

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: P393737

Luminaire Tested: **24FP4735C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P393737
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: 24FP4735C
Description: 2X4 FLAT PANEL LED

Light Source: -
Ballast/Driver: -

Summary

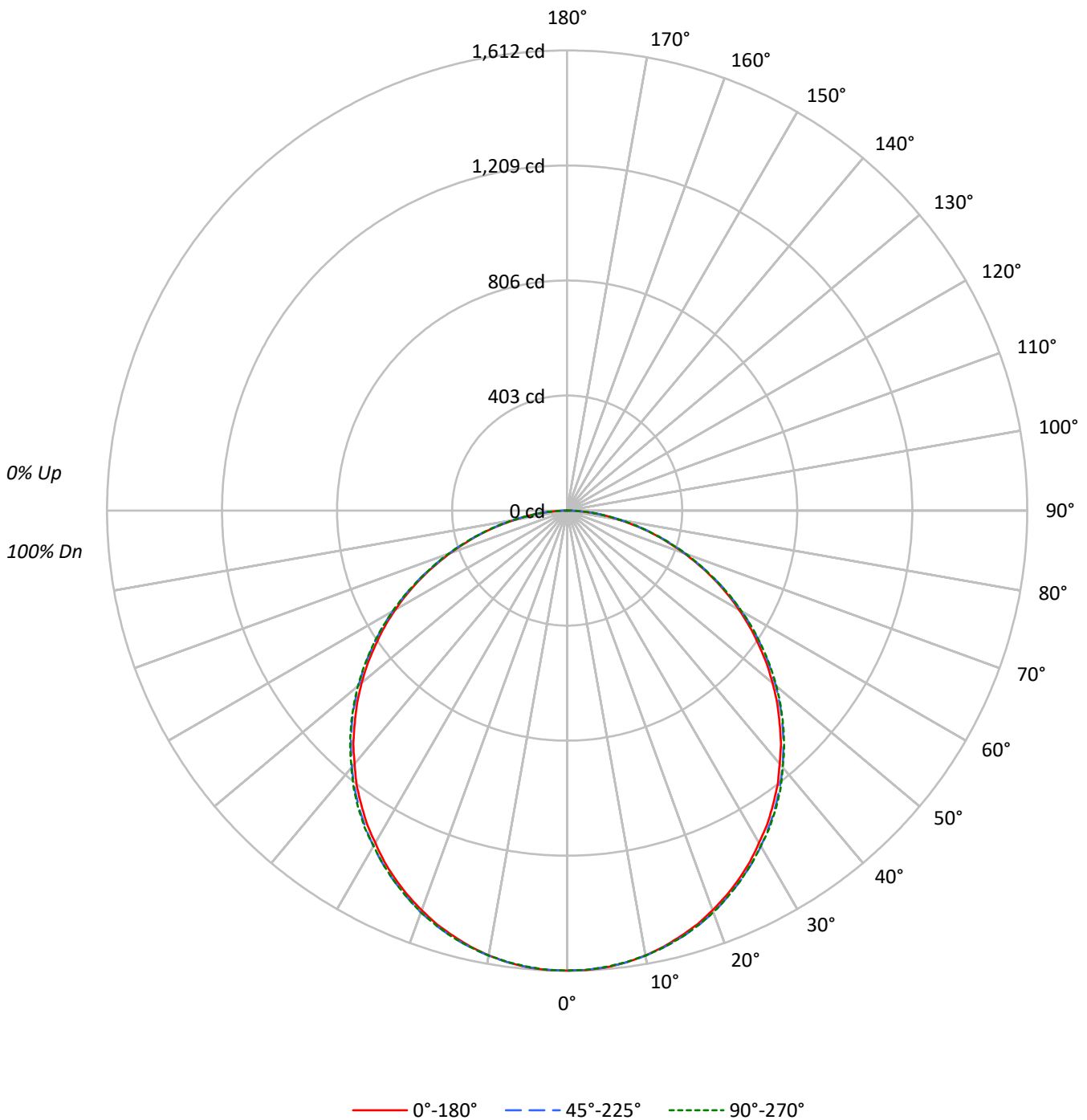
Lumens per Lamp: N/A
Luminaire Lumens: 4589.5 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.4
Input Voltage (V): NR
Input Current (Ain): 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°	2168	2168	2168
5°	2169	2168	2167
10°	2162	2163	2163
15°	2149	2155	2155
20°	2133	2145	2144
25°	2115	2127	2127
30°	2089	2109	2108
35°	2065	2087	2093
40°	2034	2061	2064
45°	2003	2031	2038
50°	1967	1997	2003
55°	1921	1952	1957
60°	1873	1896	1901
65°	1805	1826	1823
70°	1713	1735	1739
75°	1606	1626	1626
80°	1435	1478	1478
85°	1298	1312	1298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.4	3.3
10°-20°	436.0	9.5
20°-30°	658.8	14.4
30°-40°	792.1	17.3
40°-50°	819.7	17.9
50°-60°	739.4	16.1
60°-70°	564.3	12.3
70°-80°	329.4	7.2
80°-90°	96.7	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°	1247.2	27.2
0°-40°	2039.3	44.4
0°-60°	3598.4	78.4
0°-90°	4588.8	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	4589.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1612	1612	1612	1612	1612	
5°	1606	1604	1605	1604	1604	153
15°	1543	1542	1547	1546	1547	435
25°	1425	1424	1433	1432	1433	656
35°	1257	1258	1271	1271	1274	787
45°	1052	1054	1068	1068	1071	812
55°	819	819	832	830	834	733
65°	567	566	573	571	572	560
75°	309	308	313	313	313	325
85°	84	83	85	85	84	90
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°	1611.6	1611.6	1611.6	1611.6	1611.6
2.5°	1610.7	1609.7	1609.7	1608.8	1609.7
5°	1605.9	1604.1	1605.1	1604.1	1604.1
7.5°	1595.6	1593.7	1595.6	1594.6	1594.6
10°	1582.4	1580.4	1583.2	1582.4	1583.2
12.5°	1564.4	1562.5	1567.3	1566.3	1566.3
15°	1542.6	1541.7	1547.4	1546.4	1547.4
17.5°	1519.1	1517.2	1524.7	1522.8	1523.7
20°	1489.7	1489.7	1498.3	1496.4	1497.3
22.5°	1458.6	1459.5	1466.2	1466.2	1466.2
25°	1424.6	1423.6	1433.0	1432.2	1433.0
27.5°	1386.8	1386.8	1397.2	1396.2	1396.2
30°	1344.3	1347.1	1357.5	1356.6	1356.6
32.5°	1303.7	1303.7	1315.0	1315.0	1318.8
35°	1257.3	1258.3	1270.6	1270.6	1274.4
37.5°	1211.1	1211.1	1223.3	1224.3	1228.1
40°	1158.2	1161.0	1173.3	1173.3	1175.2
42.5°	1109.1	1109.1	1121.4	1122.2	1125.1
45°	1052.4	1054.3	1067.5	1067.5	1071.3
47.5°	997.6	998.5	1011.8	1010.8	1014.6
50°	939.9	940.9	954.1	953.2	957.0
52.5°	880.4	881.4	893.6	892.8	896.5
55°	819.0	819.0	832.3	829.5	834.1
57.5°	758.6	757.7	770.8	767.1	770.8
60°	696.2	694.4	704.7	702.8	706.6
62.5°	632.0	630.1	640.5	638.7	640.5
65°	566.8	565.9	573.4	570.6	572.5
67.5°	500.6	501.6	507.3	505.4	506.4
70°	435.5	434.6	441.1	443.1	442.1
72.5°	370.3	371.3	376.9	376.9	376.0
75°	309.0	308.0	312.7	312.7	312.7
77.5°	244.7	246.5	250.3	252.3	251.3
80°	185.2	187.0	190.8	191.8	190.8
82.5°	134.1	133.2	136.1	136.1	135.1
85°	84.1	83.2	85.0	85.0	84.1
87.5°	38.8	37.8	39.6	39.6	37.8
90°	1.9	2.8	5.6	6.6	6.6
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)