

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: P232292

Luminaire Tested: **ATW-SW4-22RDI-30-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232292
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-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: 3004.0 lumens
Efficiency: N/A
Efficacy: 99.8 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

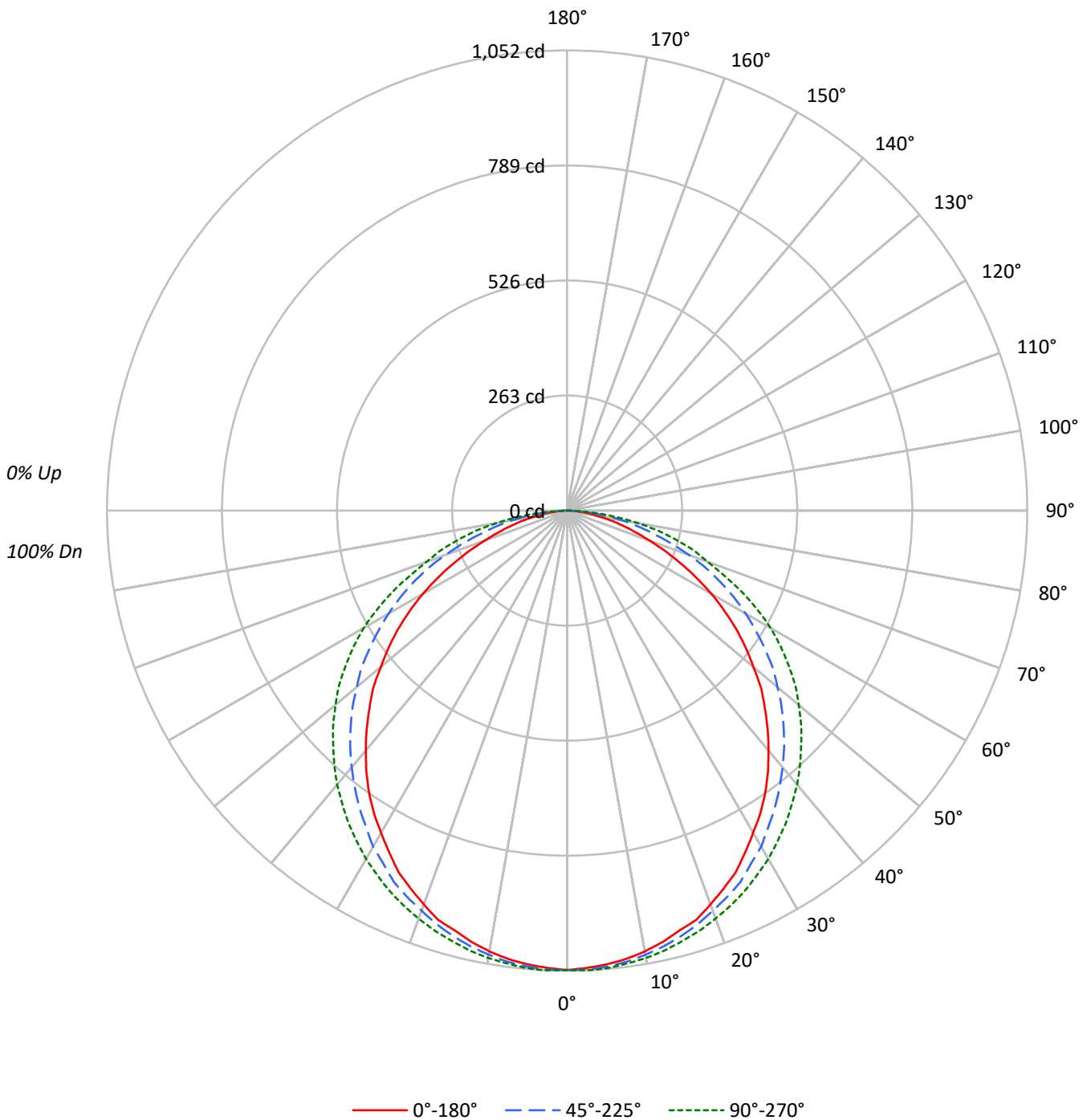
Input Watts (W): 30.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2826	2826	2826
5°	2813	2826	2837
10°	2796	2817	2838
15°	2768	2805	2837
20°	2743	2788	2842
25°	2708	2782	2850
30°	2643	2756	2857
35°	2592	2721	2863
40°	2516	2691	2873
45°	2433	2663	2879
50°	2327	2628	2894
55°	2211	2590	2900
60°	2051	2537	2893
65°	1827	2464	2812
70°	1571	2327	2681
75°	1347	2116	2685
80°	1086	1979	2529
85°	800	1541	2044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	3.3
10°-20°	284.2	9.5
20°-30°	430.8	14.3
30°-40°	518.9	17.3
40°-50°	539.2	17.9
50°-60°	489.9	16.3
60°-70°	371.3	12.4
70°-80°	212.7	7.1
80°-90°	57.5	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°	814.4	27.1
0°-40°	1333.3	44.4
0°-60°	2362.4	78.6
0°-90°	3004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1042	1042	1046	1048	1050	99
15°	994	998	1007	1016	1018	281
25°	912	915	937	952	960	419
35°	789	804	828	859	872	493
45°	639	657	700	741	756	493
55°	471	496	552	600	618	420
65°	287	324	387	426	442	285
75°	130	161	204	243	258	139
85°	26	36	50	62	66	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.2	1050.2	1050.2	1050.2	1050.2
2.5°	1046.3	1047.3	1050.2	1052.1	1052.1
5°	1041.5	1042.5	1046.3	1048.3	1050.2
7.5°	1033.9	1035.8	1040.6	1043.5	1044.4
10°	1023.3	1026.2	1031.0	1035.8	1038.7
12.5°	1009.9	1012.7	1020.4	1027.1	1030.0
15°	993.5	998.3	1007.0	1015.6	1018.5
17.5°	981.1	982.0	991.6	1003.1	1007.0
20°	958.0	963.8	973.4	986.8	992.6
22.5°	935.0	942.7	956.1	971.5	977.2
25°	911.9	914.8	936.9	952.3	959.9
27.5°	881.2	892.7	910.0	932.1	939.8
30°	850.5	862.0	887.0	909.1	919.6
32.5°	821.7	830.4	856.3	885.1	895.6
35°	789.1	803.5	828.4	859.1	871.6
37.5°	753.6	768.0	797.7	831.3	844.7
40°	716.1	731.5	766.0	804.4	817.9
42.5°	678.7	694.0	734.4	770.8	788.1
45°	639.3	656.6	699.8	741.1	756.4
47.5°	601.9	619.2	665.2	707.5	725.7
50°	555.8	580.8	627.8	672.0	691.2
52.5°	514.5	540.4	593.2	637.4	657.6
55°	471.3	496.3	552.0	600.0	618.2
57.5°	426.2	456.9	511.6	559.6	578.8
60°	381.1	411.8	471.3	516.4	537.6
62.5°	334.1	370.5	430.1	475.2	490.5
65°	287.0	323.5	386.9	426.2	441.6
67.5°	242.9	283.2	343.7	376.3	388.8
70°	199.7	241.9	295.7	325.4	340.8
72.5°	163.2	201.6	249.6	283.2	303.3
75°	129.6	161.3	203.5	242.9	258.2
77.5°	99.8	124.8	165.1	199.7	213.1
80°	70.1	89.3	127.7	156.5	163.2
82.5°	47.0	60.5	88.3	108.5	113.3
85°	25.9	35.5	49.9	62.4	66.2
87.5°	11.5	13.4	18.2	21.1	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)