

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: **14FP4235C**

Test Date: 06/15/17

Test Information

Test Method: LM-79-08
Report Number: 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: 14FP4235C
Description: 1x4, 4200LM, UNV LED FLAT PANEL FIXTURE
Light Source: -
Ballast/Driver: -

Summary

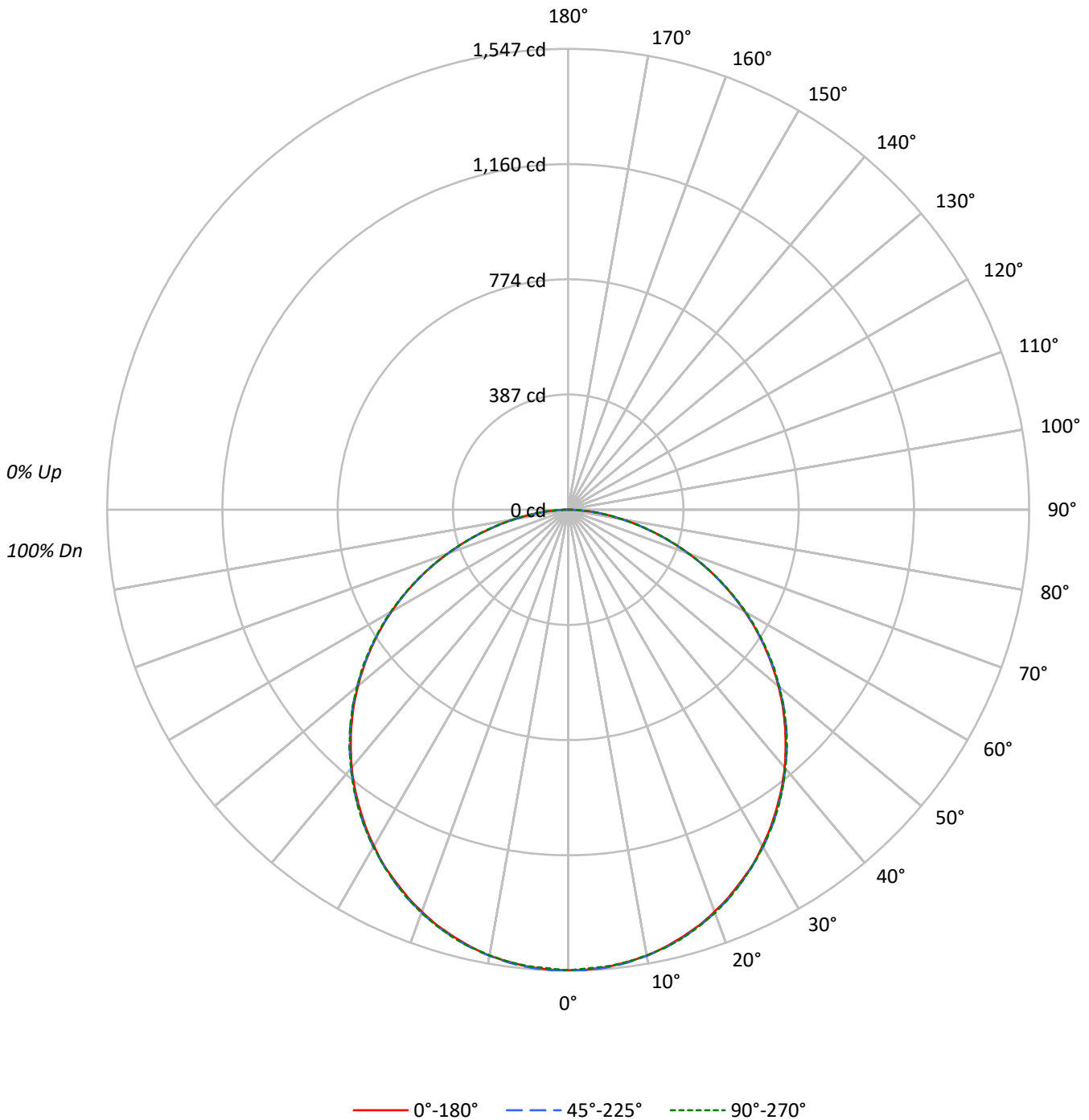
Lumens per Lamp: N/A
Luminaire Lumens: 4450.8 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	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°	4160	4160	4160
5°	4160	4165	4155
10°	4153	4156	4151
15°	4134	4143	4145
20°	4112	4121	4124
25°	4083	4094	4092
30°	4052	4064	4061
35°	4011	4024	4028
40°	3969	3984	3984
45°	3916	3939	3935
50°	3856	3872	3868
55°	3781	3791	3800
60°	3687	3692	3708
65°	3559	3547	3572
70°	3383	3367	3391
75°	3140	3130	3161
80°	2805	2836	2851
85°	2439	2470	2470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	3.3
10°-20°	419.5	9.4
20°-30°	635.1	14.3
30°-40°	765.7	17.2
40°-50°	796.2	17.9
50°-60°	722.0	16.2
60°-70°	553.1	12.4
70°-80°	320.8	7.2
80°-90°	92.0	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°	1201.0	27.0
0°-40°	1966.7	44.2
0°-60°	3484.9	78.3
0°-90°	4450.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4450.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1546	1546	1546	1546	1546	
5°	1540	1540	1542	1542	1538	146
15°	1484	1484	1487	1490	1488	419
25°	1375	1376	1379	1379	1378	634
35°	1221	1221	1225	1226	1226	764
45°	1029	1031	1035	1033	1034	794
55°	806	809	808	808	810	720
65°	559	562	557	558	561	553
75°	302	304	301	303	304	320
85°	79	81	80	82	80	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1546	1546	1546	1546	1546
2.5°	1545	1545	1547	1547	1541
5°	1540	1540	1542	1542	1538
7.5°	1531	1532	1533	1534	1531
10°	1520	1519	1521	1522	1519
12.5°	1504	1504	1506	1507	1505
15°	1484	1484	1487	1490	1488
17.5°	1463	1462	1465	1467	1465
20°	1436	1437	1439	1441	1440
22.5°	1408	1408	1411	1411	1411
25°	1375	1376	1379	1379	1378
27.5°	1343	1341	1344	1345	1344
30°	1304	1304	1308	1309	1307
32.5°	1264	1264	1268	1268	1268
35°	1221	1221	1225	1226	1226
37.5°	1177	1176	1181	1181	1181
40°	1130	1130	1134	1134	1134
42.5°	1080	1081	1086	1086	1086
45°	1029	1031	1035	1033	1034
47.5°	976	978	981	979	981
50°	921	924	925	924	924
52.5°	864	867	867	867	870
55°	806	809	808	808	810
57.5°	746	748	748	746	750
60°	685	687	686	686	689
62.5°	623	625	622	622	625
65°	559	562	557	558	561
67.5°	495	497	493	494	496
70°	430	431	428	430	431
72.5°	365	365	364	366	367
75°	302	304	301	303	304
77.5°	241	243	241	243	243
80°	181	182	183	184	184
82.5°	128	130	129	131	130
85°	79	81	80	82	80
87.5°	35	37	36	37	36
90°	0	0	0	0	0

(END OF REPORT)