

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: P229679

Luminaire Tested: **22RLN-LD5-44-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36063)
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-L940-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR
Light Source: (126)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3757.0 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.21 / 1.29
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

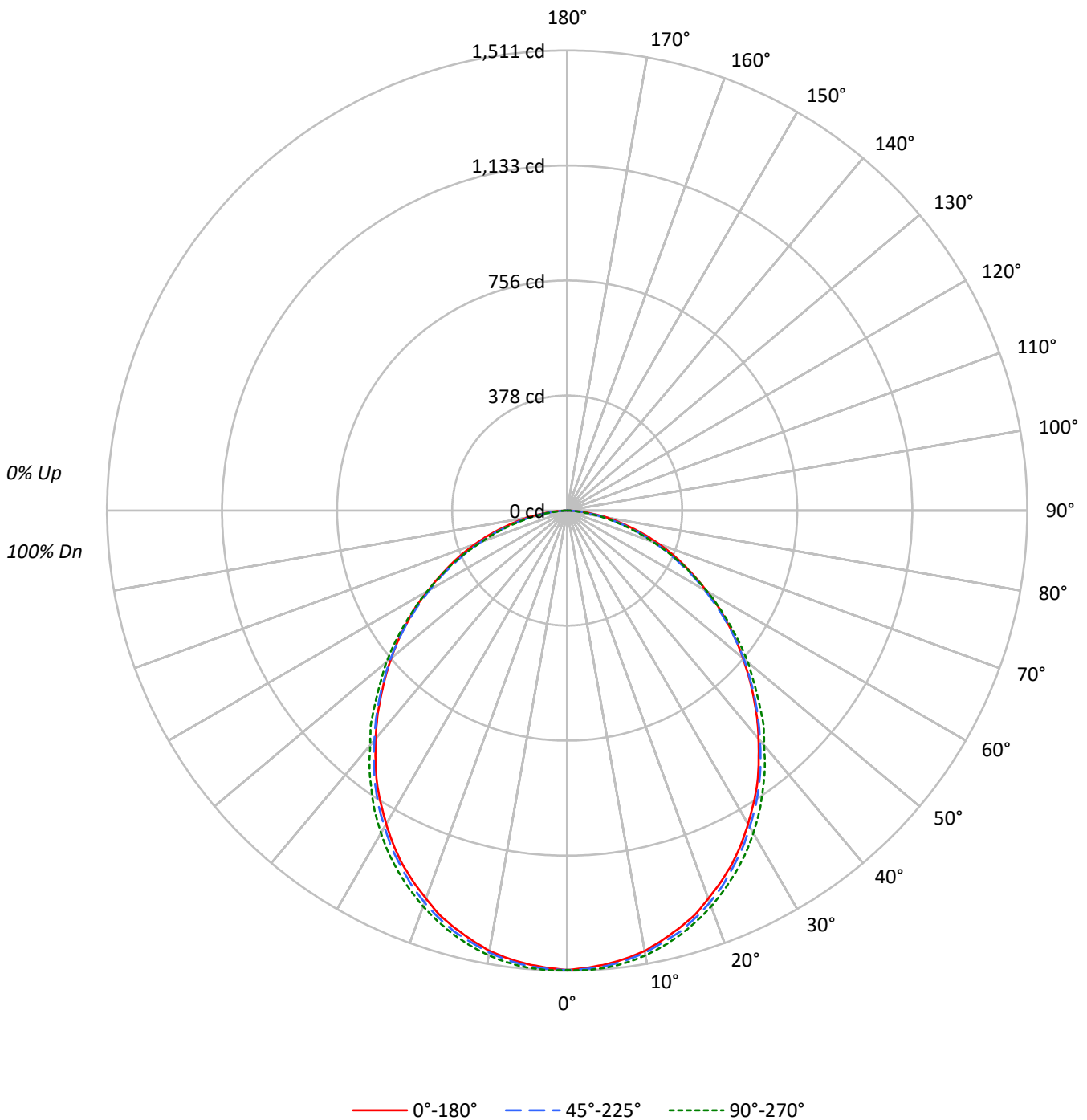
Input Watts (W): 39.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	58	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4831	4831	4831
5°	4807	4825	4844
10°	4774	4793	4824
15°	4707	4746	4778
20°	4621	4668	4714
25°	4526	4560	4628
30°	4393	4436	4522
35°	4260	4297	4380
40°	4086	4119	4207
45°	3920	3946	4033
50°	3754	3773	3859
55°	3581	3570	3635
60°	3390	3341	3402
65°	3205	3089	3162
70°	3003	2840	2786
75°	2725	2509	2414
80°	2458	2138	1996
85°	1918	1492	1279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.8
10°-20°	403.1	10.7
20°-30°	595.2	15.8
30°-40°	688.2	18.3
40°-50°	675.0	18.0
50°-60°	574.1	15.3
60°-70°	409.0	10.9
70°-80°	218.2	5.8
80°-90°	51.8	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°	1140.7	30.4
0°-40°	1828.9	48.7
0°-60°	3078.1	81.9
0°-90°	3757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3757.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1509	1509	1509	1509	1509	
5°	1495	1497	1501	1505	1507	142
15°	1420	1422	1431	1439	1441	400
25°	1281	1283	1290	1304	1310	589
35°	1090	1086	1099	1116	1120	680
45°	865	864	871	887	890	668
55°	641	636	639	647	651	575
65°	423	410	408	410	417	420
75°	220	209	203	199	195	236
85°	52	46	41	35	35	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1508.6	1508.6	1508.6	1508.6	1508.6
2.5°	1502.8	1504.8	1506.7	1510.6	1510.6
5°	1495.1	1497.0	1500.9	1504.8	1506.7
7.5°	1483.5	1483.5	1489.3	1493.2	1497.0
10°	1468.1	1470.0	1473.9	1479.7	1483.5
12.5°	1444.9	1448.8	1452.6	1460.3	1464.2
15°	1419.8	1421.7	1431.4	1439.1	1441.0
17.5°	1392.7	1392.7	1402.4	1410.1	1414.0
20°	1356.0	1359.9	1369.6	1379.2	1383.1
22.5°	1319.3	1323.2	1332.9	1342.5	1348.3
25°	1280.7	1282.6	1290.4	1303.9	1309.7
27.5°	1236.3	1240.1	1247.9	1261.4	1269.1
30°	1188.0	1191.8	1199.6	1215.0	1222.7
32.5°	1139.7	1143.5	1151.3	1166.7	1174.5
35°	1089.5	1085.6	1099.1	1116.5	1120.4
37.5°	1033.4	1035.4	1043.1	1058.6	1066.3
40°	977.4	977.4	985.2	1002.5	1006.4
42.5°	923.3	921.4	929.1	944.6	954.2
45°	865.4	863.5	871.2	886.6	890.5
47.5°	809.4	805.5	813.2	826.8	830.6
50°	753.4	749.5	757.2	768.8	774.6
52.5°	699.3	691.5	697.3	707.0	712.8
55°	641.3	635.5	639.4	647.1	651.0
57.5°	589.2	577.6	579.5	587.2	591.1
60°	529.3	519.6	521.6	529.3	531.2
62.5°	475.2	465.5	465.5	467.5	471.3
65°	423.0	409.5	407.6	409.5	417.2
67.5°	372.8	359.3	355.4	355.4	357.4
70°	320.7	307.1	303.3	301.3	297.5
72.5°	272.4	255.0	253.0	247.3	249.2
75°	220.2	208.6	202.8	199.0	195.1
77.5°	173.9	164.2	156.5	150.7	150.7
80°	133.3	119.8	115.9	108.2	108.2
82.5°	88.9	83.1	75.3	69.5	67.6
85°	52.2	46.4	40.6	34.8	34.8
87.5°	19.3	15.5	13.5	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)