

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: P232291

Luminaire Tested: **ATW-SW4-22RDI-20-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-078-15-R2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: ATW-SW4-22RDI-20-UNV-L850-CD1-U
Description: METALUX 2X2 OVATION 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: 2174.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

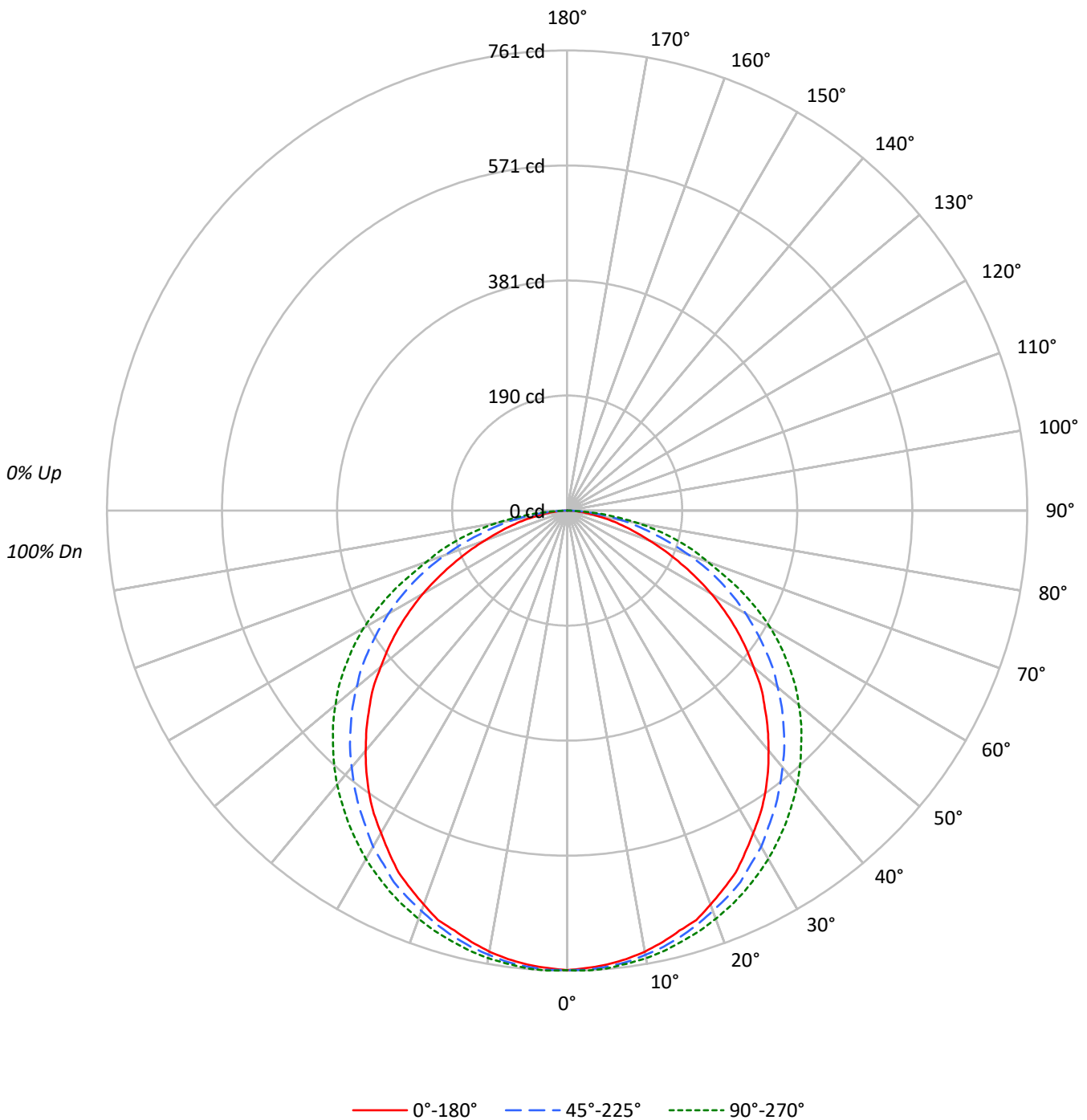
Input Watts (W): 19.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2045	2045	2045
5°	2036	2045	2053
10°	2024	2039	2054
15°	2003	2030	2053
20°	1985	2017	2057
25°	1960	2013	2063
30°	1913	1995	2068
35°	1876	1969	2072
40°	1821	1948	2079
45°	1761	1927	2083
50°	1684	1902	2094
55°	1600	1874	2099
60°	1484	1836	2094
65°	1323	1783	2035
70°	1137	1684	1940
75°	975	1531	1943
80°	786	1432	1830
85°	580	1115	1479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	3.3
10°-20°	205.7	9.5
20°-30°	311.8	14.3
30°-40°	375.6	17.3
40°-50°	390.2	17.9
50°-60°	354.6	16.3
60°-70°	268.7	12.4
70°-80°	154.0	7.1
80°-90°	41.6	1.9
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°	589.4	27.1
0°-40°	964.9	44.4
0°-60°	1709.7	78.6
0°-90°	2174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2174.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	760	760	760	760	760	
5°	754	754	757	759	760	72
15°	719	722	729	735	737	203
25°	660	662	678	689	695	303
35°	571	582	600	622	631	357
45°	463	475	506	536	547	357
55°	341	359	400	434	447	304
65°	208	234	280	308	320	206
75°	94	117	147	176	187	101
85°	19	26	36	45	48	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	760.0	760.0	760.0	760.0	760.0
2.5°	757.2	757.9	760.0	761.4	761.4
5°	753.8	754.5	757.2	758.6	760.0
7.5°	748.2	749.6	753.1	755.2	755.8
10°	740.6	742.6	746.1	749.6	751.7
12.5°	730.8	732.9	738.5	743.3	745.4
15°	719.0	722.5	728.8	735.0	737.1
17.5°	710.0	710.7	717.6	726.0	728.8
20°	693.3	697.5	704.4	714.2	718.3
22.5°	676.6	682.2	691.9	703.0	707.2
25°	660.0	662.1	678.0	689.2	694.7
27.5°	637.7	646.1	658.6	674.6	680.1
30°	615.5	623.9	641.9	657.9	665.5
32.5°	594.7	600.9	619.7	640.5	648.2
35°	571.1	581.5	599.5	621.8	630.8
37.5°	545.3	555.8	577.3	601.6	611.3
40°	518.3	529.4	554.4	582.2	591.9
42.5°	491.2	502.3	531.5	557.9	570.4
45°	462.7	475.2	506.4	536.3	547.4
47.5°	435.6	448.1	481.4	512.0	525.2
50°	402.2	420.3	454.3	486.3	500.2
52.5°	372.4	391.1	429.3	461.3	475.9
55°	341.1	359.2	399.5	434.2	447.4
57.5°	308.5	330.7	370.3	405.0	418.9
60°	275.8	298.0	341.1	373.8	389.0
62.5°	241.8	268.2	311.2	343.9	355.0
65°	207.7	234.1	280.0	308.5	319.6
67.5°	175.8	204.9	248.7	272.3	281.4
70°	144.5	175.1	214.0	235.5	246.6
72.5°	118.1	145.9	180.6	204.9	219.5
75°	93.8	116.7	147.3	175.8	186.9
77.5°	72.3	90.3	119.5	144.5	154.2
80°	50.7	64.6	92.4	113.2	118.1
82.5°	34.0	43.8	63.9	78.5	82.0
85°	18.8	25.7	36.1	45.2	47.9
87.5°	8.3	9.7	13.2	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)