

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: P229600

Luminaire Tested: **22RLN-LD5-40-UNV-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229600  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36050)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-40-UNV-L935-CD1-U  
Description: METALUX 2X2 RLN LED TROFFER  
Light Source: (126)3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3482.0 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.31  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

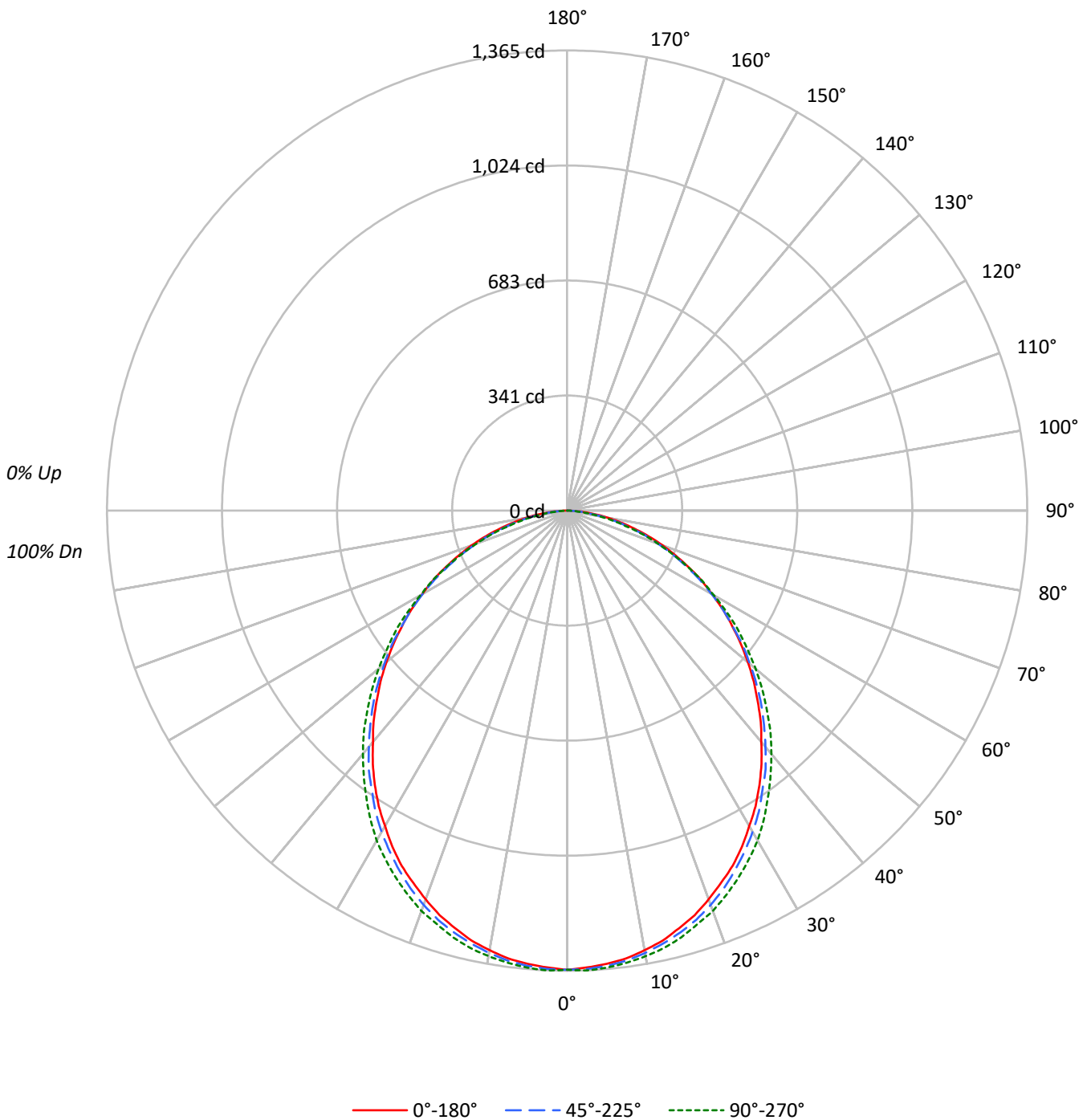
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4362	4362	4362
5°	4340	4357	4375
10°	4307	4333	4365
15°	4253	4296	4344
20°	4183	4243	4307
25°	4107	4162	4247
30°	3996	4070	4180
35°	3888	3949	4061
40°	3747	3825	3941
45°	3619	3689	3795
50°	3487	3525	3635
55°	3340	3347	3463
60°	3181	3167	3217
65°	3011	2944	2986
70°	2821	2677	2687
75°	2554	2350	2281
80°	2259	1975	1831
85°	1826	1378	1176



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.7	3.7
10°-20°	365.4	10.5
20°-30°	543.2	15.6
30°-40°	634.1	18.2
40°-50°	629.4	18.1
50°-60°	540.1	15.5
60°-70°	387.7	11.1
70°-80°	205.4	5.9
80°-90°	48.1	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°	1037.3	29.8
0°-40°	1671.4	48.0
0°-60°	2840.8	81.6
0°-90°	3482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3482.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1350	1352	1355	1360	1361	128
15°	1283	1287	1296	1306	1310	362
25°	1162	1166	1178	1195	1202	534
35°	994	998	1010	1032	1039	621
45°	799	802	815	829	838	617
55°	598	595	599	613	620	535
65°	397	387	388	392	394	394
75°	206	196	190	188	184	220
85°	50	43	38	32	32	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1362.1	1362.1	1362.1	1362.1	1362.1
2.5°	1356.5	1357.6	1361.0	1364.3	1365.4
5°	1349.9	1352.1	1355.4	1359.9	1361.0
7.5°	1340.0	1342.2	1346.6	1351.0	1353.2
10°	1324.5	1327.8	1332.3	1340.0	1342.2
12.5°	1306.9	1309.1	1315.7	1324.5	1329.0
15°	1282.6	1287.0	1295.8	1305.8	1310.2
17.5°	1258.3	1261.6	1272.7	1282.6	1285.9
20°	1227.4	1234.0	1245.1	1257.2	1263.8
22.5°	1194.3	1199.8	1213.1	1227.4	1234.0
25°	1162.3	1165.6	1177.7	1195.4	1202.0
27.5°	1123.6	1127.0	1140.2	1157.9	1166.7
30°	1080.6	1086.1	1100.5	1120.3	1130.3
32.5°	1039.8	1044.2	1058.5	1076.2	1086.1
35°	994.5	997.8	1010.0	1032.0	1038.7
37.5°	947.0	950.4	966.9	983.5	991.2
40°	896.3	900.7	915.0	931.6	942.6
42.5°	849.9	852.1	864.3	883.0	893.0
45°	799.1	802.4	814.6	828.9	837.8
47.5°	750.6	749.5	761.6	778.2	784.8
50°	699.8	697.6	707.5	724.1	729.6
52.5°	649.0	645.7	656.7	668.9	673.3
55°	598.2	594.9	599.4	612.6	620.3
57.5°	548.6	543.1	548.6	555.2	561.8
60°	496.7	487.9	494.5	502.2	502.2
62.5°	449.2	439.3	442.6	448.1	451.4
65°	397.4	387.4	388.5	391.8	394.0
67.5°	348.8	338.9	336.7	337.8	338.9
70°	301.3	290.3	285.9	283.7	287.0
72.5°	252.8	241.7	239.5	235.1	236.2
75°	206.4	196.5	189.9	187.6	184.3
77.5°	162.3	153.4	147.9	141.3	140.2
80°	122.5	111.5	107.1	102.7	99.3
82.5°	86.1	76.2	68.4	64.0	60.7
85°	49.7	43.0	37.5	32.0	32.0
87.5°	19.9	15.5	13.2	12.1	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)