

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: P232272

Luminaire Tested: **22RDI-40-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232272
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-40-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: 3913.0 lumens
Efficiency: N/A
Efficacy: 93.6 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

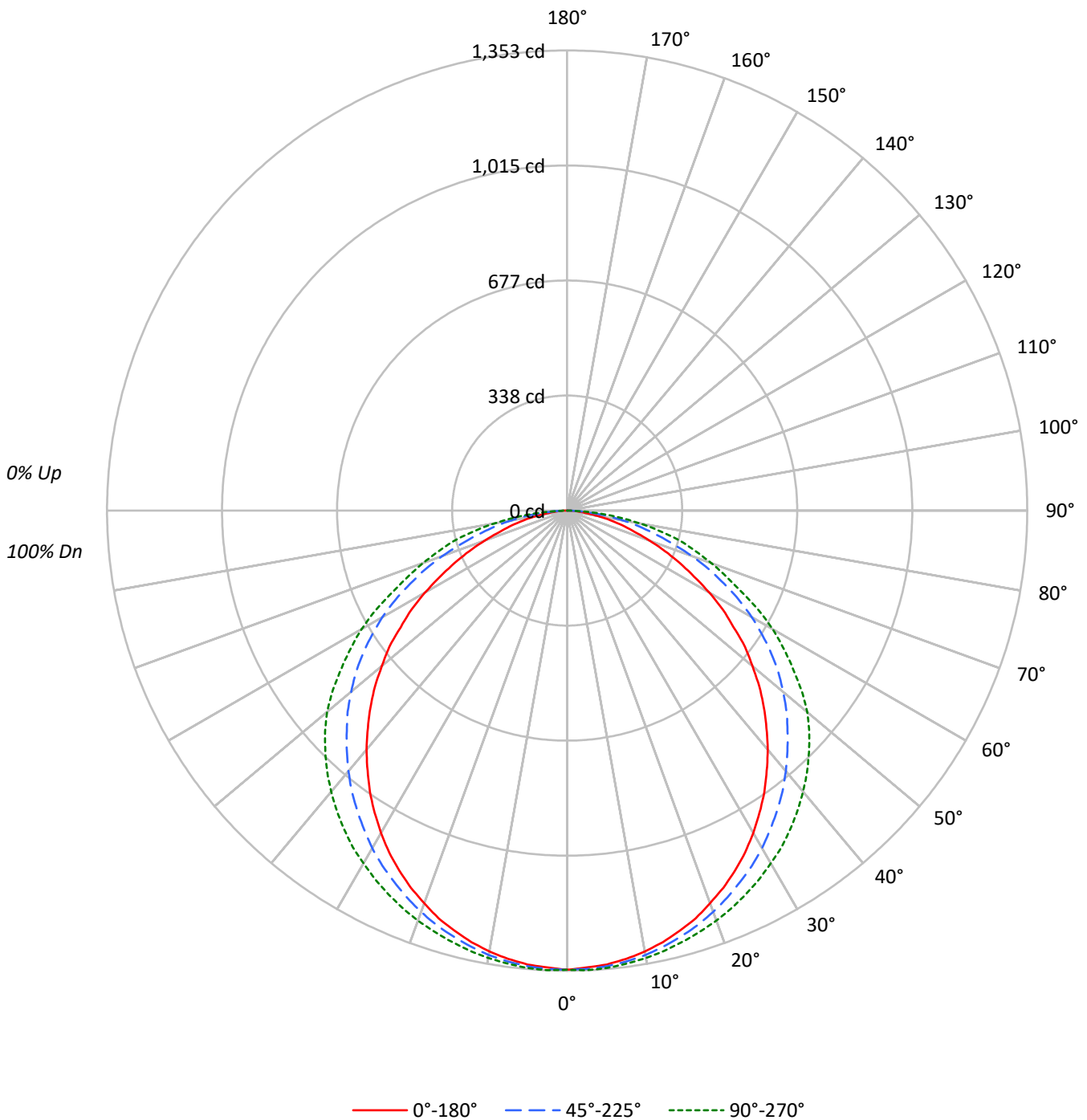
Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3633	3633	3633
5°	3619	3633	3647
10°	3597	3625	3650
15°	3563	3610	3657
20°	3519	3596	3674
25°	3468	3575	3694
30°	3401	3561	3722
35°	3320	3536	3756
40°	3223	3514	3790
45°	3114	3487	3826
50°	2977	3469	3858
55°	2803	3439	3803
60°	2598	3376	3758
65°	2325	3238	3599
70°	2020	3067	3544
75°	1745	2791	3583
80°	1420	2600	3360
85°	1037	2072	2788



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	3.3
10°-20°	365.9	9.4
20°-30°	555.9	14.2
30°-40°	673.8	17.2
40°-50°	705.8	18.0
50°-60°	642.8	16.4
60°-70°	485.0	12.4
70°-80°	280.1	7.2
80°-90°	76.2	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°	1049.5	26.8
0°-40°	1723.2	44.0
0°-60°	3071.8	78.5
0°-90°	3913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1340	1341	1345	1349	1350	127
15°	1279	1284	1296	1307	1312	361
25°	1168	1180	1204	1234	1244	538
35°	1010	1031	1076	1123	1144	631
45°	818	849	916	982	1005	630
55°	598	647	733	795	810	536
65°	365	426	508	554	565	363
75°	168	210	268	321	345	179
85°	34	45	67	83	90	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1350.0	1350.0	1350.0	1350.0	1350.0
2.5°	1344.8	1346.1	1348.7	1351.3	1352.6
5°	1339.6	1340.9	1344.8	1348.7	1350.0
7.5°	1329.3	1331.9	1337.1	1342.2	1343.5
10°	1316.4	1319.0	1326.7	1333.2	1335.8
12.5°	1299.6	1303.5	1312.5	1321.6	1325.5
15°	1279.0	1284.2	1295.8	1307.4	1312.5
17.5°	1257.0	1262.2	1277.7	1293.2	1298.3
20°	1228.7	1236.4	1255.8	1275.1	1282.9
22.5°	1200.3	1208.0	1231.2	1255.8	1264.8
25°	1168.0	1179.6	1204.1	1233.8	1244.1
27.5°	1133.2	1146.1	1177.0	1209.3	1222.2
30°	1094.4	1109.9	1146.1	1183.5	1197.7
32.5°	1053.1	1071.2	1111.2	1155.1	1173.2
35°	1010.5	1031.2	1076.4	1122.8	1143.5
37.5°	964.1	987.3	1040.2	1090.6	1112.5
40°	917.6	942.1	1000.2	1057.0	1078.9
42.5°	867.3	897.0	958.9	1020.9	1044.1
45°	818.2	849.2	916.3	982.1	1005.4
47.5°	766.6	800.2	875.0	940.9	965.4
50°	711.1	751.1	828.6	897.0	921.5
52.5°	659.5	700.8	783.4	847.9	868.6
55°	597.5	646.6	733.1	795.0	810.5
57.5°	543.3	592.4	680.1	735.6	755.0
60°	482.7	539.5	627.2	678.9	698.2
62.5°	420.7	482.7	570.4	618.2	635.0
65°	365.2	425.9	508.5	553.7	565.3
67.5°	311.0	373.0	451.7	493.0	505.9
70°	256.8	316.2	389.8	429.8	450.4
72.5°	207.8	264.6	326.5	375.6	394.9
75°	167.8	210.4	268.4	321.4	344.6
77.5°	129.1	162.6	218.1	268.4	281.4
80°	91.6	118.7	167.8	207.8	216.8
82.5°	58.1	81.3	117.4	143.3	154.9
85°	33.6	45.2	67.1	82.6	90.3
87.5°	14.2	19.4	23.2	27.1	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)