

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: P232680

Luminaire Tested: **ATW-SW4-14RDI-18-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232680
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-L835-CD1-U
Description: METALUX 1X4 RDI LED TROFFER
CHICAGO RATED VERSION
Light Source: (196)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1831.0 lumens
Efficiency: N/A
Efficacy: 105.2 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

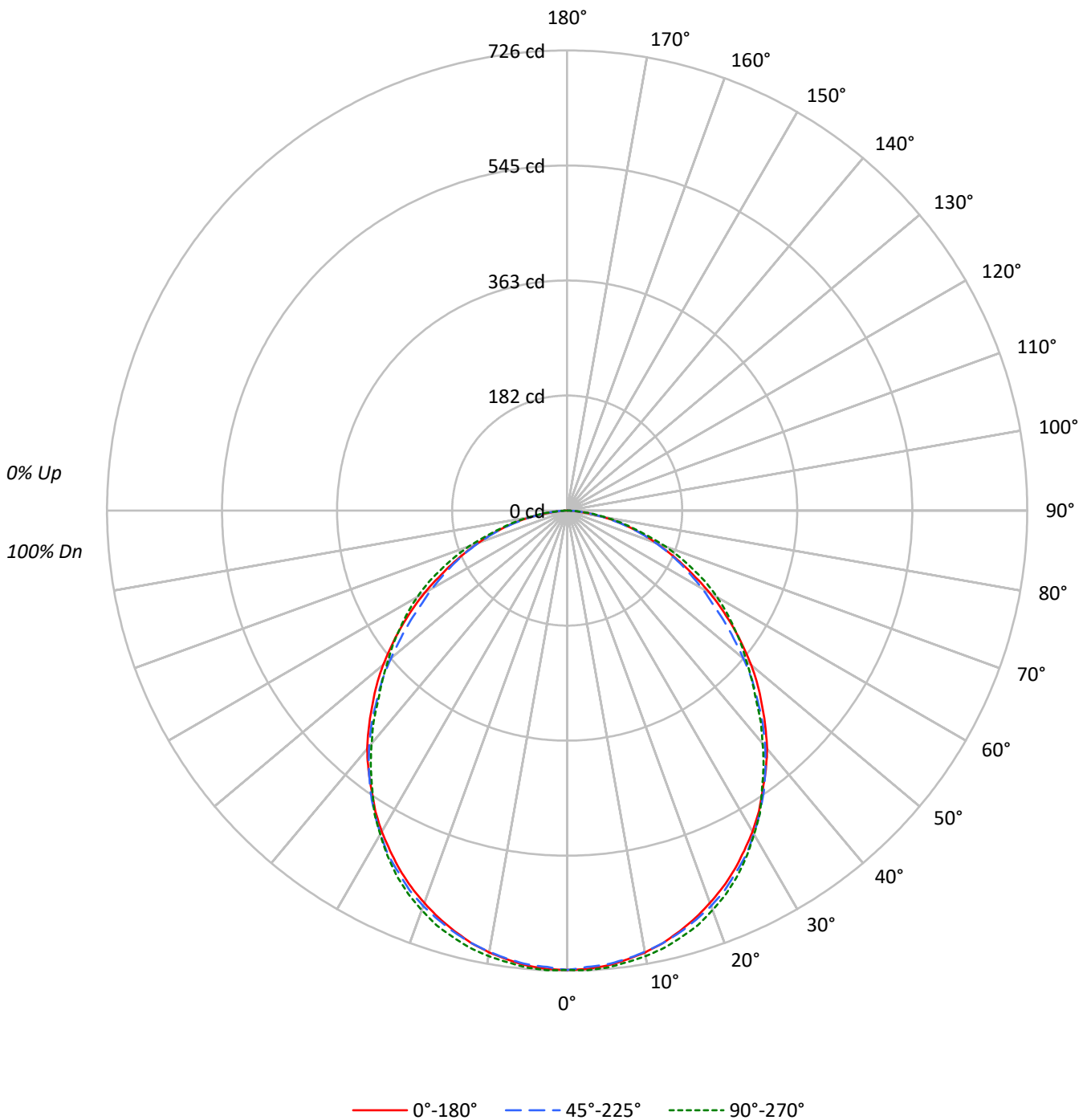
Input Watts (W): 17.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1950	1950	1950
5°	1947	1942	1955
10°	1934	1931	1950
15°	1913	1919	1941
20°	1887	1901	1921
25°	1855	1870	1888
30°	1817	1830	1833
35°	1767	1777	1760
40°	1724	1707	1686
45°	1655	1617	1602
50°	1586	1519	1544
55°	1496	1412	1506
60°	1399	1323	1469
65°	1280	1248	1394
70°	1180	1164	1290
75°	1061	1050	1123
80°	883	868	945
85°	494	648	679



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	3.7
10°-20°	194.8	10.6
20°-30°	290.4	15.9
30°-40°	337.4	18.4
40°-50°	330.5	18.1
50°-60°	279.8	15.3
60°-70°	199.6	10.9
70°-80°	105.0	5.7
80°-90°	25.0	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°	553.7	30.2
0°-40°	891.0	48.7
0°-60°	1501.3	82.0
0°-90°	1831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1831.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	721	721	719	723	724	68
15°	687	687	689	695	697	194
25°	625	627	630	636	636	288
35°	538	542	541	539	536	337
45°	435	438	425	422	421	336
55°	319	316	301	314	321	285
65°	201	186	196	214	219	200
75°	102	80	101	107	108	108
85°	16	19	21	22	22	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	724.8	724.8	724.8	724.8	724.8
2.5°	723.8	723.8	720.8	724.8	725.8
5°	720.8	720.8	718.8	722.8	723.8
7.5°	714.8	714.8	713.8	718.8	718.8
10°	707.8	707.8	706.8	712.8	713.8
12.5°	698.8	698.8	698.8	705.8	706.8
15°	686.8	686.8	688.8	694.8	696.8
17.5°	673.8	675.8	676.8	683.8	685.8
20°	658.8	660.8	663.8	671.8	670.8
22.5°	642.8	644.8	648.8	655.8	654.8
25°	624.9	626.9	629.9	635.9	635.9
27.5°	604.9	607.9	611.9	614.9	613.9
30°	584.9	586.9	588.9	590.9	589.9
32.5°	562.9	565.9	565.9	565.9	565.9
35°	537.9	541.9	540.9	538.9	535.9
37.5°	514.9	517.9	513.9	510.9	508.9
40°	490.9	491.9	485.9	480.9	479.9
42.5°	462.9	465.9	456.9	450.9	451.9
45°	434.9	437.9	424.9	421.9	420.9
47.5°	407.9	409.9	395.9	391.9	394.9
50°	378.9	377.9	362.9	363.9	368.9
52.5°	348.9	346.9	330.9	338.9	345.9
55°	318.9	315.9	300.9	313.9	320.9
57.5°	288.9	284.9	270.9	289.9	297.9
60°	259.9	249.9	245.9	264.9	272.9
62.5°	228.9	217.9	219.9	239.9	247.9
65°	201.0	186.0	196.0	214.0	218.9
67.5°	174.0	155.0	172.0	188.0	192.0
70°	150.0	125.0	148.0	161.0	164.0
72.5°	126.0	100.0	124.0	133.0	134.0
75°	102.0	80.0	101.0	107.0	108.0
77.5°	79.0	63.0	78.0	84.0	86.0
80°	57.0	46.0	56.0	61.0	61.0
82.5°	35.0	31.0	37.0	40.0	42.0
85°	16.0	19.0	21.0	22.0	22.0
87.5°	5.0	7.0	8.0	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)