

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: **24FP4740C**

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: 24FP4740C  
Description: 2X4 FLAT PANEL LED

Light Source: -  
Ballast/Driver: -

**Summary**

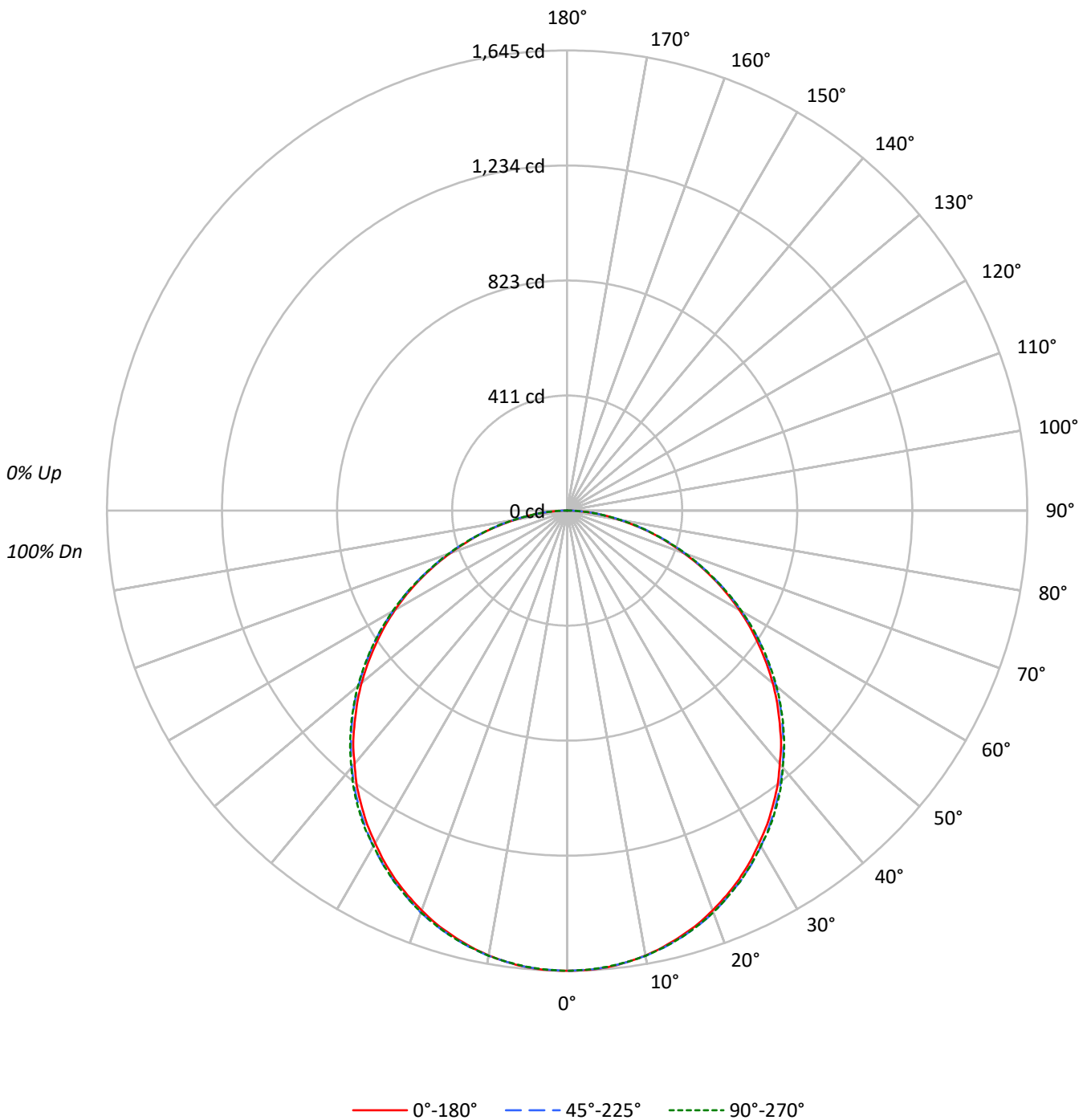
Lumens per Lamp: N/A  
Luminaire Lumens: 4685.0 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 41.4  
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°	2214	2214	2214
5°	2214	2213	2212
10°	2207	2208	2208
15°	2194	2200	2200
20°	2178	2190	2189
25°	2159	2172	2172
30°	2132	2153	2151
35°	2108	2130	2137
40°	2077	2104	2107
45°	2044	2073	2081
50°	2008	2039	2045
55°	1961	1993	1997
60°	1912	1936	1941
65°	1842	1864	1861
70°	1749	1771	1775
75°	1639	1659	1659
80°	1464	1509	1509
85°	1325	1340	1325



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.6	3.3
10°-20°	445.1	9.5
20°-30°	672.5	14.4
30°-40°	808.6	17.3
40°-50°	836.8	17.9
50°-60°	754.8	16.1
60°-70°	576.1	12.3
70°-80°	336.3	7.2
80°-90°	98.7	2.1
90°-100°	0.7	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°	1273.2	27.2
0°-40°	2081.7	44.4
0°-60°	3673.3	78.4
0°-90°	4684.3	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	4685.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1639	1637	1638	1637	1637	156
15°	1575	1574	1580	1579	1580	444
25°	1454	1453	1463	1462	1463	670
35°	1284	1284	1297	1297	1301	803
45°	1074	1076	1090	1090	1094	829
55°	836	836	850	847	852	748
65°	579	578	585	582	584	572
75°	315	314	319	319	319	332
85°	86	85	87	87	86	92
90°	2	3	6	7	7	6
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°	1645.2	1645.2	1645.2	1645.2	1645.2
2.5°	1644.2	1643.2	1643.2	1642.3	1643.2
5°	1639.4	1637.4	1638.4	1637.4	1637.4
7.5°	1628.8	1626.8	1628.8	1627.8	1627.8
10°	1615.3	1613.3	1616.2	1615.3	1616.2
12.5°	1596.9	1595.0	1599.8	1598.9	1598.9
15°	1574.8	1573.8	1579.6	1578.6	1579.6
17.5°	1550.7	1548.7	1556.4	1554.5	1555.5
20°	1520.8	1520.8	1529.4	1527.5	1528.5
22.5°	1488.9	1489.9	1496.7	1496.7	1496.7
25°	1454.2	1453.3	1462.9	1461.9	1462.9
27.5°	1415.7	1415.7	1426.3	1425.3	1425.3
30°	1372.3	1375.1	1385.8	1384.8	1384.8
32.5°	1330.8	1330.8	1342.4	1342.4	1346.2
35°	1283.5	1284.5	1297.0	1297.0	1300.9
37.5°	1236.3	1236.3	1248.8	1249.8	1253.6
40°	1182.3	1185.2	1197.7	1197.7	1199.6
42.5°	1132.1	1132.1	1144.7	1145.6	1148.5
45°	1074.3	1076.2	1089.7	1089.7	1093.6
47.5°	1018.3	1019.3	1032.8	1031.8	1035.7
50°	959.5	960.5	974.0	973.0	976.9
52.5°	898.8	899.7	912.3	911.3	915.2
55°	836.1	836.1	849.6	846.7	851.5
57.5°	774.4	773.4	786.9	783.0	786.9
60°	710.7	708.8	719.4	717.5	721.3
62.5°	645.1	643.2	653.8	651.9	653.8
65°	578.6	577.6	585.4	582.5	584.4
67.5°	511.1	512.1	517.9	515.9	516.9
70°	444.6	443.6	450.3	452.3	451.3
72.5°	378.0	379.0	384.8	384.8	383.8
75°	315.3	314.4	319.2	319.2	319.2
77.5°	249.8	251.7	255.6	257.5	256.5
80°	189.0	190.9	194.8	195.8	194.8
82.5°	136.9	136.0	138.9	138.9	137.9
85°	85.8	84.9	86.8	86.8	85.8
87.5°	39.5	38.6	40.5	40.5	38.6
90°	1.9	2.9	5.8	6.8	6.8
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)