

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: P229601

Luminaire Tested: **22RLN-LD5-44-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229601
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-LD5-44-UNV-L935-CD1-U
Description: METALUX 2X2 RLN LED TROFFER
Light Source: (126)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

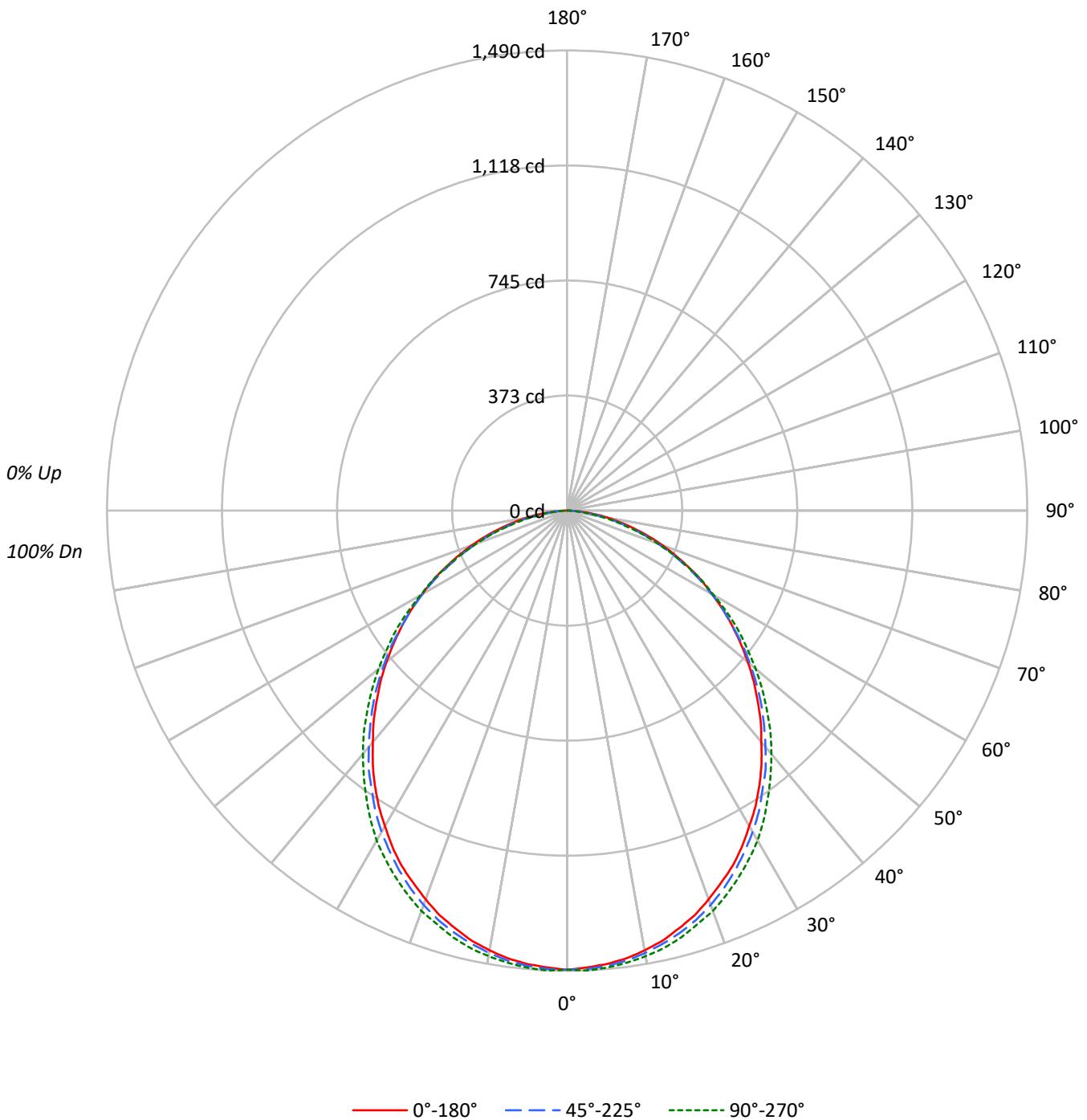
Lumens per Lamp: N/A
Luminaire Lumens: 3801.0 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 39.6
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°	4762	4762	4762
5°	4737	4757	4776
10°	4702	4729	4765
15°	4642	4690	4742
20°	4566	4632	4702
25°	4484	4543	4637
30°	4362	4442	4563
35°	4244	4310	4433
40°	4090	4176	4302
45°	3951	4027	4142
50°	3806	3848	3968
55°	3647	3653	3781
60°	3473	3458	3511
65°	3287	3214	3259
70°	3080	2922	2934
75°	2788	2564	2490
80°	2466	2156	1999
85°	1992	1507	1282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	3.7
10°-20°	398.9	10.5
20°-30°	592.9	15.6
30°-40°	692.2	18.2
40°-50°	687.0	18.1
50°-60°	589.6	15.5
60°-70°	423.2	11.1
70°-80°	224.2	5.9
80°-90°	52.5	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°	1132.3	29.8
0°-40°	1824.5	48.0
0°-60°	3101.1	81.6
0°-90°	3801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1487	1487	1487	1487	1487	
5°	1474	1476	1480	1484	1486	140
15°	1400	1405	1415	1425	1430	395
25°	1269	1272	1286	1305	1312	583
35°	1086	1089	1102	1127	1134	678
45°	872	876	889	905	914	674
55°	653	649	654	669	677	584
65°	434	423	424	428	430	431
75°	225	214	207	205	201	240
85°	54	47	41	35	35	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1486.8	1486.8	1486.8	1486.8	1486.8
2.5°	1480.8	1482.0	1485.6	1489.3	1490.5
5°	1473.6	1476.0	1479.6	1484.4	1485.6
7.5°	1462.7	1465.2	1470.0	1474.8	1477.2
10°	1445.9	1449.5	1454.3	1462.7	1465.2
12.5°	1426.6	1429.0	1436.2	1445.9	1450.7
15°	1400.1	1404.9	1414.6	1425.4	1430.2
17.5°	1373.6	1377.2	1389.3	1400.1	1403.7
20°	1339.8	1347.1	1359.1	1372.4	1379.6
22.5°	1303.7	1309.7	1324.2	1339.8	1347.1
25°	1268.8	1272.4	1285.6	1304.9	1312.1
27.5°	1226.6	1230.2	1244.7	1263.9	1273.6
30°	1179.6	1185.6	1201.3	1223.0	1233.8
32.5°	1135.0	1139.8	1155.5	1174.8	1185.6
35°	1085.6	1089.2	1102.5	1126.6	1133.8
37.5°	1033.8	1037.4	1055.5	1073.6	1082.0
40°	978.4	983.2	998.9	1016.9	1029.0
42.5°	927.8	930.2	943.4	963.9	974.8
45°	872.3	876.0	889.2	904.9	914.5
47.5°	819.3	818.1	831.4	849.5	856.7
50°	763.9	761.5	772.3	790.4	796.4
52.5°	708.5	704.9	716.9	730.2	735.0
55°	653.1	649.4	654.3	668.7	677.2
57.5°	598.8	592.8	598.8	606.1	613.3
60°	542.2	532.6	539.8	548.2	548.2
62.5°	490.4	479.6	483.2	489.2	492.8
65°	433.8	422.9	424.1	427.7	430.1
67.5°	380.7	369.9	367.5	368.7	369.9
70°	328.9	316.9	312.1	309.7	313.3
72.5°	275.9	263.9	261.5	256.6	257.8
75°	225.3	214.5	207.2	204.8	201.2
77.5°	177.1	167.5	161.5	154.2	153.0
80°	133.7	121.7	116.9	112.1	108.4
82.5°	94.0	83.1	74.7	69.9	66.3
85°	54.2	47.0	41.0	34.9	34.9
87.5°	21.7	16.9	14.5	13.3	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)