

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: P232683

Luminaire Tested: **ATW-SW4-14RDI-25-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-212-2-R2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: ATW-SW4-14RDI-25-UNV-L830-CD1-U
Description: METALUX 1X4 RDI 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: 2441.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.21 / 1.3
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

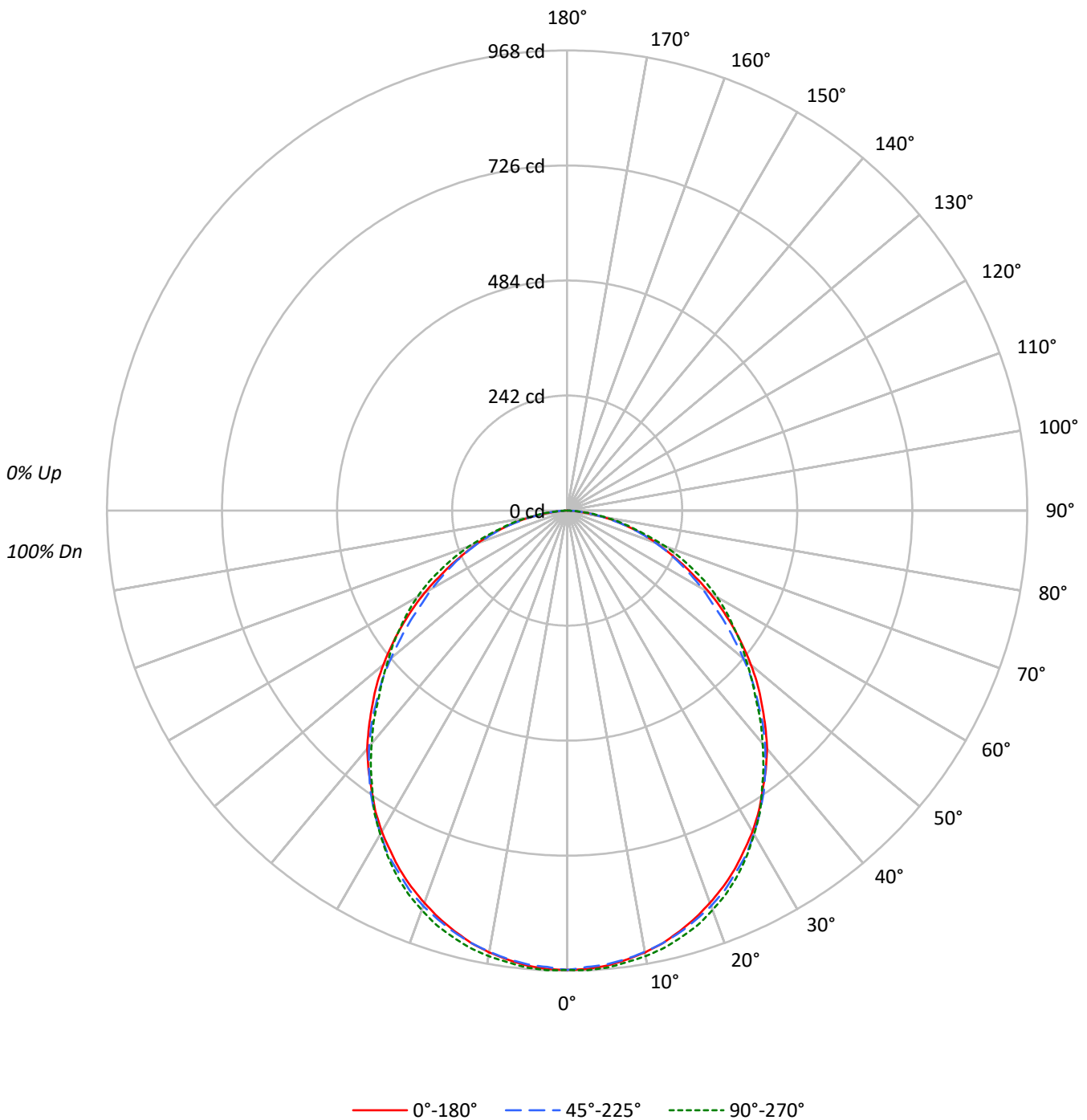
Input Watts (W): 24.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	71	58	50	43	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2600	2600	2600
5°	2596	2589	2607
10°	2579	2575	2600
15°	2551	2558	2588
20°	2515	2534	2561
25°	2473	2493	2517
30°	2423	2439	2444
35°	2356	2369	2347
40°	2299	2276	2248
45°	2206	2156	2135
50°	2115	2025	2059
55°	1995	1882	2007
60°	1865	1765	1958
65°	1706	1663	1859
70°	1573	1552	1720
75°	1413	1399	1496
80°	1178	1156	1260
85°	658	865	905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	3.7
10°-20°	259.8	10.6
20°-30°	387.1	15.9
30°-40°	449.7	18.4
40°-50°	440.7	18.1
50°-60°	373.0	15.3
60°-70°	266.1	10.9
70°-80°	140.0	5.7
80°-90°	33.3	1.4
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°	738.1	30.2
0°-40°	1187.9	48.7
0°-60°	2001.5	82.0
0°-90°	2441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2441.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	961	961	958	964	965	91
15°	916	916	918	926	929	258
25°	833	836	840	848	848	383
35°	717	722	721	718	714	449
45°	580	584	566	562	561	448
55°	425	421	401	418	428	380
65°	268	248	261	285	292	267
75°	136	107	135	143	144	144
85°	21	25	28	29	29	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.3	966.3	966.3	966.3	966.3
2.5°	965.0	965.0	961.0	966.3	967.6
5°	961.0	961.0	958.3	963.6	965.0
7.5°	953.0	953.0	951.6	958.3	958.3
10°	943.7	943.7	942.3	950.3	951.6
12.5°	931.7	931.7	931.7	941.0	942.3
15°	915.7	915.7	918.3	926.3	929.0
17.5°	898.3	901.0	902.3	911.7	914.3
20°	878.3	881.0	885.0	895.7	894.3
22.5°	857.0	859.7	865.0	874.3	873.0
25°	833.0	835.7	839.7	847.7	847.7
27.5°	806.4	810.4	815.7	819.7	818.4
30°	779.7	782.4	785.0	787.7	786.4
32.5°	750.4	754.4	754.4	754.4	754.4
35°	717.1	722.4	721.1	718.4	714.4
37.5°	686.4	690.4	685.1	681.1	678.4
40°	654.4	655.8	647.8	641.1	639.8
42.5°	617.1	621.1	609.1	601.1	602.4
45°	579.8	583.8	566.5	562.5	561.1
47.5°	543.8	546.5	527.8	522.5	526.5
50°	505.1	503.8	483.8	485.2	491.8
52.5°	465.2	462.5	441.2	451.8	461.2
55°	425.2	421.2	401.2	418.5	427.8
57.5°	385.2	379.9	361.2	386.5	397.2
60°	346.5	333.2	327.9	353.2	363.9
62.5°	305.2	290.6	293.2	319.9	330.5
65°	267.9	247.9	261.2	285.2	291.9
67.5°	231.9	206.6	229.2	250.6	255.9
70°	199.9	166.6	197.3	214.6	218.6
72.5°	167.9	133.3	165.3	177.3	178.6
75°	135.9	106.6	134.6	142.6	143.9
77.5°	105.3	84.0	104.0	112.0	114.6
80°	76.0	61.3	74.6	81.3	81.3
82.5°	46.6	41.3	49.3	53.3	56.0
85°	21.3	25.3	28.0	29.3	29.3
87.5°	6.7	9.3	10.7	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)