

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: **24FP4750C**

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: 24FP4750C
Description: 2X4 FLAT PANEL LED

Light Source: -
Ballast/Driver: -

Summary

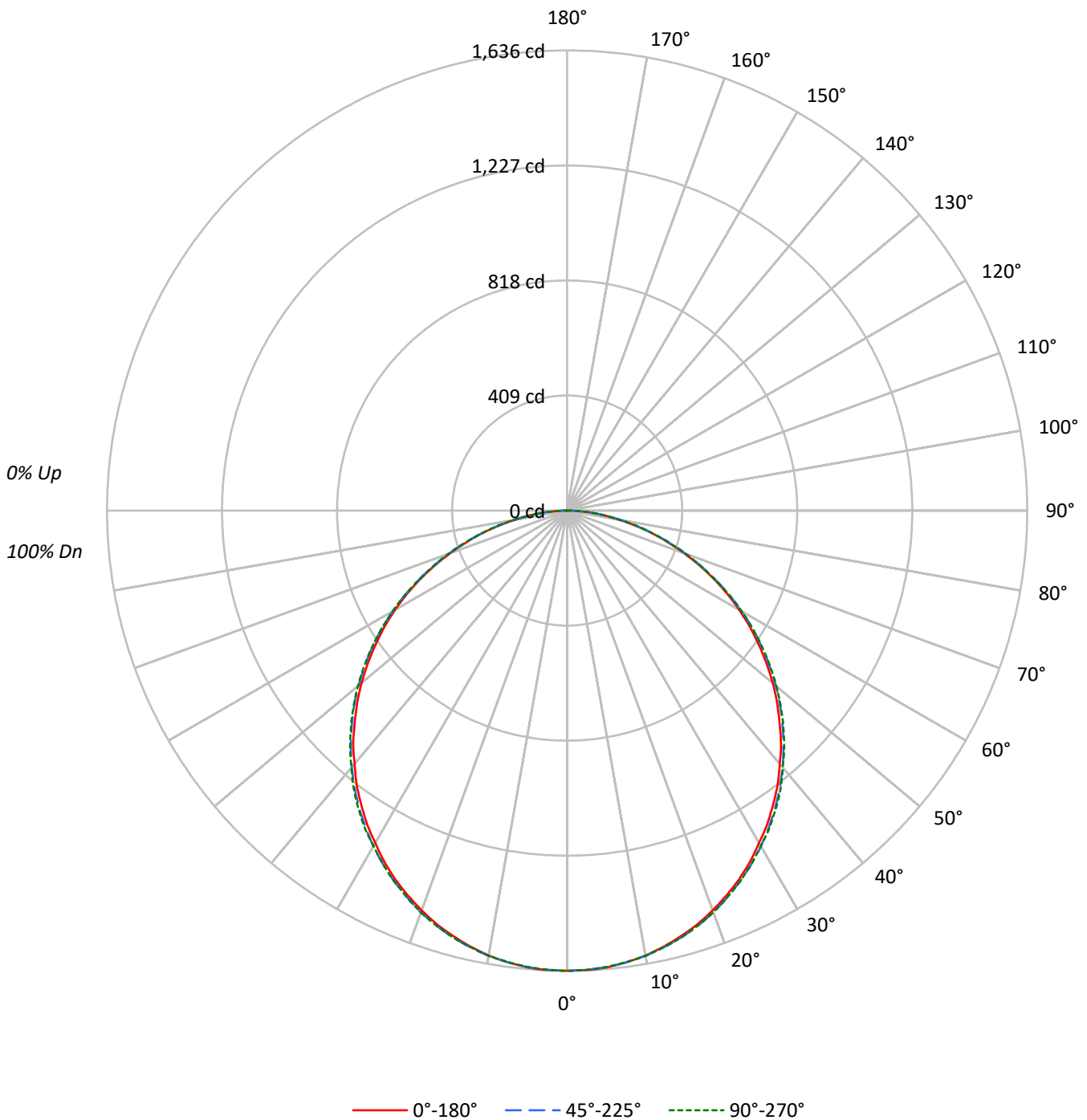
Lumens per Lamp: N/A
Luminaire Lumens: 4659.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.4
Input Voltage (V): NR
Input Current (A_{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



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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°	2201	2201	2201
5°	2202	2201	2199
10°	2195	2196	2196
15°	2181	2188	2188
20°	2165	2178	2176
25°	2147	2160	2160
30°	2120	2141	2140
35°	2097	2119	2125
40°	2065	2092	2095
45°	2033	2062	2069
50°	1997	2027	2034
55°	1950	1982	1986
60°	1902	1925	1930
65°	1832	1853	1850
70°	1739	1762	1766
75°	1630	1650	1650
80°	1457	1501	1501
85°	1317	1332	1317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.7	3.3
10°-20°	442.6	9.5
20°-30°	668.8	14.4
30°-40°	804.1	17.3
40°-50°	832.2	17.9
50°-60°	750.6	16.1
60°-70°	572.9	12.3
70°-80°	334.4	7.2
80°-90°	98.1	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°	1266.1	27.2
0°-40°	2070.2	44.4
0°-60°	3652.9	78.4
0°-90°	4658.3	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	4659.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1636	1636	1636	1636	1636	
5°	1630	1628	1629	1628	1628	155
15°	1566	1565	1571	1570	1571	442
25°	1446	1445	1455	1454	1455	666
35°	1276	1277	1290	1290	1294	799
45°	1068	1070	1084	1084	1088	825
55°	831	831	845	842	847	744
65°	575	574	582	579	581	569
75°	314	313	317	317	317	330
85°	85	84	86	86	85	91
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



TEST NUMBER: P#
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1636.0	1636.0	1636.0	1636.0	1636.0
2.5°	1635.1	1634.1	1634.1	1633.2	1634.1
5°	1630.3	1628.4	1629.3	1628.4	1628.4
7.5°	1619.7	1617.8	1619.7	1618.8	1618.8
10°	1606.3	1604.4	1607.3	1606.3	1607.3
12.5°	1588.1	1586.2	1591.0	1590.0	1590.0
15°	1566.0	1565.1	1570.8	1569.9	1570.8
17.5°	1542.1	1540.1	1547.8	1545.9	1546.8
20°	1512.3	1512.3	1521.0	1519.0	1520.0
22.5°	1480.7	1481.6	1488.4	1488.4	1488.4
25°	1446.2	1445.2	1454.8	1453.8	1454.8
27.5°	1407.8	1407.8	1418.3	1417.4	1417.4
30°	1364.6	1367.5	1378.1	1377.1	1377.1
32.5°	1323.4	1323.4	1334.9	1334.9	1338.7
35°	1276.4	1277.4	1289.8	1289.8	1293.7
37.5°	1229.4	1229.4	1241.9	1242.8	1246.7
40°	1175.7	1178.6	1191.1	1191.1	1193.0
42.5°	1125.9	1125.9	1138.3	1139.3	1142.2
45°	1068.3	1070.2	1083.7	1083.7	1087.5
47.5°	1012.7	1013.7	1027.1	1026.1	1030.0
50°	954.2	955.2	968.6	967.6	971.5
52.5°	893.8	894.7	907.2	906.2	910.1
55°	831.4	831.4	844.9	842.0	846.8
57.5°	770.1	769.1	782.5	778.7	782.5
60°	706.8	704.9	715.4	713.5	717.3
62.5°	641.6	639.6	650.2	648.3	650.2
65°	575.4	574.4	582.1	579.2	581.1
67.5°	508.3	509.2	515.0	513.1	514.0
70°	442.1	441.1	447.8	449.8	448.8
72.5°	375.9	376.9	382.6	382.6	381.7
75°	313.6	312.6	317.4	317.4	317.4
77.5°	248.4	250.3	254.1	256.0	255.1
80°	188.0	189.9	193.7	194.7	193.7
82.5°	136.2	135.2	138.1	138.1	137.1
85°	85.3	84.4	86.3	86.3	85.3
87.5°	39.3	38.4	40.3	40.3	38.4
90°	1.9	2.9	5.8	6.7	6.7
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)