

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: P232298

Luminaire Tested: **ATW-SW4-22RDI-40-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232298
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-L840-CD1-U
Description: METALUX 2X2 OVATION LED TROFFER
CHICAGO RATED VERSION
Light Source: (196) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4206.0 lumens
Efficiency: N/A
Efficacy: 100.6 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

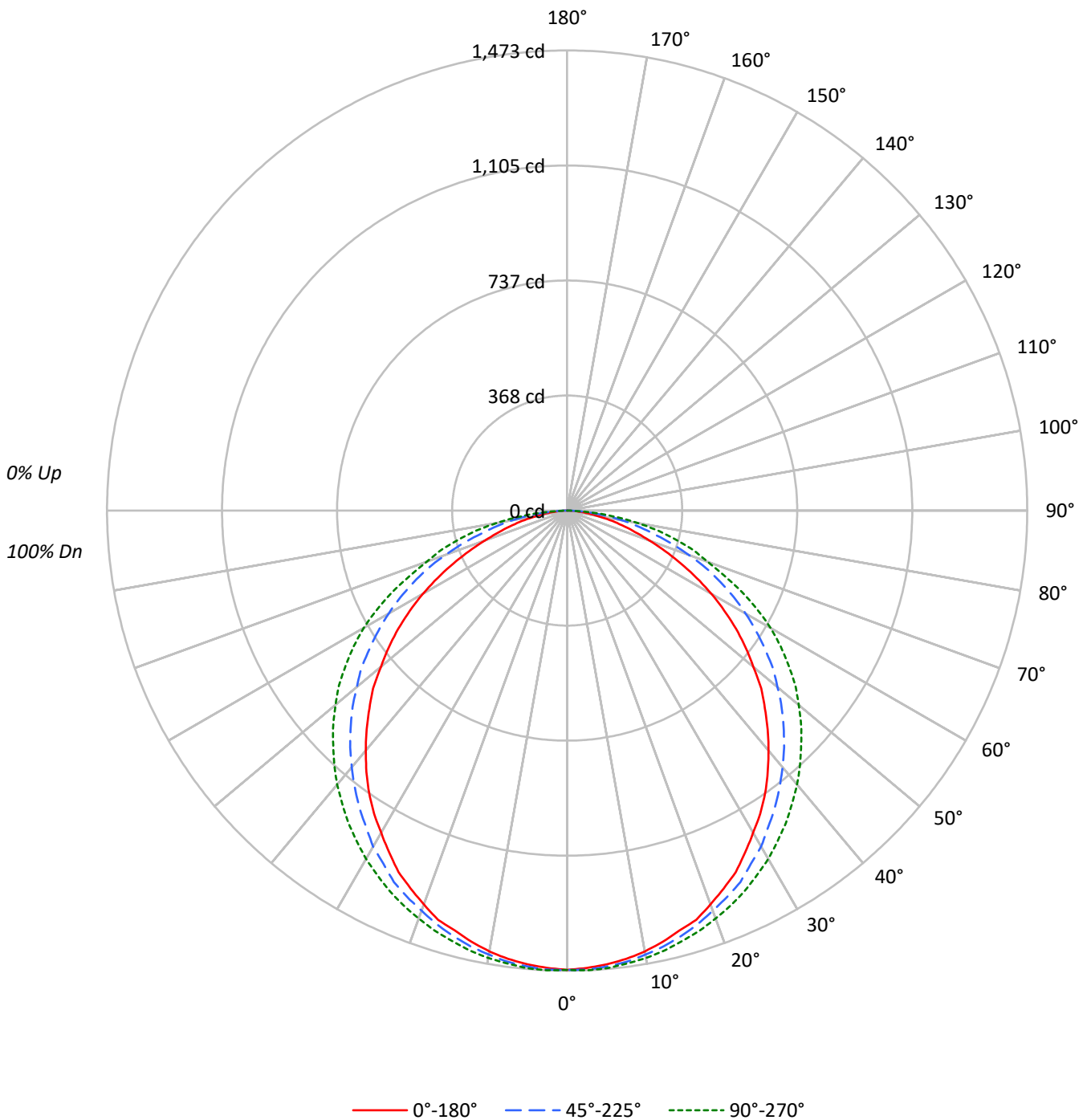
Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3957	3957	3957
5°	3939	3957	3972
10°	3915	3944	3974
15°	3875	3928	3973
20°	3841	3903	3980
25°	3791	3895	3991
30°	3700	3859	4001
35°	3629	3810	4009
40°	3522	3768	4023
45°	3406	3729	4031
50°	3258	3680	4051
55°	3096	3626	4061
60°	2872	3552	4051
65°	2559	3449	3937
70°	2200	3257	3754
75°	1886	2962	3759
80°	1520	2771	3541
85°	1121	2158	2862



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	3.3
10°-20°	398.0	9.5
20°-30°	603.2	14.3
30°-40°	726.6	17.3
40°-50°	754.9	17.9
50°-60°	686.0	16.3
60°-70°	519.9	12.4
70°-80°	297.9	7.1
80°-90°	80.5	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°	1140.3	27.1
0°-40°	1866.8	44.4
0°-60°	3307.7	78.6
0°-90°	4206.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4206.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1470	1470	1470	1470	1470	
5°	1458	1460	1465	1468	1470	138
15°	1391	1398	1410	1422	1426	393
25°	1277	1281	1312	1333	1344	586
35°	1105	1125	1160	1203	1220	690
45°	895	919	980	1038	1059	690
55°	660	695	773	840	866	588
65°	402	453	542	597	618	399
75°	181	226	285	340	362	195
85°	36	50	70	87	93	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1470.4	1470.4	1470.4	1470.4	1470.4
2.5°	1465.0	1466.4	1470.4	1473.1	1473.1
5°	1458.3	1459.6	1465.0	1467.7	1470.4
7.5°	1447.5	1450.2	1456.9	1461.0	1462.3
10°	1432.8	1436.8	1443.5	1450.2	1454.3
12.5°	1413.9	1418.0	1428.7	1438.1	1442.2
15°	1391.1	1397.8	1409.9	1422.0	1426.0
17.5°	1373.6	1375.0	1388.4	1404.5	1409.9
20°	1341.4	1349.4	1362.9	1381.7	1389.7
22.5°	1309.1	1319.9	1338.7	1360.2	1368.2
25°	1276.8	1280.9	1311.8	1333.3	1344.0
27.5°	1233.8	1250.0	1274.2	1305.1	1315.8
30°	1190.8	1207.0	1241.9	1272.8	1287.6
32.5°	1150.5	1162.6	1198.9	1239.2	1254.0
35°	1104.8	1125.0	1159.9	1202.9	1220.4
37.5°	1055.1	1075.2	1116.9	1163.9	1182.8
40°	1002.7	1024.2	1072.5	1126.3	1145.1
42.5°	950.2	971.7	1028.2	1079.3	1103.5
45°	895.1	919.3	979.8	1037.6	1059.1
47.5°	842.7	866.9	931.4	990.6	1016.1
50°	778.2	813.1	879.0	940.8	967.7
52.5°	720.4	756.7	830.6	892.4	920.7
55°	659.9	694.9	772.8	840.0	865.6
57.5°	596.8	639.8	716.4	783.6	810.5
60°	533.6	576.6	659.9	723.1	752.7
62.5°	467.7	518.8	602.1	665.3	686.8
65°	401.9	452.9	541.7	596.8	618.3
67.5°	340.0	396.5	481.2	526.9	544.3
70°	279.6	338.7	414.0	455.6	477.1
72.5°	228.5	282.2	349.5	396.5	424.7
75°	181.4	225.8	284.9	340.0	361.5
77.5°	139.8	174.7	231.2	279.6	298.4
80°	98.1	125.0	178.8	219.1	228.5
82.5°	65.9	84.7	123.7	151.9	158.6
85°	36.3	49.7	69.9	87.4	92.7
87.5°	16.1	18.8	25.5	29.6	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)