

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: P232264

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-078-10-R2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RDI-20-UNV-L830-CD1-U
Description: METALUX 2X2 OVATION LED TROFFER
STANDARD VERISON
Light Source: (196) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1945.0 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.39
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

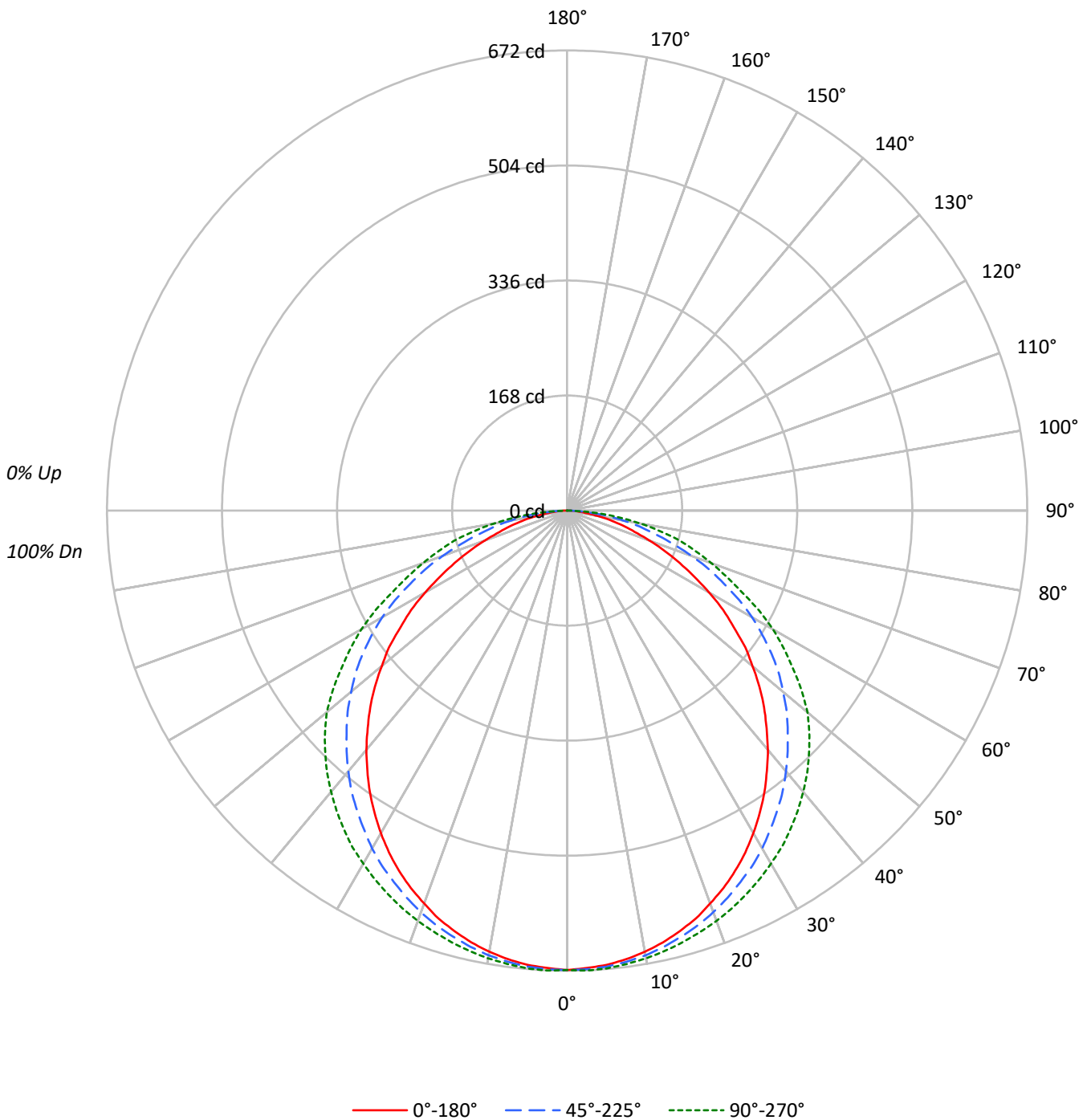
Input Watts (W): 19.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	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°	1806	1806	1806
5°	1799	1806	1813
10°	1788	1802	1814
15°	1771	1794	1818
20°	1749	1788	1826
25°	1724	1777	1836
30°	1690	1770	1850
35°	1650	1758	1867
40°	1602	1747	1884
45°	1548	1733	1902
50°	1480	1724	1917
55°	1393	1710	1890
60°	1291	1678	1868
65°	1156	1610	1789
70°	1005	1524	1762
75°	867	1387	1781
80°	705	1292	1671
85°	516	1031	1386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	3.3
10°-20°	181.9	9.3
20°-30°	276.3	14.2
30°-40°	334.9	17.2
40°-50°	350.8	18.0
50°-60°	319.5	16.4
60°-70°	241.1	12.4
70°-80°	139.2	7.2
80°-90°	37.9	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°	521.7	26.8
0°-40°	856.6	44.0
0°-60°	1526.9	78.5
0°-90°	1945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1945.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	671	671	671	671	671	
5°	666	666	668	670	671	63
15°	636	638	644	650	652	179
25°	581	586	598	613	618	267
35°	502	513	535	558	568	314
45°	407	422	456	488	500	313
55°	297	321	364	395	403	266
65°	182	212	253	275	281	180
75°	83	105	133	160	171	89
85°	17	22	33	41	45	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	671.0	671.0	671.0	671.0	671.0
2.5°	668.5	669.1	670.4	671.7	672.3
5°	665.9	666.5	668.5	670.4	671.0
7.5°	660.8	662.0	664.6	667.2	667.8
10°	654.3	655.6	659.5	662.7	664.0
12.5°	646.0	647.9	652.4	656.9	658.8
15°	635.7	638.3	644.1	649.8	652.4
17.5°	624.8	627.4	635.1	642.8	645.4
20°	610.7	614.6	624.2	633.8	637.7
22.5°	596.6	600.5	612.0	624.2	628.7
25°	580.6	586.3	598.5	613.3	618.4
27.5°	563.2	569.7	585.1	601.1	607.5
30°	544.0	551.7	569.7	588.3	595.3
32.5°	523.5	532.5	552.3	574.2	583.1
35°	502.3	512.6	535.0	558.1	568.4
37.5°	479.2	490.8	517.1	542.1	553.0
40°	456.1	468.3	497.2	525.4	536.3
42.5°	431.1	445.8	476.6	507.4	519.0
45°	406.7	422.1	455.5	488.2	499.7
47.5°	381.1	397.7	434.9	467.7	479.8
50°	353.5	373.4	411.8	445.8	458.0
52.5°	327.8	348.3	389.4	421.5	431.7
55°	297.0	321.4	364.4	395.2	402.9
57.5°	270.1	294.5	338.1	365.7	375.3
60°	239.9	268.2	311.8	337.4	347.1
62.5°	209.1	239.9	283.5	307.3	315.6
65°	181.5	211.7	252.8	275.2	281.0
67.5°	154.6	185.4	224.5	245.1	251.5
70°	127.7	157.2	193.7	213.6	223.9
72.5°	103.3	131.5	162.3	186.7	196.3
75°	83.4	104.6	133.4	159.7	171.3
77.5°	64.2	80.8	108.4	133.4	139.8
80°	45.5	59.0	83.4	103.3	107.8
82.5°	28.9	40.4	58.4	71.2	77.0
85°	16.7	22.5	33.4	41.1	44.9
87.5°	7.1	9.6	11.5	13.5	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)