

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: P232288

Luminaire Tested: **ATW-SW4-22RDI-20-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232288
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-L830-CD1-U
Description: METALUX 2X2 OVATION 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: 2007.0 lumens
Efficiency: N/A
Efficacy: 100.9 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

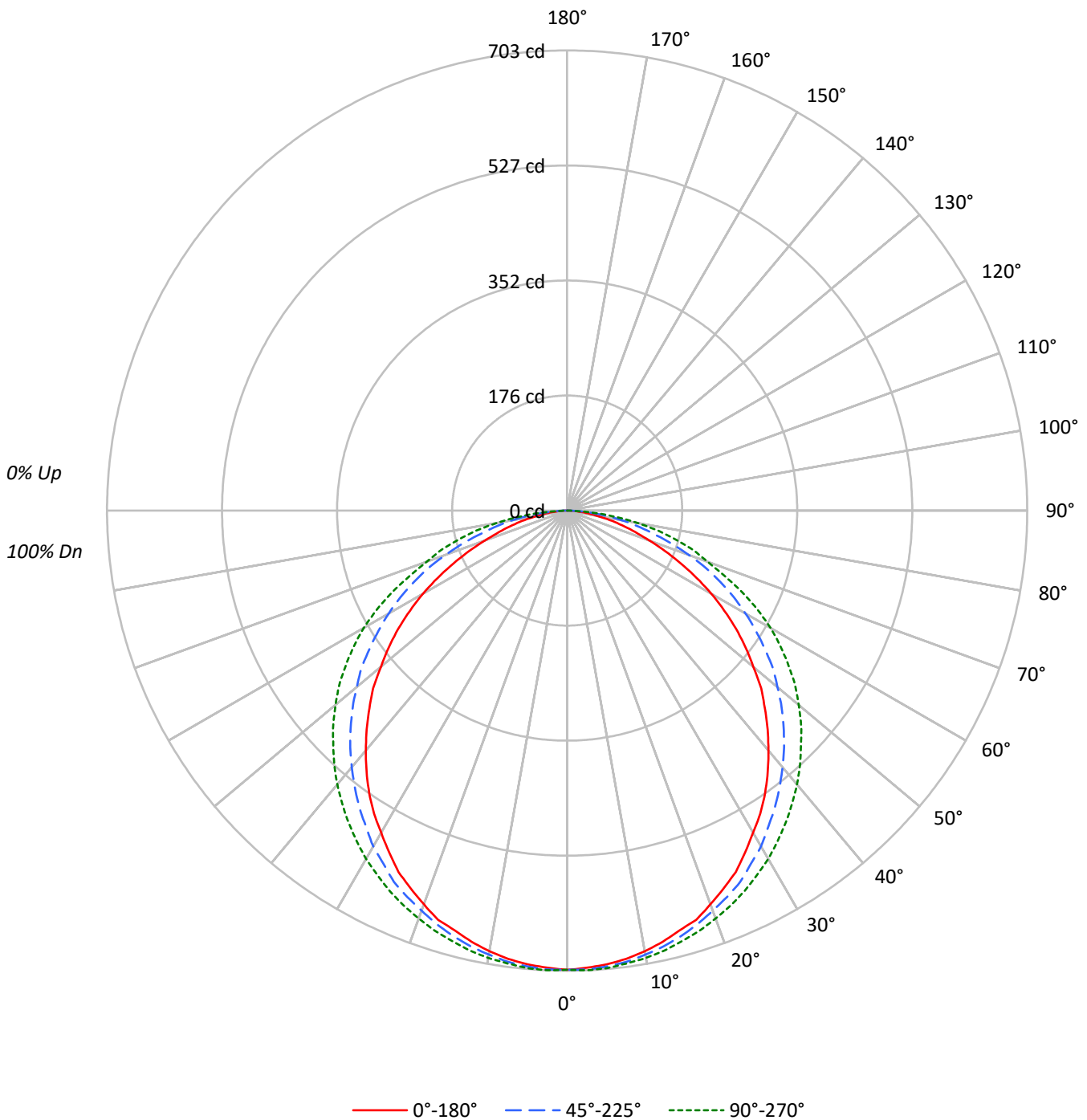
Input Watts (W): 19.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1888	1888	1888
5°	1880	1888	1895
10°	1868	1882	1896
15°	1849	1874	1896
20°	1833	1862	1899
25°	1809	1859	1904
30°	1766	1841	1909
35°	1732	1818	1913
40°	1681	1798	1919
45°	1625	1779	1923
50°	1554	1756	1933
55°	1477	1730	1938
60°	1370	1695	1933
65°	1221	1646	1878
70°	1050	1554	1792
75°	900	1414	1794
80°	725	1322	1689
85°	534	1031	1368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	3.3
10°-20°	189.9	9.5
20°-30°	287.8	14.3
30°-40°	346.7	17.3
40°-50°	360.2	17.9
50°-60°	327.3	16.3
60°-70°	248.1	12.4
70°-80°	142.1	7.1
80°-90°	38.4	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°	544.1	27.1
0°-40°	890.8	44.4
0°-60°	1578.4	78.6
0°-90°	2007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2007.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	696	696	699	700	702	66
15°	664	667	673	678	680	188
25°	609	611	626	636	641	280
35°	527	537	554	574	582	329
45°	427	439	468	495	505	329
55°	315	332	369	401	413	281
65°	192	216	258	285	295	191
75°	87	108	136	162	172	93
85°	17	24	33	42	44	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	701.6	701.6	701.6	701.6	701.6
2.5°	699.1	699.7	701.6	702.9	702.9
5°	695.9	696.5	699.1	700.4	701.6
7.5°	690.7	692.0	695.2	697.1	697.8
10°	683.7	685.6	688.8	692.0	693.9
12.5°	674.7	676.6	681.8	686.2	688.2
15°	663.8	667.0	672.8	678.5	680.5
17.5°	655.5	656.1	662.5	670.2	672.8
20°	640.1	643.9	650.3	659.3	663.2
22.5°	624.7	629.8	638.8	649.0	652.9
25°	609.3	611.2	626.0	636.2	641.3
27.5°	588.8	596.5	608.0	622.7	627.9
30°	568.2	575.9	592.6	607.4	614.4
32.5°	549.0	554.8	572.1	591.3	598.4
35°	527.2	536.8	553.5	574.0	582.3
37.5°	503.5	513.1	533.0	555.4	564.4
40°	478.4	488.7	511.8	537.4	546.4
42.5°	453.4	463.7	490.6	515.0	526.5
45°	427.1	438.7	467.5	495.1	505.4
47.5°	402.1	413.7	444.5	472.7	484.9
50°	371.3	388.0	419.4	448.9	461.8
52.5°	343.8	361.1	396.4	425.9	439.3
55°	314.9	331.6	368.8	400.8	413.0
57.5°	284.8	305.3	341.8	373.9	386.7
60°	254.6	275.1	314.9	345.0	359.2
62.5°	223.2	247.6	287.3	317.5	327.7
65°	191.8	216.1	258.5	284.8	295.0
67.5°	162.3	189.2	229.6	251.4	259.7
70°	133.4	161.6	197.5	217.4	227.7
72.5°	109.0	134.7	166.8	189.2	202.7
75°	86.6	107.7	136.0	162.3	172.5
77.5°	66.7	83.4	110.3	133.4	142.4
80°	46.8	59.6	85.3	104.5	109.0
82.5°	31.4	40.4	59.0	72.5	75.7
85°	17.3	23.7	33.4	41.7	44.3
87.5°	7.7	9.0	12.2	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)