

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: P232679

Luminaire Tested: **ATW-SW4-14RDI-18-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232679
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-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: 1758.0 lumens
Efficiency: N/A
Efficacy: 101.0 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

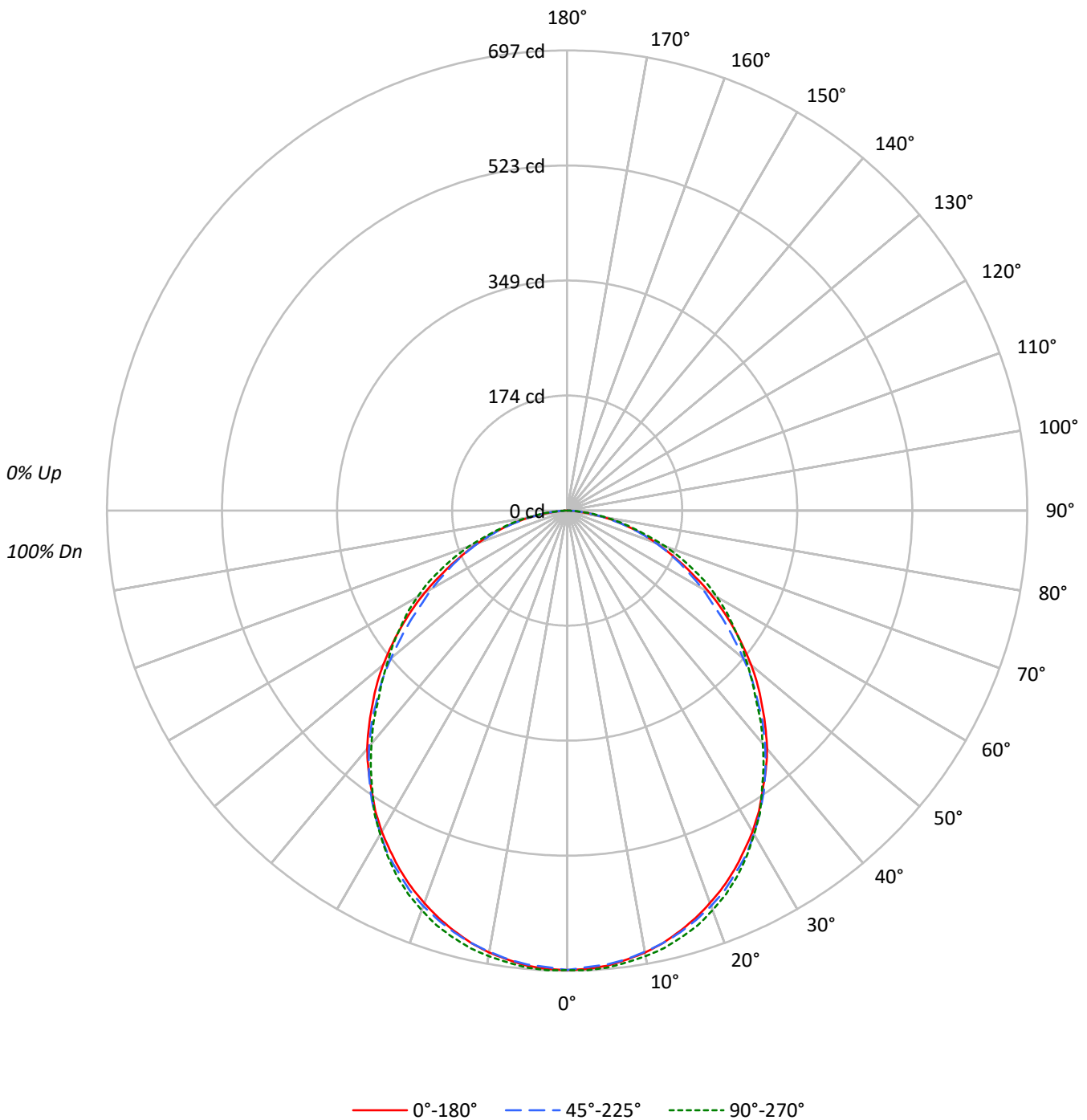
Input Watts (W): 17.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P232679

CATALOG NUMBER: ATW-SW4-14RDI-18-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P232679

CATALOG NUMBER: ATW-SW4-14RDI-18-UNV-L830-CD1-U

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°	1873	1873	1873
5°	1870	1864	1877
10°	1857	1855	1873
15°	1837	1843	1864
20°	1812	1825	1844
25°	1781	1795	1813
30°	1745	1757	1760
35°	1696	1706	1690
40°	1656	1639	1619
45°	1589	1553	1538
50°	1523	1459	1483
55°	1437	1355	1445
60°	1343	1271	1411
65°	1228	1198	1338
70°	1133	1118	1238
75°	1018	1009	1078
80°	848	834	908
85°	475	624	651



TEST NUMBER: P232679

CATALOG NUMBER: ATW-SW4-14RDI-18-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	3.7
10°-20°	187.1	10.6
20°-30°	278.8	15.9
30°-40°	323.9	18.4
40°-50°	317.4	18.1
50°-60°	268.6	15.3
60°-70°	191.7	10.9
70°-80°	100.8	5.7
80°-90°	24.0	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°	531.6	30.2
0°-40°	855.5	48.7
0°-60°	1441.5	82.0
0°-90°	1758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	692	692	690	694	695	66
15°	660	660	661	667	669	186
25°	600	602	605	610	610	276
35°	516	520	519	517	514	324
45°	418	420	408	405	404	322
55°	306	303	289	301	308	274
65°	193	178	188	205	210	192
75°	98	77	97	103	104	104
85°	15	18	20	21	21	22
90°	0	0	0	0	0	



TEST NUMBER: P232679

CATALOG NUMBER: ATW-SW4-14RDI-18-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	695.9	695.9	695.9	695.9	695.9
2.5°	695.0	695.0	692.1	695.9	696.9
5°	692.1	692.1	690.2	694.0	695.0
7.5°	686.3	686.3	685.4	690.2	690.2
10°	679.6	679.6	678.7	684.4	685.4
12.5°	671.0	671.0	671.0	677.7	678.7
15°	659.5	659.5	661.4	667.1	669.1
17.5°	647.0	648.9	649.9	656.6	658.5
20°	632.6	634.5	637.4	645.1	644.1
22.5°	617.2	619.1	623.0	629.7	628.7
25°	599.9	601.9	604.7	610.5	610.5
27.5°	580.7	583.6	587.5	590.3	589.4
30°	561.5	563.5	565.4	567.3	566.3
32.5°	540.4	543.3	543.3	543.3	543.3
35°	516.4	520.3	519.3	517.4	514.5
37.5°	494.4	497.2	493.4	490.5	488.6
40°	471.3	472.3	466.5	461.7	460.8
42.5°	444.4	447.3	438.7	432.9	433.9
45°	417.6	420.4	408.0	405.1	404.1
47.5°	391.6	393.6	380.1	376.3	379.2
50°	363.8	362.8	348.4	349.4	354.2
52.5°	335.0	333.1	317.7	325.4	332.1
55°	306.2	303.3	288.9	301.4	308.1
57.5°	277.4	273.6	260.1	278.4	286.1
60°	249.6	240.0	236.1	254.4	262.1
62.5°	219.8	209.3	211.2	230.4	238.1
65°	192.9	178.5	188.1	205.4	210.2
67.5°	167.0	148.8	165.1	180.5	184.3
70°	144.0	120.0	142.1	154.5	157.4
72.5°	120.9	96.0	119.0	127.7	128.6
75°	97.9	76.8	97.0	102.7	103.7
77.5°	75.8	60.5	74.9	80.6	82.6
80°	54.7	44.2	53.8	58.6	58.6
82.5°	33.6	29.8	35.5	38.4	40.3
85°	15.4	18.2	20.2	21.1	21.1
87.5°	4.8	6.7	7.7	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)