

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: P232682

Luminaire Tested: **ATW-SW4-14RDI-18-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232682
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-18-UNV-L850-CD1-U
Description: METALUX 1X4 RDI 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: 1904.0 lumens
Efficiency: N/A
Efficacy: 109.4 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

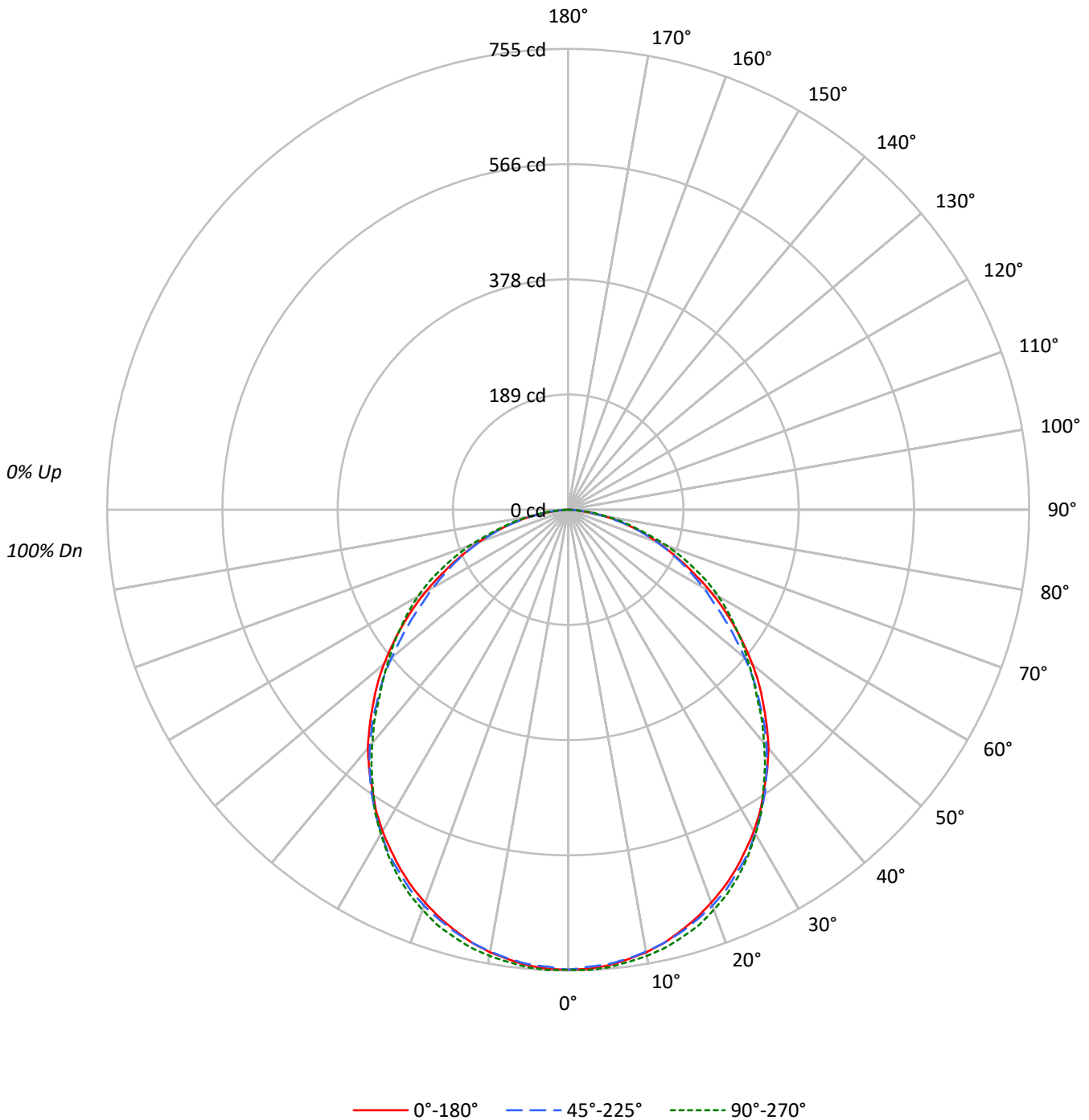
Input Watts (W): 17.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2028	2028	2028
5°	2025	2019	2033
10°	2011	2008	2028
15°	1990	1996	2019
20°	1962	1977	1998
25°	1929	1945	1963
30°	1890	1903	1906
35°	1837	1848	1830
40°	1793	1775	1753
45°	1721	1681	1666
50°	1649	1580	1606
55°	1556	1468	1566
60°	1455	1376	1527
65°	1331	1298	1450
70°	1227	1211	1341
75°	1102	1092	1168
80°	919	902	982
85°	513	673	707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	3.7
10°-20°	202.6	10.6
20°-30°	301.9	15.9
30°-40°	350.8	18.4
40°-50°	343.7	18.1
50°-60°	290.9	15.3
60°-70°	207.6	10.9
70°-80°	109.2	5.7
80°-90°	26.0	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°	575.8	30.2
0°-40°	926.5	48.7
0°-60°	1561.2	82.0
0°-90°	1904.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1904.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	754	754	754	754	754	
5°	750	750	748	752	753	71
15°	714	714	716	722	725	201
25°	650	652	655	661	661	299
35°	559	564	562	560	557	350
45°	452	455	442	439	438	349
55°	332	328	313	326	334	297
65°	209	193	204	222	228	208
75°	106	83	105	111	112	112
85°	17	20	22	23	23	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	753.7	753.7	753.7	753.7	753.7
2.5°	752.7	752.7	749.6	753.7	754.8
5°	749.6	749.6	747.5	751.6	752.7
7.5°	743.3	743.3	742.3	747.5	747.5
10°	736.1	736.1	735.0	741.3	742.3
12.5°	726.7	726.7	726.7	734.0	735.0
15°	714.2	714.2	716.3	722.5	724.6
17.5°	700.7	702.8	703.8	711.1	713.2
20°	685.1	687.2	690.3	698.6	697.6
22.5°	668.5	670.6	674.7	682.0	681.0
25°	649.8	651.8	655.0	661.2	661.2
27.5°	629.0	632.1	636.3	639.4	638.3
30°	608.2	610.3	612.3	614.4	613.4
32.5°	585.3	588.4	588.4	588.4	588.4
35°	559.3	563.5	562.4	560.4	557.2
37.5°	535.4	538.5	534.4	531.2	529.2
40°	510.5	511.5	505.3	500.1	499.0
42.5°	481.3	484.5	475.1	468.9	469.9
45°	452.2	455.4	441.8	438.7	437.7
47.5°	424.2	426.2	411.7	407.5	410.7
50°	394.0	393.0	377.4	378.4	383.6
52.5°	362.8	360.8	344.1	352.4	359.7
55°	331.6	328.5	312.9	326.4	333.7
57.5°	300.5	296.3	281.7	301.5	309.8
60°	270.3	259.9	255.7	275.5	283.8
62.5°	238.1	226.6	228.7	249.5	257.8
65°	209.0	193.4	203.8	222.5	227.7
67.5°	180.9	161.1	178.8	195.4	199.6
70°	155.9	130.0	153.9	167.4	170.5
72.5°	131.0	104.0	128.9	138.3	139.3
75°	106.0	83.2	105.0	111.2	112.3
77.5°	82.1	65.5	81.1	87.3	89.4
80°	59.3	47.8	58.2	63.4	63.4
82.5°	36.4	32.2	38.5	41.6	43.7
85°	16.6	19.8	21.8	22.9	22.9
87.5°	5.2	7.3	8.3	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)