

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: P229606

Luminaire Tested: **22RLN-LD5-40-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229606
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-L940-CD1-U
Description: METALUX 2X2 RLN LED TROFFER
Light Source: (126)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3572.0 lumens
Efficiency: N/A
Efficacy: 100.3 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

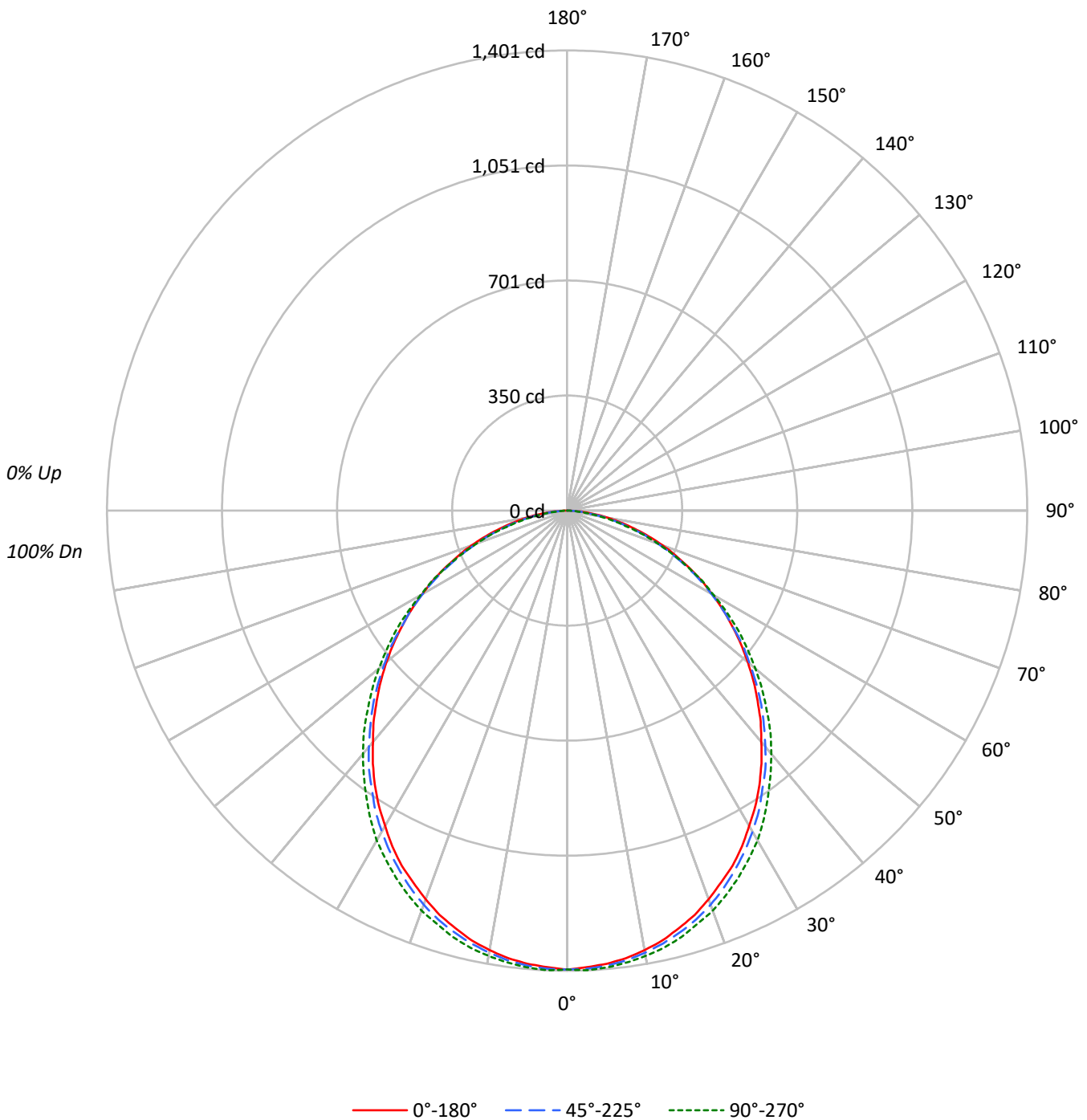
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4475	4475	4475
5°	4452	4470	4488
10°	4419	4445	4478
15°	4362	4407	4456
20°	4291	4353	4419
25°	4213	4269	4357
30°	4099	4175	4288
35°	3989	4051	4166
40°	3844	3924	4043
45°	3713	3785	3892
50°	3577	3616	3729
55°	3427	3433	3553
60°	3263	3249	3300
65°	3089	3021	3063
70°	2894	2746	2757
75°	2620	2410	2340
80°	2318	2025	1879
85°	1874	1415	1205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	3.7
10°-20°	374.9	10.5
20°-30°	557.2	15.6
30°-40°	650.5	18.2
40°-50°	645.6	18.1
50°-60°	554.0	15.5
60°-70°	397.7	11.1
70°-80°	210.7	5.9
80°-90°	49.4	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°	1064.1	29.8
0°-40°	1714.6	48.0
0°-60°	2914.3	81.6
0°-90°	3572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1397	1397	1397	1397	1397	
5°	1385	1387	1390	1395	1396	131
15°	1316	1320	1329	1340	1344	371
25°	1192	1196	1208	1226	1233	548
35°	1020	1024	1036	1059	1066	637
45°	820	823	836	850	859	633
55°	614	610	615	628	636	549
65°	408	397	399	402	404	405
75°	212	202	195	192	189	225
85°	51	44	38	33	33	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1397.3	1397.3	1397.3	1397.3	1397.3
2.5°	1391.6	1392.7	1396.1	1399.5	1400.7
5°	1384.8	1387.1	1390.5	1395.0	1396.1
7.5°	1374.6	1376.9	1381.4	1385.9	1388.2
10°	1358.8	1362.2	1366.7	1374.6	1376.9
12.5°	1340.7	1342.9	1349.7	1358.8	1363.3
15°	1315.7	1320.3	1329.3	1339.5	1344.1
17.5°	1290.8	1294.2	1305.6	1315.7	1319.1
20°	1259.1	1265.9	1277.2	1289.7	1296.5
22.5°	1225.2	1230.8	1244.4	1259.1	1265.9
25°	1192.3	1195.7	1208.2	1226.3	1233.1
27.5°	1152.7	1156.1	1169.7	1187.8	1196.9
30°	1108.5	1114.2	1128.9	1149.3	1159.5
32.5°	1066.6	1071.2	1085.9	1104.0	1114.2
35°	1020.2	1023.6	1036.1	1058.7	1065.5
37.5°	971.5	974.9	991.9	1008.9	1016.8
40°	919.4	924.0	938.7	955.7	967.0
42.5°	871.9	874.1	886.6	905.8	916.0
45°	819.8	823.2	835.6	850.4	859.4
47.5°	770.0	768.8	781.3	798.3	805.1
50°	717.9	715.6	725.8	742.8	748.5
52.5°	665.8	662.4	673.7	686.2	690.7
55°	613.7	610.3	614.8	628.4	636.4
57.5°	562.8	557.1	562.8	569.6	576.3
60°	509.5	500.5	507.3	515.2	515.2
62.5°	460.8	450.7	454.1	459.7	463.1
65°	407.6	397.4	398.6	402.0	404.2
67.5°	357.8	347.6	345.4	346.5	347.6
70°	309.1	297.8	293.3	291.0	294.4
72.5°	259.3	248.0	245.7	241.2	242.3
75°	211.7	201.6	194.8	192.5	189.1
77.5°	166.4	157.4	151.7	144.9	143.8
80°	125.7	114.4	109.8	105.3	101.9
82.5°	88.3	78.1	70.2	65.7	62.3
85°	51.0	44.2	38.5	32.8	32.8
87.5°	20.4	15.9	13.6	12.5	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)