

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: P29730-R2

Luminaire Tested: **22FP2830C9**

Test Date: 06/12/17

**Test Information**

Test Method: LM-79-08  
Report Number: P29730-R2  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P29730-R2)  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 06/12/17  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22FP2830C9  
Description: 2x2,3200LM, UNV LED FLAT PANEL FIXTURE  
Light Source: -  
Ballast/Driver: -

**Summary**

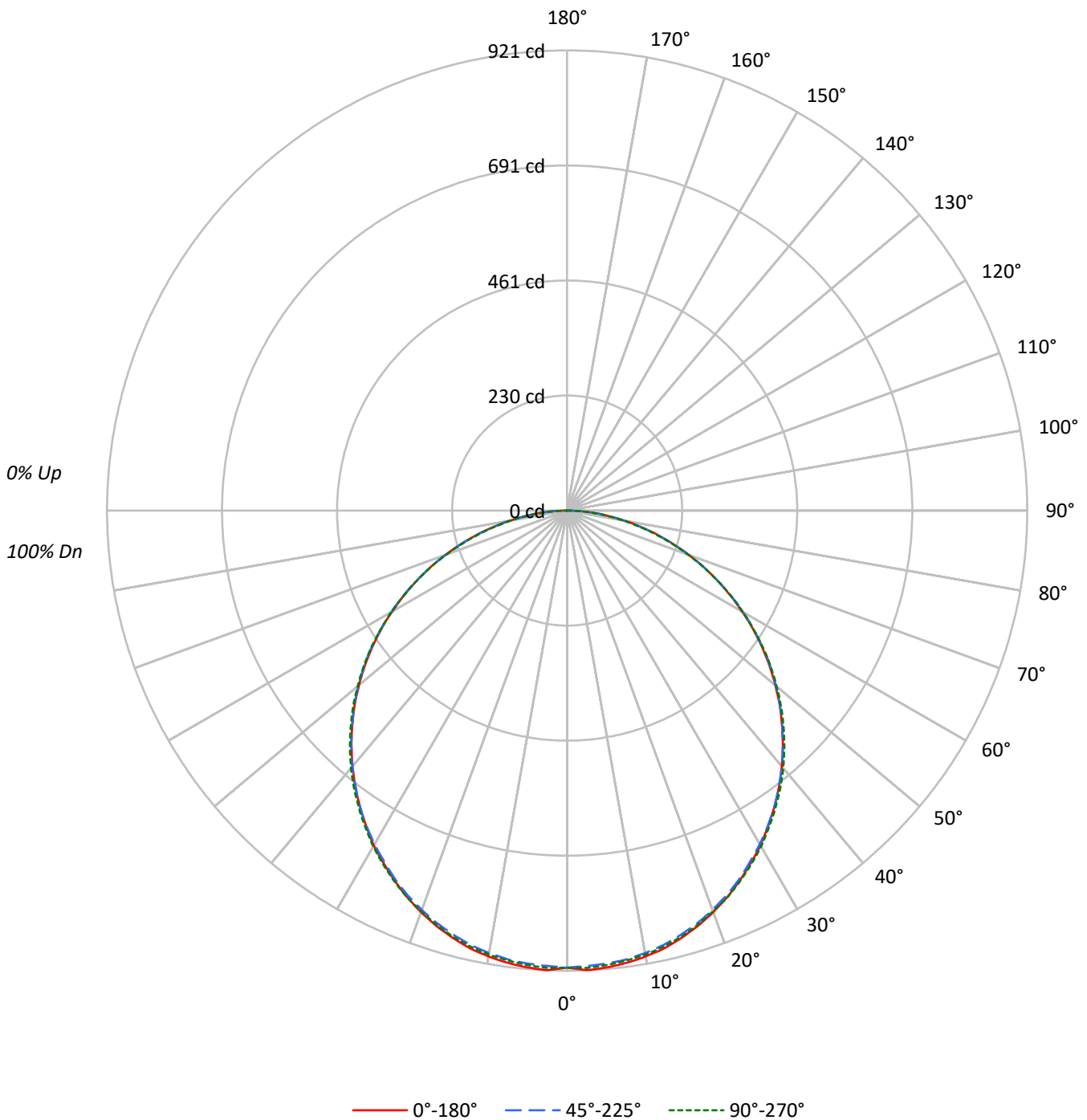
Lumens per Lamp: N/A  
Luminaire Lumens: 2639.6 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 29.4  
Input Voltage (V): 120.0  
Input Current (Ain): 0.247  
Voltage Rise (V): NR  
Power Factor: 0.9974  
Total Harmonic Distortion (THDi): 9.54%  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 24 HR  
Ambient Temperature (°C): 25.5  
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	74	81	77	73	78	74	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	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	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	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	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°	2461	2461	2461
5°	2479	2458	2467
10°	2476	2457	2465
15°	2466	2449	2460
20°	2449	2436	2444
25°	2427	2417	2431
30°	2405	2395	2412
35°	2375	2375	2388
40°	2347	2350	2363
45°	2314	2316	2331
50°	2277	2283	2293
55°	2233	2244	2247
60°	2179	2191	2187
65°	2115	2120	2115
70°	2036	2043	2024
75°	1944	1935	1904
80°	1819	1796	1748
85°	1670	1646	1575



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.5	3.3
10°-20°	248.0	9.4
20°-30°	375.0	14.2
30°-40°	451.5	17.1
40°-50°	469.1	17.8
50°-60°	425.9	16.1
60°-70°	328.6	12.4
70°-80°	195.9	7.4
80°-90°	59.1	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°	709.5	26.9
0°-40°	1161.0	44.0
0°-60°	2056.0	77.9
0°-90°	2639.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2639.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	918	908	910	907	913	87
15°	885	877	879	876	883	250
25°	817	811	814	811	819	377
35°	723	718	723	720	727	453
45°	608	605	609	608	613	469
55°	476	474	478	477	479	425
65°	332	331	333	331	332	329
75°	187	185	186	184	183	197
85°	54	52	53	51	51	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	914.6	914.6	914.6	914.6	914.6
2.5°	920.8	912.3	912.3	910.0	916.2
5°	917.7	908.5	910.0	906.9	913.1
7.5°	913.1	903.8	906.2	902.2	908.5
10°	906.2	896.8	899.2	895.4	902.2
12.5°	897.7	888.4	890.7	887.6	893.8
15°	885.3	876.8	879.1	876.0	883.0
17.5°	871.4	863.6	866.0	862.9	869.1
20°	855.2	848.2	850.5	847.4	853.6
22.5°	837.4	830.4	833.6	831.2	838.2
25°	817.3	811.1	814.2	811.1	818.8
27.5°	795.7	790.3	792.6	790.3	798.0
30°	774.1	767.8	770.9	768.7	776.4
32.5°	748.6	743.9	747.8	745.5	751.7
35°	723.1	718.4	723.1	720.0	726.9
37.5°	696.8	692.2	696.0	693.7	700.7
40°	668.2	665.1	669.0	666.7	672.8
42.5°	638.8	635.8	639.6	638.1	643.5
45°	608.0	604.9	608.7	608.0	612.6
47.5°	577.0	574.0	577.8	577.0	581.0
50°	543.8	542.3	545.4	543.8	547.7
52.5°	510.6	509.1	512.9	511.4	513.8
55°	475.9	474.3	478.2	476.6	479.0
57.5°	441.1	439.6	442.6	441.9	442.6
60°	404.8	404.0	407.1	404.0	406.3
62.5°	368.5	367.7	370.0	368.5	369.2
65°	332.2	330.6	332.9	331.4	332.2
67.5°	295.9	294.3	296.6	295.1	295.1
70°	258.8	258.0	259.6	258.8	257.2
72.5°	222.4	221.0	223.3	221.7	219.4
75°	187.0	185.4	186.1	183.8	183.1
77.5°	150.6	149.1	149.9	148.4	146.8
80°	117.4	115.9	115.9	114.3	112.8
82.5°	85.0	83.4	83.4	81.9	81.2
85°	54.1	52.5	53.3	51.0	51.0
87.5°	24.8	23.9	24.8	23.9	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)