

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: P232295

Luminaire Tested: **ATW-SW4-22RDI-30-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232295
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-30-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: 3254.0 lumens
Efficiency: N/A
Efficacy: 108.1 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

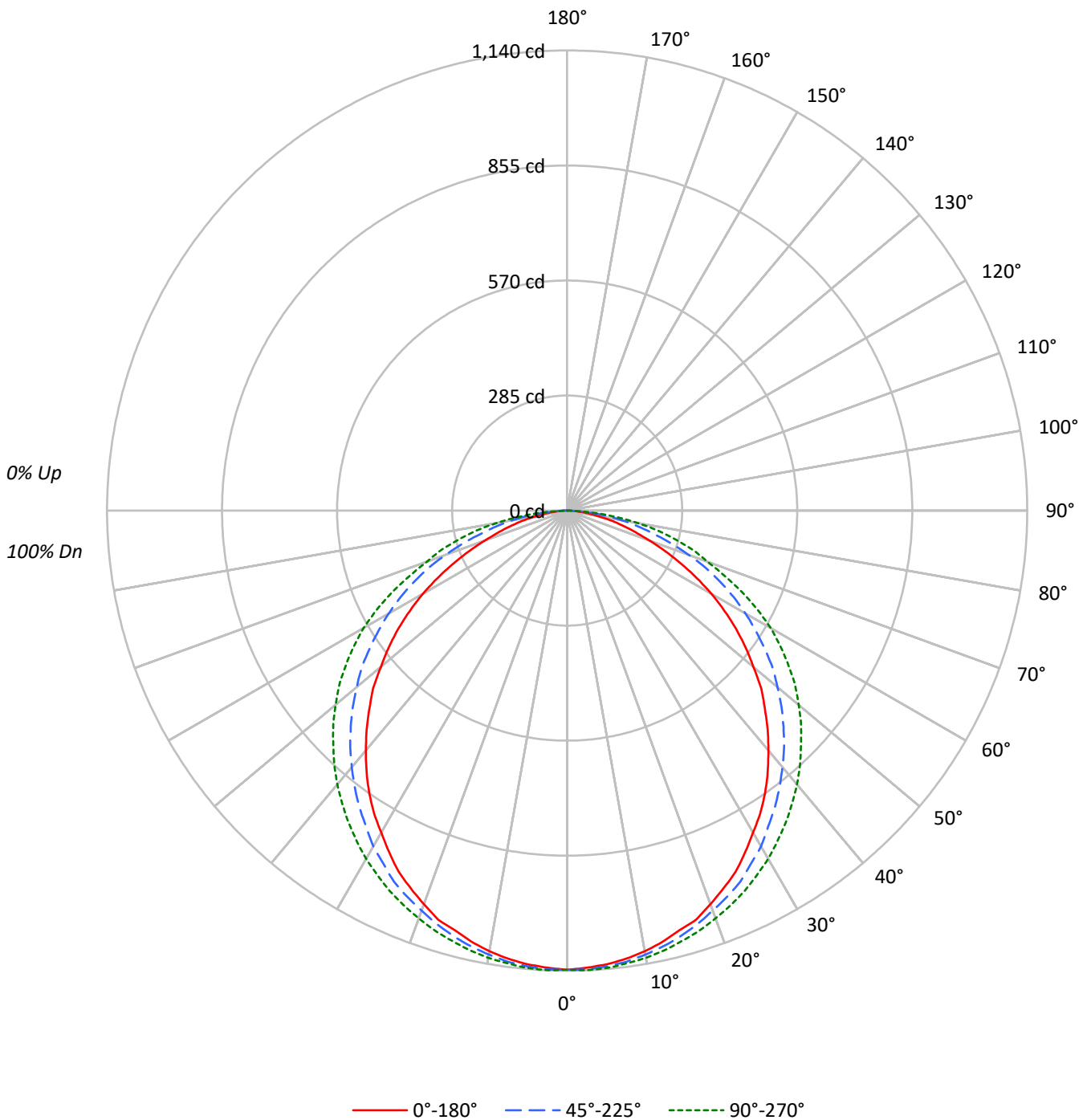
Input Watts (W): 30.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3061	3061	3061
5°	3048	3062	3073
10°	3029	3052	3074
15°	2998	3039	3074
20°	2972	3019	3079
25°	2933	3013	3087
30°	2863	2985	3095
35°	2808	2948	3102
40°	2725	2915	3112
45°	2635	2885	3118
50°	2521	2847	3134
55°	2396	2805	3142
60°	2222	2748	3134
65°	1980	2669	3046
70°	1702	2520	2904
75°	1460	2292	2908
80°	1176	2143	2740
85°	868	1670	2214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	3.3
10°-20°	307.9	9.5
20°-30°	466.6	14.3
30°-40°	562.1	17.3
40°-50°	584.1	17.9
50°-60°	530.7	16.3
60°-70°	402.2	12.4
70°-80°	230.5	7.1
80°-90°	62.3	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°	882.2	27.1
0°-40°	1444.3	44.4
0°-60°	2559.1	78.6
0°-90°	3254.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3254.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1128	1129	1133	1136	1138	107
15°	1076	1081	1091	1100	1103	304
25°	988	991	1015	1032	1040	454
35°	855	870	897	931	944	534
45°	692	711	758	803	819	534
55°	511	538	598	650	670	455
65°	311	350	419	462	478	309
75°	140	175	220	263	280	151
85°	28	38	54	68	72	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1137.6	1137.6	1137.6	1137.6	1137.6
2.5°	1133.4	1134.5	1137.6	1139.7	1139.7
5°	1128.2	1129.3	1133.4	1135.5	1137.6
7.5°	1119.9	1122.0	1127.2	1130.3	1131.3
10°	1108.5	1111.6	1116.8	1122.0	1125.1
12.5°	1093.9	1097.0	1105.3	1112.6	1115.7
15°	1076.2	1081.4	1090.8	1100.1	1103.3
17.5°	1062.7	1063.7	1074.1	1086.6	1090.8
20°	1037.8	1044.0	1054.4	1068.9	1075.2
22.5°	1012.8	1021.1	1035.7	1052.3	1058.5
25°	987.8	991.0	1014.9	1031.5	1039.8
27.5°	954.6	967.0	985.8	1009.7	1018.0
30°	921.3	933.8	960.8	984.7	996.2
32.5°	890.1	899.5	927.5	958.7	970.2
35°	854.7	870.3	897.4	930.6	944.2
37.5°	816.3	831.9	864.1	900.5	915.1
40°	775.7	792.4	829.8	871.4	885.9
42.5°	735.2	751.8	795.5	835.0	853.7
45°	692.5	711.2	758.0	802.7	819.4
47.5°	652.0	670.7	720.6	766.4	786.1
50°	602.1	629.1	680.0	727.9	748.7
52.5°	557.3	585.4	642.6	690.4	712.3
55°	510.6	537.6	597.9	649.9	669.7
57.5°	461.7	495.0	554.2	606.2	627.0
60°	412.8	446.1	510.6	559.4	582.3
62.5°	361.9	401.4	465.8	514.7	531.4
65°	310.9	350.4	419.1	461.7	478.3
67.5°	263.1	306.8	372.3	407.6	421.1
70°	216.3	262.0	320.3	352.5	369.1
72.5°	176.8	218.4	270.4	306.8	328.6
75°	140.4	174.7	220.4	263.1	279.7
77.5°	108.1	135.2	178.9	216.3	230.8
80°	75.9	96.7	138.3	169.5	176.8
82.5°	51.0	65.5	95.7	117.5	122.7
85°	28.1	38.5	54.1	67.6	71.7
87.5°	12.5	14.6	19.8	22.9	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)