

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: P232299

Luminaire Tested: **ATW-SW4-22RDI-40-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232299
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-L850-CD1-U
Description: METALUX 2X2 OVATION LED TROFFER
CHICAGO RATED VERSION
Light Source: (196) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4375.0 lumens
Efficiency: N/A
Efficacy: 104.7 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

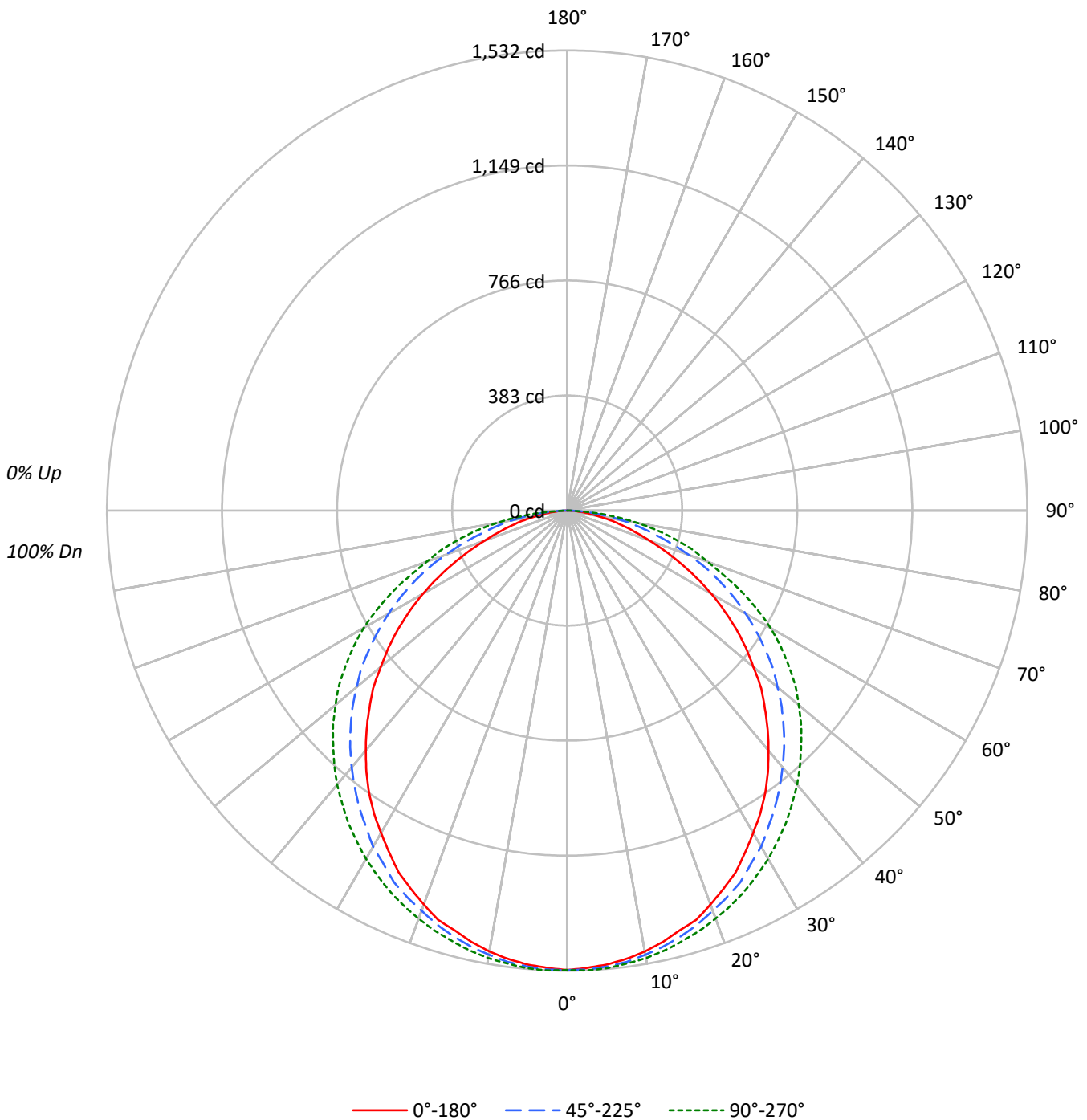
Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4116	4116	4116
5°	4098	4116	4132
10°	4072	4103	4133
15°	4031	4086	4132
20°	3996	4060	4140
25°	3943	4051	4151
30°	3849	4014	4162
35°	3775	3963	4170
40°	3664	3919	4184
45°	3543	3879	4193
50°	3389	3828	4214
55°	3220	3772	4224
60°	2987	3694	4214
65°	2662	3587	4095
70°	2288	3388	3905
75°	1962	3082	3910
80°	1582	2881	3684
85°	1164	2245	2979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	3.3
10°-20°	414.0	9.5
20°-30°	627.4	14.3
30°-40°	755.8	17.3
40°-50°	785.3	17.9
50°-60°	713.5	16.3
60°-70°	540.8	12.4
70°-80°	309.8	7.1
80°-90°	83.7	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°	1186.1	27.1
0°-40°	1941.9	44.4
0°-60°	3440.7	78.6
0°-90°	4375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4375.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1517	1518	1524	1527	1530	144
15°	1447	1454	1467	1479	1483	409
25°	1328	1332	1364	1387	1398	610
35°	1149	1170	1206	1251	1269	718
45°	931	956	1019	1079	1102	718
55°	686	723	804	874	900	612
65°	418	471	563	621	643	415
75°	189	235	296	354	376	202
85°	38	52	73	91	96	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1529.5	1529.5	1529.5	1529.5	1529.5
2.5°	1523.9	1525.3	1529.5	1532.3	1532.3
5°	1516.9	1518.3	1523.9	1526.7	1529.5
7.5°	1505.7	1508.5	1515.5	1519.7	1521.1
10°	1490.3	1494.5	1501.5	1508.5	1512.7
12.5°	1470.8	1474.9	1486.1	1495.9	1500.1
15°	1447.0	1454.0	1466.6	1479.1	1483.3
17.5°	1428.8	1430.2	1444.2	1461.0	1466.6
20°	1395.3	1403.6	1417.6	1437.2	1445.6
22.5°	1361.7	1372.9	1392.5	1414.8	1423.2
25°	1328.1	1332.3	1364.5	1386.9	1398.1
27.5°	1283.4	1300.2	1325.4	1357.5	1368.7
30°	1238.7	1255.5	1291.8	1324.0	1339.3
32.5°	1196.7	1209.3	1247.1	1289.0	1304.4
35°	1149.2	1170.2	1206.5	1251.3	1269.4
37.5°	1097.5	1118.4	1161.8	1210.7	1230.3
40°	1042.9	1065.3	1115.6	1171.6	1191.1
42.5°	988.4	1010.8	1069.5	1122.6	1147.8
45°	931.1	956.3	1019.2	1079.3	1101.7
47.5°	876.6	901.7	968.9	1030.4	1056.9
50°	809.5	845.8	914.3	978.6	1006.6
52.5°	749.4	787.1	864.0	928.3	957.7
55°	686.4	722.8	803.9	873.8	900.3
57.5°	620.7	665.5	745.2	815.1	843.0
60°	555.0	599.8	686.4	752.2	782.9
62.5°	486.5	539.6	626.3	692.0	714.4
65°	418.0	471.1	563.4	620.7	643.1
67.5°	353.7	412.4	500.5	548.0	566.2
70°	290.8	352.3	430.6	473.9	496.3
72.5°	237.7	293.6	363.5	412.4	441.8
75°	188.7	234.9	296.4	353.7	376.1
77.5°	145.4	181.7	240.5	290.8	310.4
80°	102.1	130.0	185.9	227.9	237.7
82.5°	68.5	88.1	128.6	158.0	165.0
85°	37.7	51.7	72.7	90.9	96.5
87.5°	16.8	19.6	26.6	30.8	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)