

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: **24FP6440C**

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: 24FP6440C
Description: 2X4 FLAT PANEL LED

Light Source: -
Ballast/Driver: -

Summary

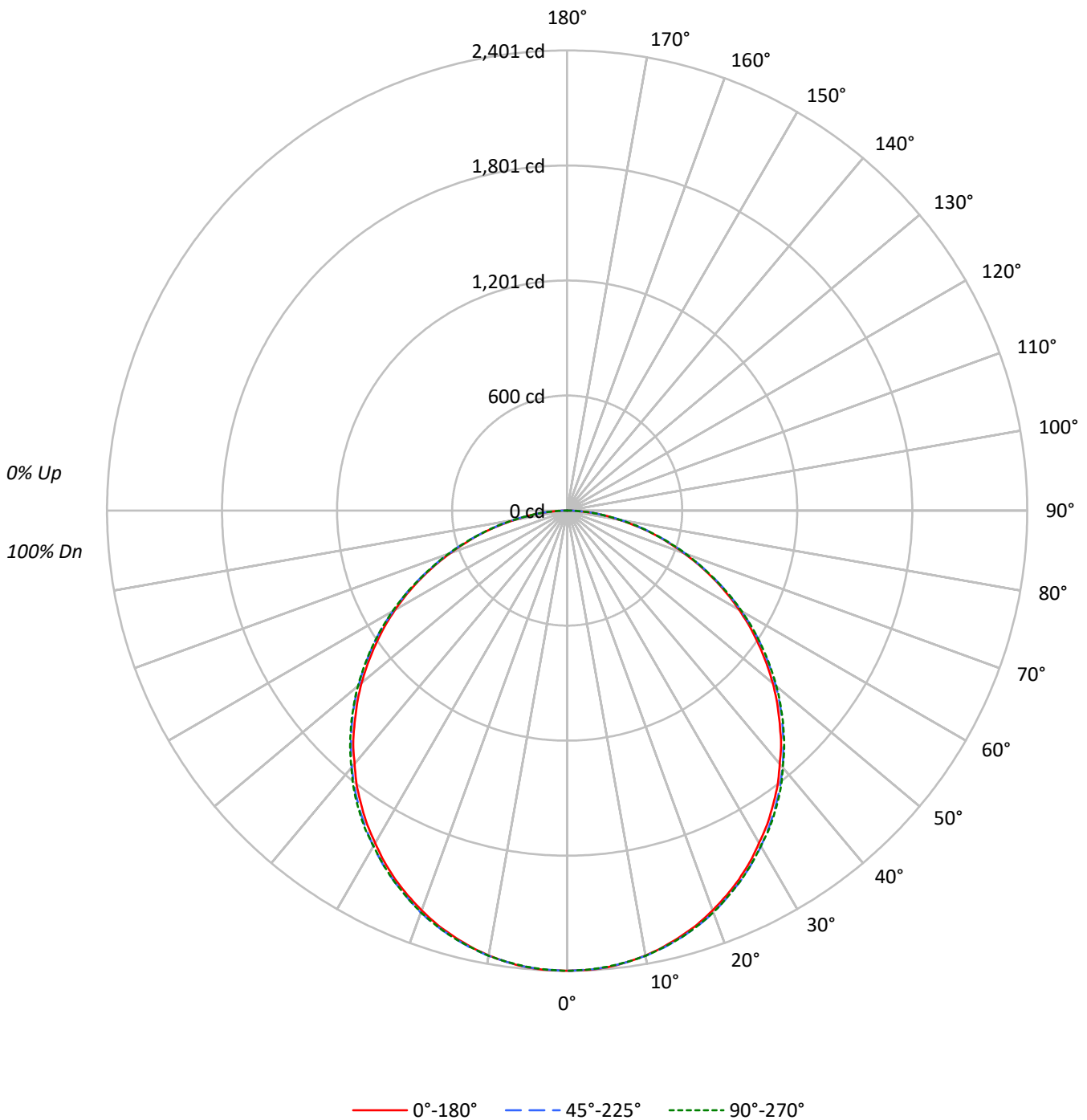
Lumens per Lamp: N/A
Luminaire Lumens: 6838.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 62.2
Input Voltage (V): NR
Input Current (A_{in}): 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



TEST NUMBER: P#
CATALOG NUMBER: 24FP6440C

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°	3231	3231	3231
5°	3232	3230	3228
10°	3221	3223	3223
15°	3202	3211	3211
20°	3178	3196	3194
25°	3151	3170	3170
30°	3112	3142	3140
35°	3077	3109	3119
40°	3031	3070	3075
45°	2984	3026	3037
50°	2932	2976	2984
55°	2863	2909	2915
60°	2791	2826	2833
65°	2689	2720	2715
70°	2553	2586	2591
75°	2393	2422	2422
80°	2138	2203	2203
85°	1934	1956	1934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.1	3.3
10°-20°	649.6	9.5
20°-30°	981.5	14.4
30°-40°	1180.2	17.3
40°-50°	1221.3	17.9
50°-60°	1101.6	16.1
60°-70°	840.8	12.3
70°-80°	490.8	7.2
80°-90°	144.0	2.1
90°-100°	1.0	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°	1858.3	27.2
0°-40°	3038.4	44.4
0°-60°	5361.3	78.4
0°-90°	6837.0	100.0
90°-120°	1.0	0.0
90°-150°	1.0	0.0
90°-180°	1.0	0.0
0°-180°	6838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2401	2401	2401	2401	2401	
5°	2393	2390	2391	2390	2390	227
15°	2298	2297	2306	2304	2306	649
25°	2122	2121	2135	2134	2135	978
35°	1873	1875	1893	1893	1899	1172
45°	1568	1571	1590	1590	1596	1210
55°	1220	1220	1240	1236	1243	1092
65°	844	843	854	850	853	835
75°	460	459	466	466	466	485
85°	125	124	127	127	125	134
90°	3	4	8	10	10	9
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°	2401.2	2401.2	2401.2	2401.2	2401.2
2.5°	2399.8	2398.4	2398.4	2397.0	2398.4
5°	2392.8	2389.9	2391.4	2389.9	2389.9
7.5°	2377.3	2374.5	2377.3	2375.9	2375.9
10°	2357.6	2354.8	2359.0	2357.6	2359.0
12.5°	2330.8	2328.0	2335.1	2333.6	2333.6
15°	2298.5	2297.0	2305.5	2304.1	2305.5
17.5°	2263.3	2260.5	2271.7	2268.9	2270.3
20°	2219.6	2219.6	2232.3	2229.5	2230.9
22.5°	2173.2	2174.6	2184.4	2184.4	2184.4
25°	2122.5	2121.1	2135.2	2133.8	2135.2
27.5°	2066.2	2066.2	2081.7	2080.3	2080.3
30°	2002.9	2007.1	2022.6	2021.2	2021.2
32.5°	1942.4	1942.4	1959.2	1959.2	1964.9
35°	1873.4	1874.8	1893.1	1893.1	1898.7
37.5°	1804.4	1804.4	1822.7	1824.1	1829.8
40°	1725.6	1729.8	1748.1	1748.1	1750.9
42.5°	1652.4	1652.4	1670.7	1672.1	1676.3
45°	1568.0	1570.8	1590.5	1590.5	1596.1
47.5°	1486.3	1487.7	1507.4	1506.0	1511.7
50°	1400.5	1401.9	1421.6	1420.2	1425.8
52.5°	1311.8	1313.2	1331.5	1330.1	1335.7
55°	1220.3	1220.3	1240.0	1235.8	1242.8
57.5°	1130.2	1128.8	1148.5	1142.9	1148.5
60°	1037.3	1034.5	1050.0	1047.2	1052.8
62.5°	941.6	938.8	954.3	951.5	954.3
65°	844.5	843.1	854.4	850.1	852.9
67.5°	746.0	747.4	755.8	753.0	754.4
70°	648.9	647.5	657.3	660.1	658.7
72.5°	551.7	553.1	561.6	561.6	560.2
75°	460.3	458.8	465.9	465.9	465.9
77.5°	364.5	367.4	373.0	375.8	374.4
80°	275.9	278.7	284.3	285.7	284.3
82.5°	199.9	198.5	202.7	202.7	201.3
85°	125.3	123.9	126.7	126.7	125.3
87.5°	57.7	56.3	59.1	59.1	56.3
90°	2.8	4.2	8.4	9.9	9.9
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)