

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: P232294

Luminaire Tested: **ATW-SW4-22RDI-30-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232294
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-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: 3129.0 lumens
Efficiency: N/A
Efficacy: 104.0 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

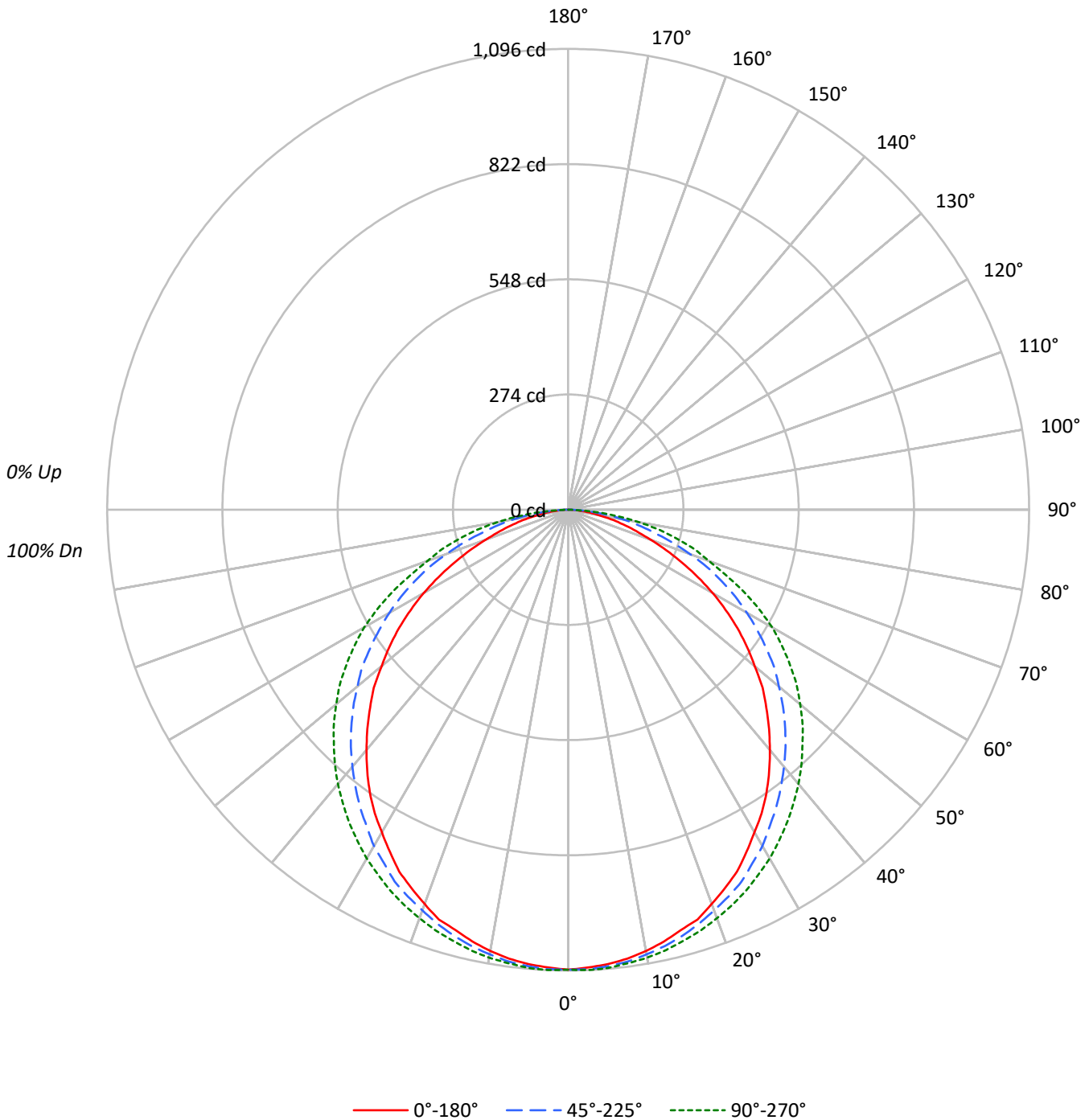
Input Watts (W): 30.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2944	2944	2944
5°	2931	2944	2955
10°	2913	2934	2956
15°	2883	2922	2956
20°	2858	2903	2961
25°	2820	2898	2969
30°	2753	2871	2976
35°	2700	2835	2983
40°	2620	2803	2993
45°	2534	2774	2998
50°	2424	2737	3014
55°	2303	2697	3021
60°	2137	2642	3013
65°	1904	2566	2928
70°	1637	2423	2793
75°	1404	2204	2797
80°	1131	2061	2634
85°	834	1606	2130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	3.3
10°-20°	296.1	9.5
20°-30°	448.7	14.3
30°-40°	540.5	17.3
40°-50°	561.6	17.9
50°-60°	510.3	16.3
60°-70°	386.8	12.4
70°-80°	221.6	7.1
80°-90°	59.9	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°	848.3	27.1
0°-40°	1388.8	44.4
0°-60°	2460.7	78.6
0°-90°	3129.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3129.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1094	1094	1094	1094	1094	
5°	1085	1086	1090	1092	1094	103
15°	1035	1040	1049	1058	1061	292
25°	950	953	976	992	1000	436
35°	822	837	863	895	908	513
45°	666	684	729	772	788	514
55°	491	517	575	625	644	438
65°	299	337	403	444	460	297
75°	135	168	212	253	269	145
85°	27	37	52	65	69	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1093.9	1093.9	1093.9	1093.9	1093.9
2.5°	1089.9	1090.9	1093.9	1095.9	1095.9
5°	1084.9	1085.9	1089.9	1091.9	1093.9
7.5°	1076.9	1078.9	1083.9	1086.9	1087.9
10°	1065.9	1068.9	1073.9	1078.9	1081.9
12.5°	1051.9	1054.9	1062.9	1069.9	1072.9
15°	1034.9	1039.9	1048.9	1057.9	1060.9
17.5°	1021.9	1022.9	1032.9	1044.9	1048.9
20°	997.9	1003.9	1013.9	1027.9	1033.9
22.5°	973.9	981.9	995.9	1011.9	1017.9
25°	949.9	952.9	975.9	991.9	999.9
27.5°	917.9	929.9	947.9	970.9	978.9
30°	885.9	897.9	923.9	946.9	957.9
32.5°	855.9	864.9	891.9	921.9	932.9
35°	821.9	836.9	862.9	894.9	907.9
37.5°	784.9	799.9	830.9	865.9	879.9
40°	745.9	761.9	797.9	837.9	851.9
42.5°	706.9	722.9	764.9	802.9	820.9
45°	665.9	683.9	728.9	771.9	787.9
47.5°	626.9	644.9	692.9	736.9	755.9
50°	578.9	604.9	653.9	699.9	719.9
52.5°	535.9	562.9	617.9	663.9	684.9
55°	490.9	516.9	574.9	624.9	643.9
57.5°	443.9	475.9	532.9	582.9	602.9
60°	397.0	429.0	490.9	537.9	559.9
62.5°	348.0	386.0	447.9	494.9	510.9
65°	299.0	337.0	403.0	443.9	459.9
67.5°	253.0	295.0	358.0	392.0	405.0
70°	208.0	252.0	308.0	339.0	355.0
72.5°	170.0	210.0	260.0	295.0	316.0
75°	135.0	168.0	212.0	253.0	269.0
77.5°	104.0	130.0	172.0	208.0	222.0
80°	73.0	93.0	133.0	163.0	170.0
82.5°	49.0	63.0	92.0	113.0	118.0
85°	27.0	37.0	52.0	65.0	69.0
87.5°	12.0	14.0	19.0	22.0	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)