

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: P232685

Luminaire Tested: **ATW-SW4-14RDI-25-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232685
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-L840-CD1-U
Description: METALUX 1X4 RDI 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: 2543.0 lumens
Efficiency: N/A
Efficacy: 105.5 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

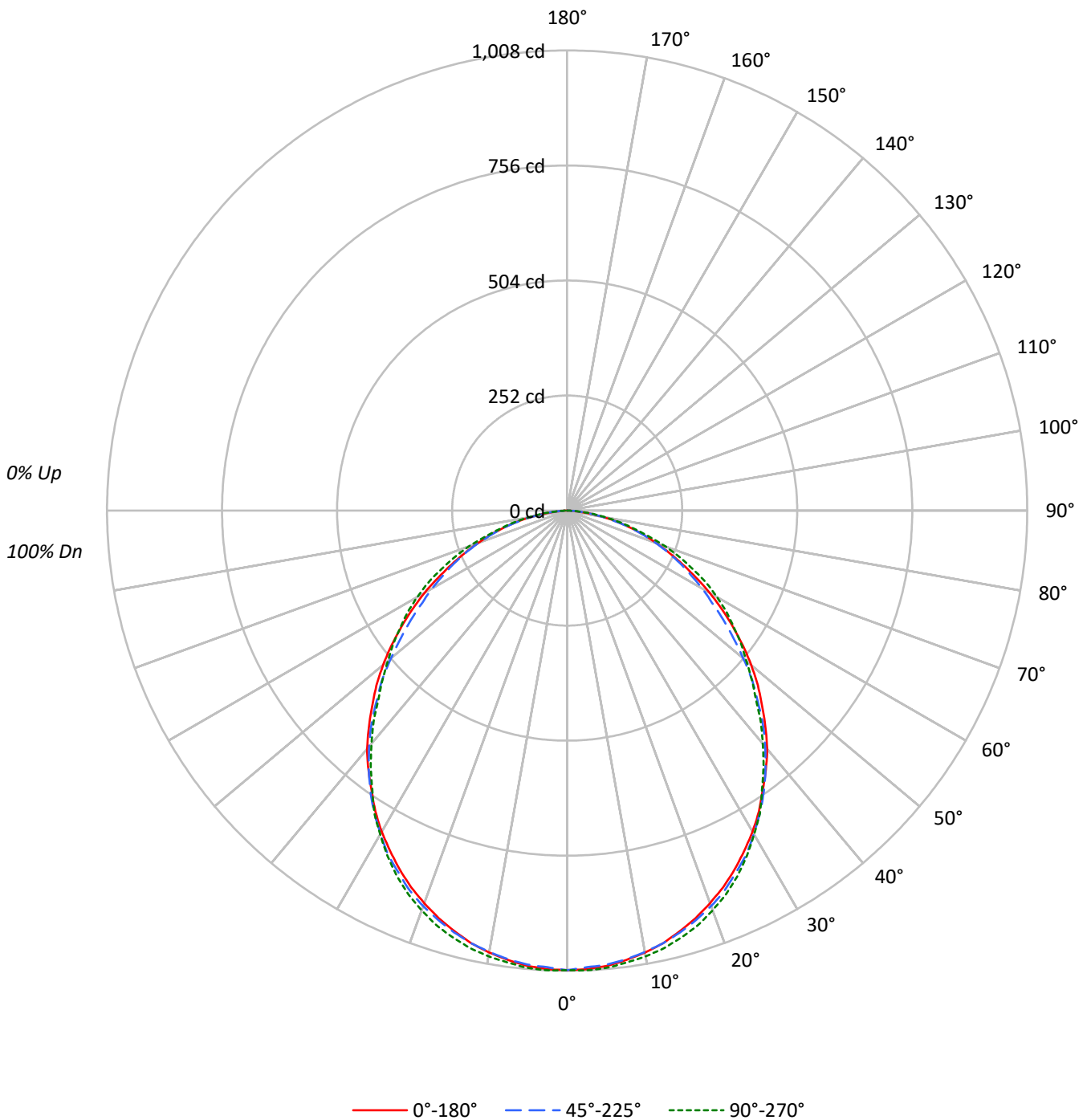
Input Watts (W): 24.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2709	2709	2709
5°	2704	2697	2716
10°	2686	2682	2709
15°	2657	2665	2696
20°	2620	2640	2668
25°	2577	2597	2622
30°	2524	2541	2545
35°	2454	2468	2445
40°	2395	2370	2341
45°	2299	2246	2225
50°	2203	2110	2145
55°	2078	1961	2091
60°	1943	1838	2040
65°	1777	1733	1936
70°	1639	1617	1792
75°	1472	1458	1560
80°	1226	1206	1313
85°	685	902	942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	3.7
10°-20°	270.6	10.6
20°-30°	403.3	15.9
30°-40°	468.5	18.4
40°-50°	459.1	18.1
50°-60°	388.6	15.3
60°-70°	277.3	10.9
70°-80°	145.9	5.7
80°-90°	34.7	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°	769.0	30.2
0°-40°	1237.5	48.7
0°-60°	2085.1	82.0
0°-90°	2543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2543.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1007	1007	1007	1007	1007	
5°	1001	1001	998	1004	1005	95
15°	954	954	957	965	968	269
25°	868	871	875	883	883	399
35°	747	753	751	748	744	468
45°	604	608	590	586	585	466
55°	443	439	418	436	446	396
65°	279	258	272	297	304	278
75°	142	111	140	149	150	150
85°	22	26	29	30	30	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.7	1006.7	1006.7	1006.7	1006.7
2.5°	1005.3	1005.3	1001.1	1006.7	1008.1
5°	1001.1	1001.1	998.4	1003.9	1005.3
7.5°	992.8	992.8	991.4	998.4	998.4
10°	983.1	983.1	981.7	990.0	991.4
12.5°	970.6	970.6	970.6	980.3	981.7
15°	953.9	953.9	956.7	965.0	967.8
17.5°	935.9	938.6	940.0	949.8	952.5
20°	915.0	917.8	922.0	933.1	931.7
22.5°	892.8	895.6	901.2	910.9	909.5
25°	867.8	870.6	874.8	883.1	883.1
27.5°	840.1	844.2	849.8	853.9	852.6
30°	812.3	815.1	817.8	820.6	819.2
32.5°	781.7	785.9	785.9	785.9	785.9
35°	747.0	752.6	751.2	748.4	744.3
37.5°	715.1	719.3	713.7	709.5	706.8
40°	681.8	683.2	674.8	667.9	666.5
42.5°	642.9	647.1	634.6	626.2	627.6
45°	604.0	608.2	590.1	586.0	584.6
47.5°	566.5	569.3	549.9	544.3	548.5
50°	526.3	524.9	504.0	505.4	512.4
52.5°	484.6	481.8	459.6	470.7	480.4
55°	442.9	438.8	417.9	436.0	445.7
57.5°	401.3	395.7	376.3	402.7	413.8
60°	361.0	347.1	341.6	368.0	379.1
62.5°	318.0	302.7	305.5	333.2	344.4
65°	279.1	258.3	272.2	297.1	304.1
67.5°	241.6	215.2	238.8	261.0	266.6
70°	208.3	173.6	205.5	223.6	227.7
72.5°	175.0	138.9	172.2	184.7	186.1
75°	141.6	111.1	140.2	148.6	150.0
77.5°	109.7	87.5	108.3	116.6	119.4
80°	79.1	63.9	77.8	84.7	84.7
82.5°	48.6	43.0	51.4	55.5	58.3
85°	22.2	26.4	29.2	30.5	30.5
87.5°	6.9	9.7	11.1	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)