	2
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	592.0	592.0	592.0	592.0	592.0
2.5°	591.6	591.3	591.3	590.9	591.3
5°	589.9	589.2	589.6	589.2	589.2
7.5°	586.1	585.4	586.1	585.7	585.7
10°	581.2	580.5	581.6	581.2	581.6
12.5°	574.6	573.9	575.7	575.3	575.3
15°	566.7	566.3	568.4	568.0	568.4
17.5°	558.0	557.3	560.1	559.4	559.7
20°	547.2	547.2	550.3	549.6	550.0
22.5°	535.8	536.1	538.5	538.5	538.5
25°	523.3	522.9	526.4	526.1	526.4
27.5°	509.4	509.4	513.2	512.9	512.9
30°	493.8	494.8	498.6	498.3	498.3
32.5°	478.9	478.9	483.0	483.0	484.4
35°	461.9	462.2	466.7	466.7	468.1
37.5°	444.9	444.9	449.4	449.7	451.1
40°	425.4	426.5	431.0	431.0	431.7
42.5°	407.4	407.4	411.9	412.2	413.3
45°	386.6	387.3	392.1	392.1	393.5
47.5°	366.4	366.8	371.6	371.3	372.7
50°	345.3	345.6	350.5	350.1	351.5
52.5°	323.4	323.8	328.3	327.9	329.3
55°	300.8	300.8	305.7	304.7	306.4
57.5°	278.6	278.3	283.2	281.8	283.2
60°	255.7	255.0	258.9	258.2	259.6
62.5°	232.1	231.4	235.3	234.6	235.3
65°	208.2	207.9	210.6	209.6	210.3
67.5°	183.9	184.3	186.3	185.6	186.0
70°	160.0	159.6	162.0	162.7	162.4
72.5°	136.0	136.4	138.5	138.5	138.1
75°	113.5	113.1	114.9	114.9	114.9
77.5°	89.9	90.6	92.0	92.6	92.3
80°	68.0	68.7	70.1	70.4	70.1
82.5°	49.3	48.9	50.0	50.0	49.6
85°	30.9	30.5	31.2	31.2	30.9
87.5°	14.2	13.9	14.6	14.6	13.9
90°	0.7	1.0	2.1	2.4	2.4
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)