

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: P29736

Luminaire Tested: **14FP3830C9**

Test Date: 06/15/17

**Test Information**

Test Method: LM-79-08  
Report Number: P29736  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P29736)  
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: 14FP3830C9  
Description: 1x4, 4200LM, UNV LED FLAT PANEL FIXTURE  
Light Source: -  
Ballast/Driver: -

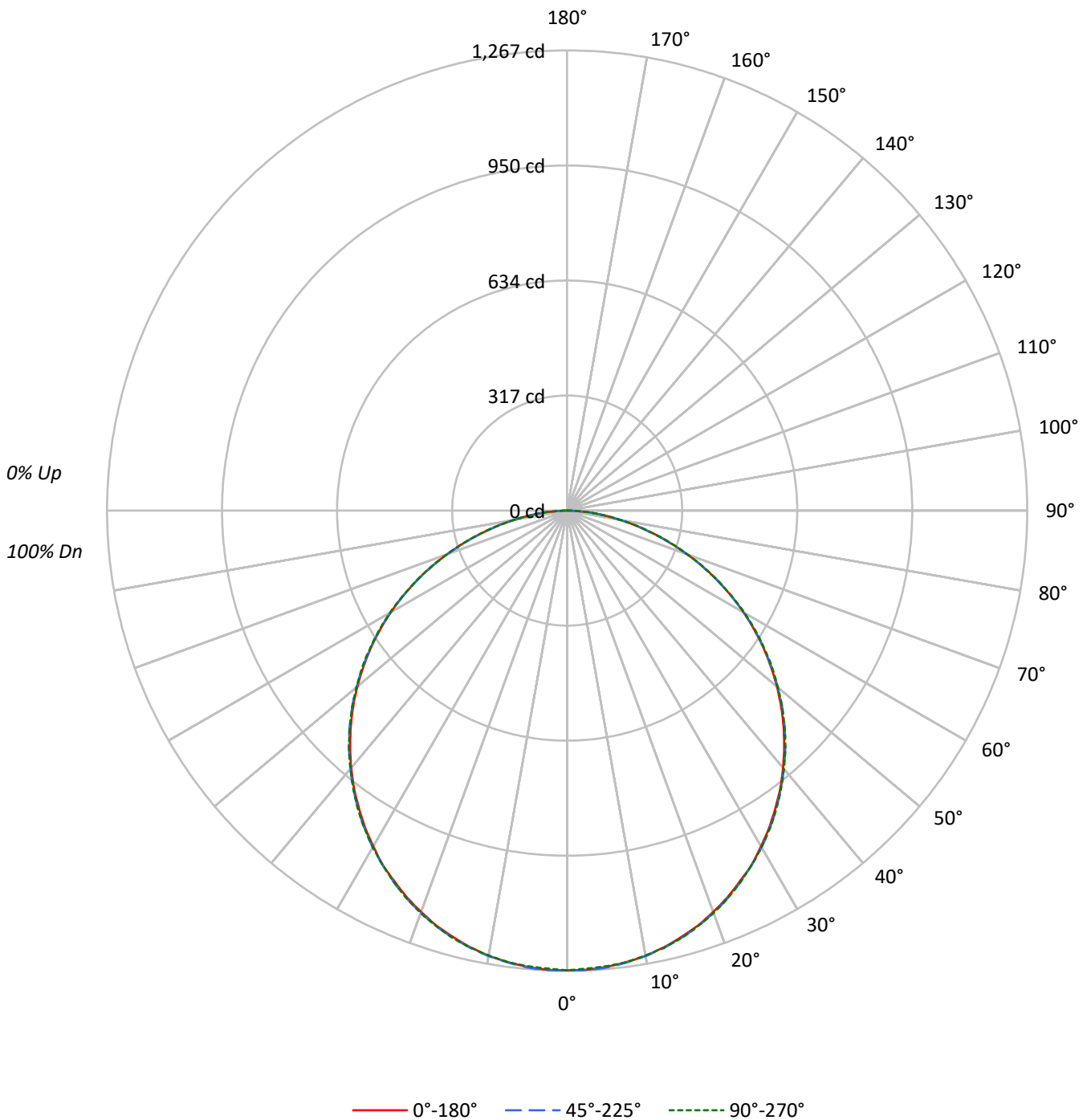
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3644.6 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.5  
Input Voltage (V): 120.0  
Input Current (Ain): 0.324  
Voltage Rise (V): NR  
Power Factor: 0.9963  
Total Harmonic Distortion (THDi): 10.8%  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 24 HR  
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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50					50			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3407	3407	3407
5°	3406	3411	3402
10°	3401	3403	3399
15°	3385	3392	3394
20°	3367	3374	3377
25°	3343	3353	3350
30°	3318	3328	3325
35°	3284	3296	3298
40°	3250	3262	3262
45°	3207	3225	3222
50°	3157	3171	3167
55°	3097	3104	3111
60°	3019	3024	3037
65°	2914	2904	2925
70°	2770	2757	2777
75°	2571	2562	2588
80°	2297	2323	2334
85°	1998	2022	2022



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.9	3.3
10°-20°	343.5	9.4
20°-30°	520.0	14.3
30°-40°	627.0	17.2
40°-50°	652.0	17.9
50°-60°	591.2	16.2
60°-70°	452.9	12.4
70°-80°	262.7	7.2
80°-90°	75.3	2.1
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°	983.4	27.0
0°-40°	1610.4	44.2
0°-60°	2853.6	78.3
0°-90°	3644.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3644.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1266	1266	1266	1266	1266	
5°	1261	1261	1263	1263	1259	120
15°	1215	1215	1218	1220	1218	343
25°	1126	1127	1129	1129	1128	519
35°	1000	1000	1003	1004	1004	626
45°	843	844	848	846	847	650
55°	660	662	662	662	663	590
65°	458	460	456	457	459	453
75°	247	249	246	248	249	262
85°	65	66	66	67	66	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1266.0	1266.0	1266.0	1266.0	1266.0
2.5°	1265.2	1265.2	1266.8	1266.8	1261.8
5°	1261.0	1261.0	1262.7	1262.7	1259.4
7.5°	1253.7	1254.5	1255.3	1256.1	1253.7
10°	1244.7	1243.8	1245.4	1246.3	1243.8
12.5°	1231.5	1231.5	1233.2	1234.1	1232.4
15°	1215.2	1215.2	1217.6	1220.1	1218.4
17.5°	1198.0	1197.2	1199.7	1201.2	1199.7
20°	1175.9	1176.7	1178.3	1180.0	1179.1
22.5°	1152.9	1152.9	1155.4	1155.4	1155.4
25°	1125.9	1126.8	1129.2	1129.2	1128.4
27.5°	1099.8	1098.1	1100.5	1101.4	1100.5
30°	1067.7	1067.7	1071.0	1071.9	1070.2
32.5°	1035.0	1035.0	1038.3	1038.3	1038.3
35°	999.8	999.8	1003.2	1003.9	1003.9
37.5°	963.8	963.0	967.0	967.0	967.0
40°	925.3	925.3	928.6	928.6	928.6
42.5°	884.4	885.1	889.3	889.3	889.3
45°	842.6	844.2	847.5	845.9	846.7
47.5°	799.2	800.8	803.3	801.7	803.3
50°	754.1	756.6	757.5	756.6	756.6
52.5°	707.4	710.0	710.0	710.0	712.4
55°	660.1	662.5	661.7	661.7	663.2
57.5°	610.9	612.5	612.5	610.9	614.2
60°	561.0	562.5	561.8	561.8	564.2
62.5°	510.2	511.8	509.3	509.3	511.8
65°	457.7	460.3	456.1	456.9	459.4
67.5°	405.3	406.9	403.6	404.5	406.2
70°	352.1	352.9	350.4	352.1	352.9
72.5°	298.9	298.9	298.1	299.8	300.5
75°	247.3	248.9	246.4	248.1	248.9
77.5°	197.3	199.0	197.3	199.0	199.0
80°	148.2	149.0	149.9	150.6	150.6
82.5°	104.8	106.4	105.7	107.3	106.4
85°	64.7	66.4	65.5	67.2	65.5
87.5°	28.7	30.3	29.5	30.3	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)