

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: P#

Luminaire Tested: **24FP6450C**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29712)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24FP6450C  
Description: 2X4 FLAT PANEL LED

Light Source: -  
Ballast/Driver: -

**Summary**

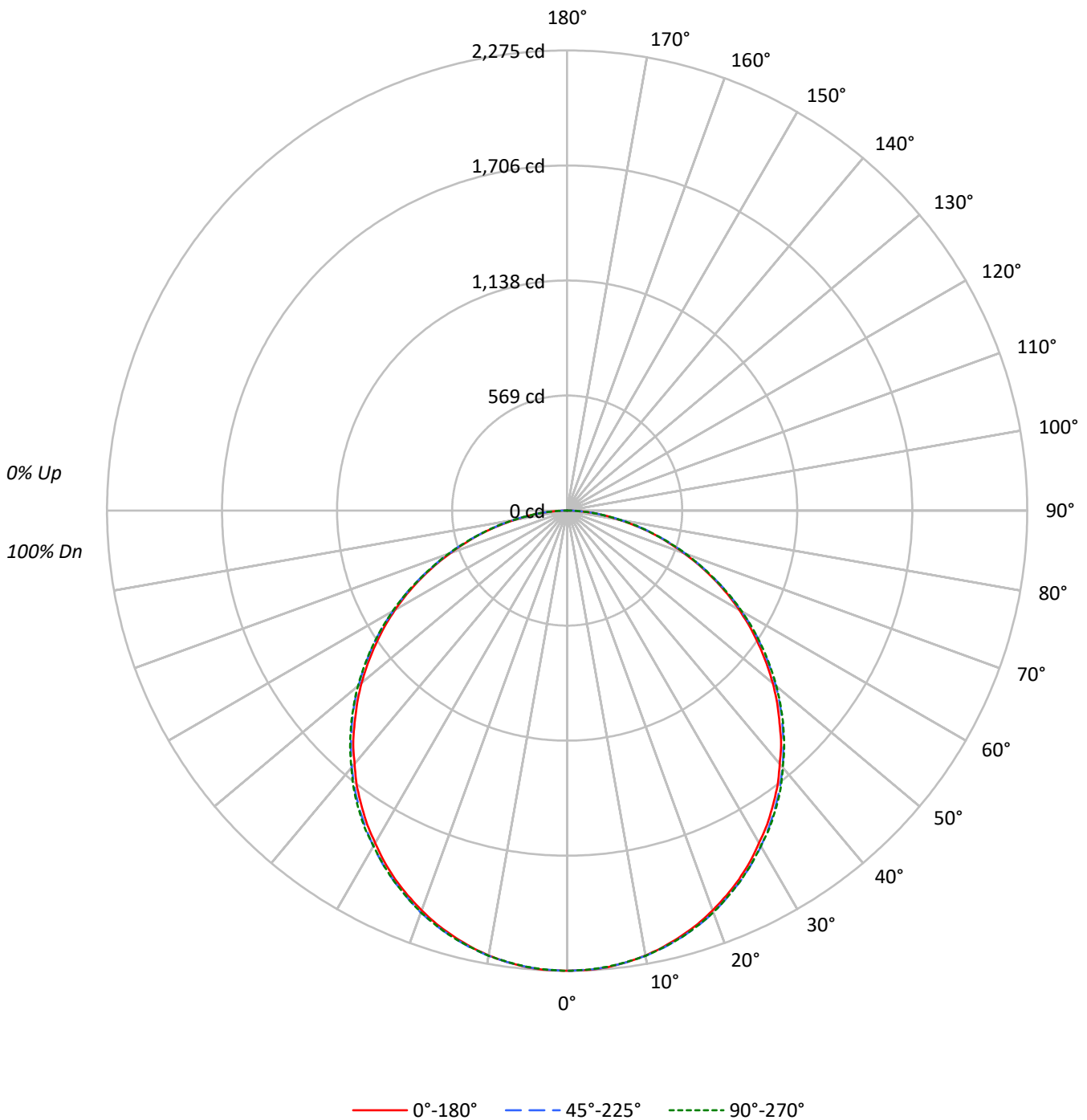
Lumens per Lamp: N/A  
Luminaire Lumens: 6479.0 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 61.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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): NR  
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°	3061	3061	3061
5°	3062	3060	3058
10°	3052	3054	3054
15°	3034	3043	3043
20°	3011	3028	3027
25°	2986	3003	3003
30°	2948	2977	2975
35°	2916	2946	2955
40°	2872	2909	2914
45°	2827	2868	2878
50°	2777	2819	2828
55°	2712	2756	2762
60°	2645	2677	2684
65°	2548	2577	2573
70°	2419	2450	2455
75°	2267	2295	2295
80°	2025	2087	2087
85°	1832	1853	1832



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.2	3.3
10°-20°	615.5	9.5
20°-30°	930.0	14.4
30°-40°	1118.2	17.3
40°-50°	1157.2	17.9
50°-60°	1043.8	16.1
60°-70°	796.7	12.3
70°-80°	465.1	7.2
80°-90°	136.4	2.1
90°-100°	0.9	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°	1760.7	27.2
0°-40°	2878.9	44.4
0°-60°	5079.9	78.4
0°-90°	6478.1	100.0
90°-120°	0.9	0.0
90°-150°	0.9	0.0
90°-180°	1.0	0.0
0°-180°	6479.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2275	2275	2275	2275	2275	
5°	2267	2264	2266	2264	2264	215
15°	2178	2176	2184	2183	2184	615
25°	2011	2010	2023	2022	2023	926
35°	1775	1776	1794	1794	1799	1111
45°	1486	1488	1507	1507	1512	1147
55°	1156	1156	1175	1171	1178	1034
65°	800	799	810	806	808	791
75°	436	435	441	441	441	459
85°	119	117	120	120	119	127
90°	3	4	8	9	9	8
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°	2275.1	2275.1	2275.1	2275.1	2275.1
2.5°	2273.8	2272.5	2272.5	2271.1	2272.5
5°	2267.1	2264.5	2265.8	2264.5	2264.5
7.5°	2252.5	2249.8	2252.5	2251.1	2251.1
10°	2233.8	2231.1	2235.1	2233.8	2235.1
12.5°	2208.5	2205.8	2212.5	2211.1	2211.1
15°	2177.8	2176.5	2184.5	2183.1	2184.5
17.5°	2144.4	2141.8	2152.4	2149.8	2151.1
20°	2103.1	2103.1	2115.1	2112.4	2113.8
22.5°	2059.1	2060.4	2069.8	2069.8	2069.8
25°	2011.1	2009.7	2023.1	2021.8	2023.1
27.5°	1957.7	1957.7	1972.4	1971.1	1971.1
30°	1897.7	1901.7	1916.4	1915.1	1915.1
32.5°	1840.4	1840.4	1856.4	1856.4	1861.7
35°	1775.0	1776.4	1793.7	1793.7	1799.0
37.5°	1709.7	1709.7	1727.0	1728.4	1733.7
40°	1635.0	1639.0	1656.3	1656.3	1659.0
42.5°	1565.7	1565.7	1583.0	1584.3	1588.3
45°	1485.6	1488.3	1507.0	1507.0	1512.3
47.5°	1408.3	1409.6	1428.3	1427.0	1432.3
50°	1326.9	1328.3	1346.9	1345.6	1350.9
52.5°	1242.9	1244.3	1261.6	1260.3	1265.6
55°	1156.2	1156.2	1174.9	1170.9	1177.6
57.5°	1070.9	1069.6	1088.2	1082.9	1088.2
60°	982.9	980.2	994.9	992.2	997.5
62.5°	892.2	889.5	904.2	901.5	904.2
65°	800.2	798.8	809.5	805.5	808.2
67.5°	706.8	708.1	716.1	713.5	714.8
70°	614.8	613.5	622.8	625.5	624.1
72.5°	522.8	524.1	532.1	532.1	530.8
75°	436.1	434.8	441.4	441.4	441.4
77.5°	345.4	348.1	353.4	356.1	354.7
80°	261.4	264.1	269.4	270.7	269.4
82.5°	189.4	188.0	192.0	192.0	190.7
85°	118.7	117.4	120.0	120.0	118.7
87.5°	54.7	53.3	56.0	56.0	53.3
90°	2.7	4.0	8.0	9.3	9.3
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)