

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: P29719

Luminaire Tested: **24FP3830C9**

Test Date: 08/03/17

Test Information

Test Method: LM-79-08
Report Number: P29719
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P29719)
Test Lab: INNOVATION CENTER(G2)
Test Date: 08/03/17
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24FP3830C9
Description: 2x4, 4700LM, UNV LED FLAT PANEL FIXTURE
Light Source: -
Ballast/Driver: -

Summary

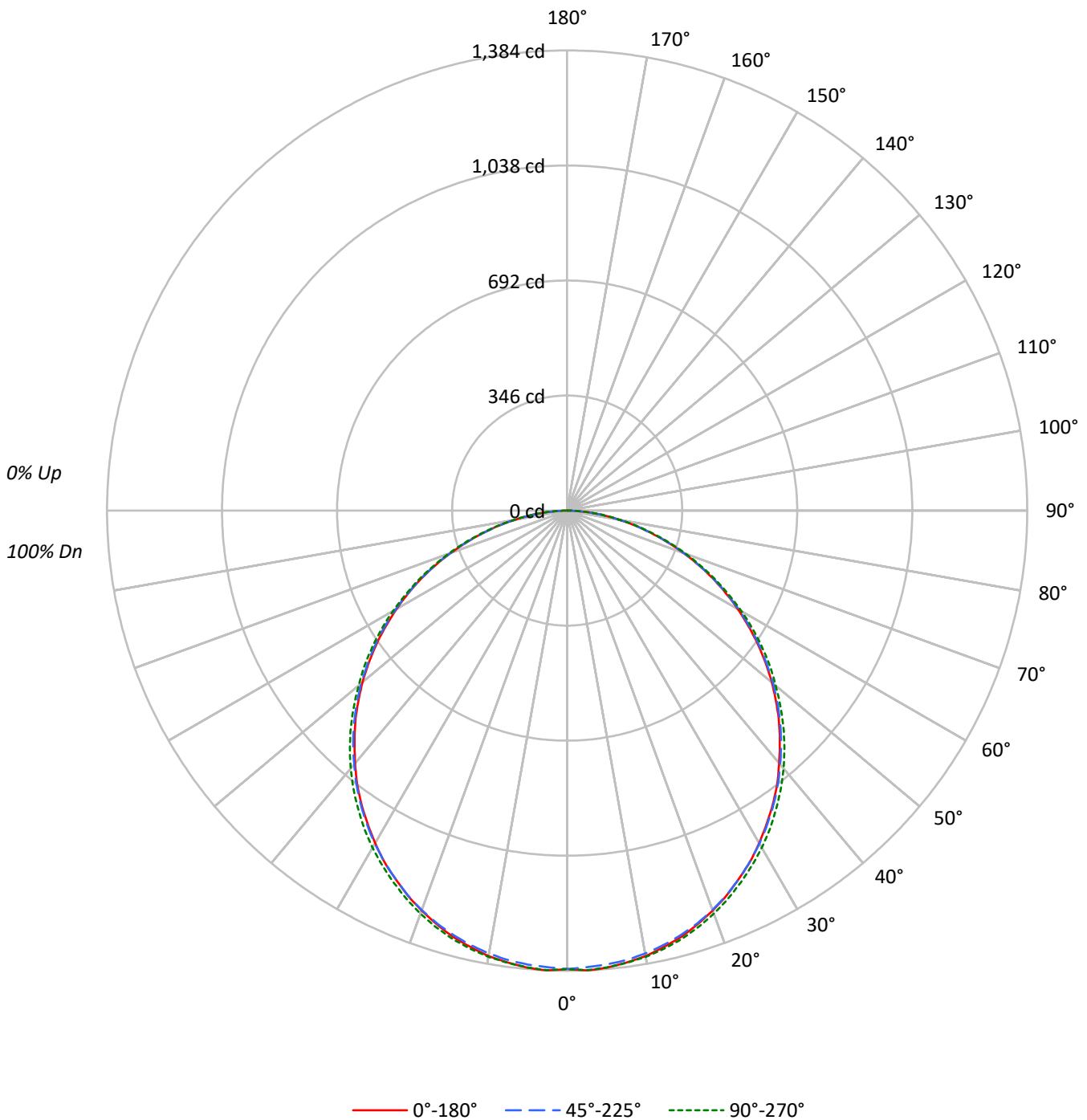
Lumens per Lamp: N/A
Luminaire Lumens: 3919.0 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
Input Voltage (V): 120.0
Input Current (Ain): 0.340
Voltage Rise (V): NR
Power Factor: 0.9952
Total Harmonic Distortion (THDi): 10.2%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 24 HR
Ambient Temperature (°C): 25.0
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	96	106	101	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	39	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1855	1855	1855
5°	1863	1851	1862
10°	1859	1848	1862
15°	1849	1841	1857
20°	1833	1830	1847
25°	1814	1814	1833
30°	1794	1797	1819
35°	1771	1776	1799
40°	1742	1750	1779
45°	1715	1724	1751
50°	1682	1692	1714
55°	1642	1653	1678
60°	1596	1605	1630
65°	1540	1544	1567
70°	1461	1468	1492
75°	1365	1365	1397
80°	1233	1233	1269
85°	1098	1073	1121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	3.3
10°-20°	373.7	9.5
20°-30°	564.6	14.4
30°-40°	677.9	17.3
40°-50°	700.0	17.9
50°-60°	630.4	16.1
60°-70°	480.9	12.3
70°-80°	280.1	7.1
80°-90°	80.8	2.1
90°-100°	0.0	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°	1068.8	27.3
0°-40°	1746.6	44.6
0°-60°	3077.0	78.5
0°-90°	3919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1379	1379	1379	1379	1379	
5°	1380	1370	1370	1374	1379	131
15°	1327	1319	1322	1327	1333	374
25°	1222	1219	1222	1230	1234	563
35°	1078	1075	1082	1091	1095	674
45°	902	899	906	915	920	695
55°	700	698	705	711	715	626
65°	484	484	485	489	492	478
75°	263	262	263	266	269	278
85°	71	70	70	71	73	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1378.9	1378.9	1378.9	1378.9	1378.9
2.5°	1384.4	1373.5	1374.3	1377.4	1383.5
5°	1379.7	1369.6	1370.4	1373.5	1378.9
7.5°	1371.2	1361.9	1363.5	1366.6	1372.0
10°	1360.4	1351.1	1352.6	1356.5	1362.7
12.5°	1344.2	1336.4	1338.8	1343.4	1349.6
15°	1327.1	1318.6	1321.7	1327.1	1333.4
17.5°	1304.8	1298.6	1301.7	1307.1	1313.2
20°	1280.0	1274.6	1278.4	1285.4	1290.1
22.5°	1253.0	1248.4	1252.2	1259.9	1263.8
25°	1222.1	1219.0	1222.1	1229.8	1234.4
27.5°	1191.2	1187.3	1190.4	1198.9	1203.5
30°	1154.9	1153.4	1156.4	1164.9	1171.1
32.5°	1117.1	1115.5	1120.1	1129.4	1134.8
35°	1078.4	1075.4	1081.5	1090.8	1095.4
37.5°	1037.5	1034.4	1040.6	1049.8	1056.0
40°	991.9	991.1	996.5	1007.3	1012.7
42.5°	946.4	947.8	952.5	962.6	967.2
45°	901.5	899.2	906.2	915.4	920.0
47.5°	852.8	851.3	858.2	865.2	869.8
50°	803.4	801.8	808.1	815.8	818.8
52.5°	752.4	752.4	756.3	764.0	768.7
55°	699.9	698.3	704.6	710.7	715.3
57.5°	646.6	645.8	651.2	656.6	661.3
60°	593.2	592.5	596.4	601.0	605.6
62.5°	538.4	536.8	540.8	544.7	548.5
65°	483.6	483.6	485.1	489.0	492.1
67.5°	428.0	427.2	429.5	432.6	435.7
70°	371.5	370.8	373.1	376.2	379.3
72.5°	316.7	317.5	317.5	320.5	323.7
75°	262.6	261.9	262.6	265.7	268.8
77.5°	210.9	210.9	210.9	214.0	216.3
80°	159.1	159.1	159.1	161.5	163.8
82.5°	112.8	112.8	112.8	114.3	116.6
85°	71.1	70.3	69.5	71.1	72.6
87.5°	32.5	32.5	32.5	33.2	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)