

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: P232296

Luminaire Tested: **ATW-SW4-22RDI-40-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-078-15-R2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: ATW-SW4-22RDI-40-UNV-L830-CD1-U
Description: METALUX 2X2 OVATION LED TROFFER
CHICAGO RATED VERSION
Light Source: (196) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4038.0 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

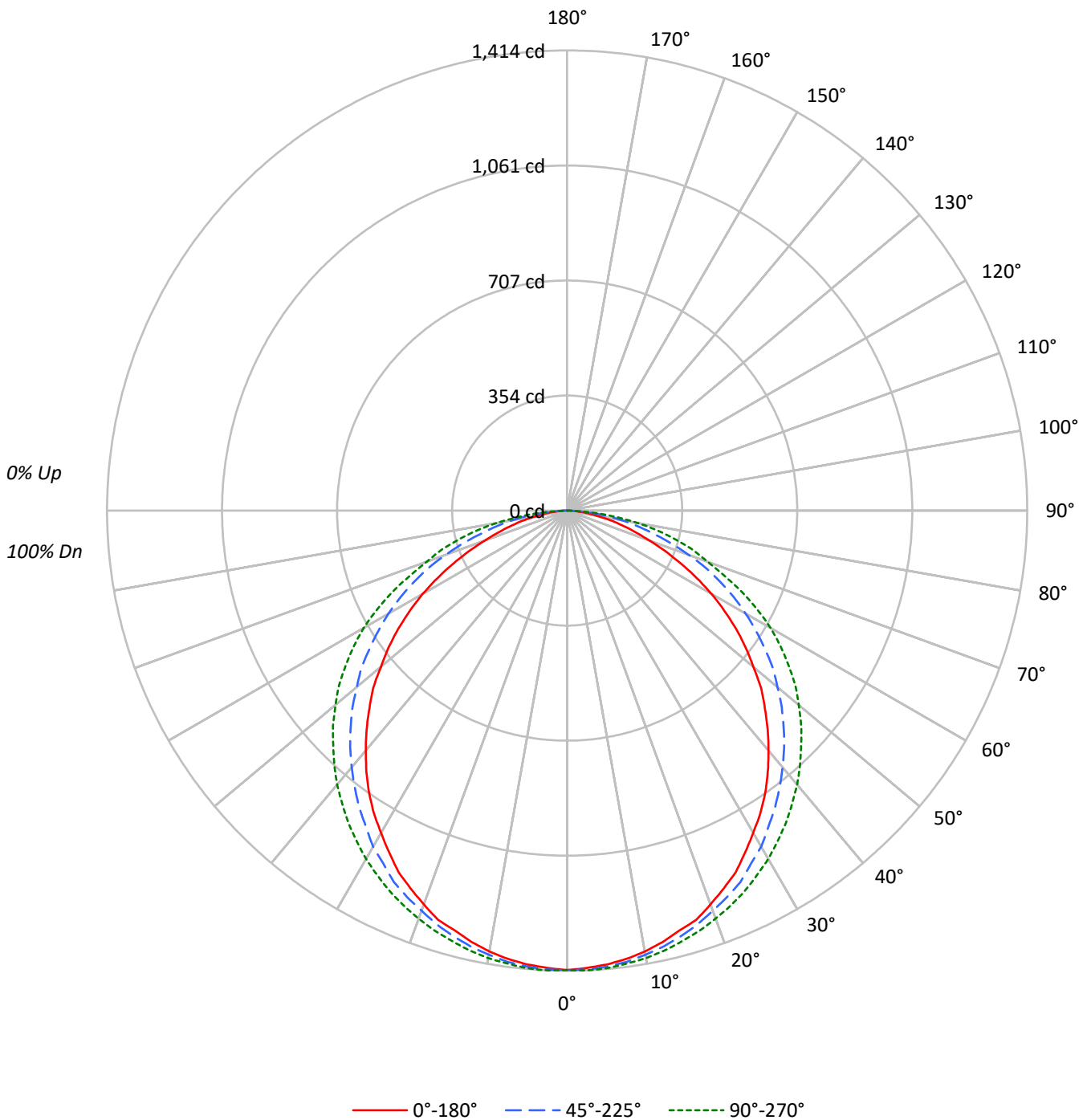
Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
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	73	61	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	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	28	39	33	28	26
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°	3799	3799	3799
5°	3782	3799	3813
10°	3759	3787	3815
15°	3721	3771	3814
20°	3688	3747	3821
25°	3640	3739	3831
30°	3553	3705	3841
35°	3484	3658	3849
40°	3381	3617	3862
45°	3271	3580	3870
50°	3128	3533	3890
55°	2973	3481	3899
60°	2757	3410	3889
65°	2457	3311	3780
70°	2112	3127	3604
75°	1811	2845	3609
80°	1460	2659	3400
85°	1074	2072	2748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	3.3
10°-20°	382.1	9.5
20°-30°	579.1	14.3
30°-40°	697.6	17.3
40°-50°	724.8	17.9
50°-60°	658.6	16.3
60°-70°	499.1	12.4
70°-80°	286.0	7.1
80°-90°	77.3	1.9
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°	1094.7	27.1
0°-40°	1792.3	44.4
0°-60°	3175.6	78.6
0°-90°	4038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1400	1401	1406	1409	1412	133
15°	1336	1342	1354	1365	1369	377
25°	1226	1230	1259	1280	1290	563
35°	1061	1080	1114	1155	1172	662
45°	859	883	941	996	1017	663
55°	634	667	742	806	831	565
65°	386	435	520	573	594	384
75°	174	217	274	326	347	187
85°	35	48	67	84	89	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1411.7	1411.7	1411.7	1411.7	1411.7
2.5°	1406.5	1407.8	1411.7	1414.2	1414.2
5°	1400.0	1401.3	1406.5	1409.1	1411.7
7.5°	1389.7	1392.3	1398.8	1402.6	1403.9
10°	1375.5	1379.4	1385.8	1392.3	1396.2
12.5°	1357.5	1361.3	1371.7	1380.7	1384.6
15°	1335.5	1342.0	1353.6	1365.2	1369.1
17.5°	1318.8	1320.0	1332.9	1348.4	1353.6
20°	1287.8	1295.5	1308.4	1326.5	1334.2
22.5°	1256.8	1267.1	1285.2	1305.8	1313.6
25°	1225.8	1229.7	1259.4	1280.0	1290.4
27.5°	1184.6	1200.0	1223.3	1252.9	1263.3
30°	1143.3	1158.7	1192.3	1222.0	1236.2
32.5°	1104.6	1116.2	1151.0	1189.7	1203.9
35°	1060.7	1080.0	1113.6	1154.9	1171.6
37.5°	1012.9	1032.3	1072.3	1117.5	1135.5
40°	962.6	983.3	1029.7	1081.3	1099.4
42.5°	912.3	932.9	987.1	1036.2	1059.4
45°	859.4	882.6	940.7	996.2	1016.8
47.5°	809.1	832.3	894.2	951.0	975.5
50°	747.1	780.7	843.9	903.3	929.1
52.5°	691.6	726.5	797.4	856.8	883.9
55°	633.6	667.1	742.0	806.5	831.0
57.5°	572.9	614.2	687.8	752.3	778.1
60°	512.3	553.6	633.6	694.2	722.6
62.5°	449.0	498.1	578.1	638.7	659.4
65°	385.8	434.9	520.0	572.9	593.6
67.5°	326.5	380.7	461.9	505.8	522.6
70°	268.4	325.2	397.4	437.4	458.1
72.5°	219.4	271.0	335.5	380.7	407.8
75°	174.2	216.8	273.6	326.5	347.1
77.5°	134.2	167.7	221.9	268.4	286.5
80°	94.2	120.0	171.6	210.3	219.4
82.5°	63.2	81.3	118.7	145.8	152.3
85°	34.8	47.7	67.1	83.9	89.0
87.5°	15.5	18.1	24.5	28.4	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)