

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: P229476

Luminaire Tested: **14RLN-LD5-40-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36058)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-40-UNV-L935-CD1-U
Description: METALUX 1X4 RLN LED TROFFER
Light Source: (112)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3504.0 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.31
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

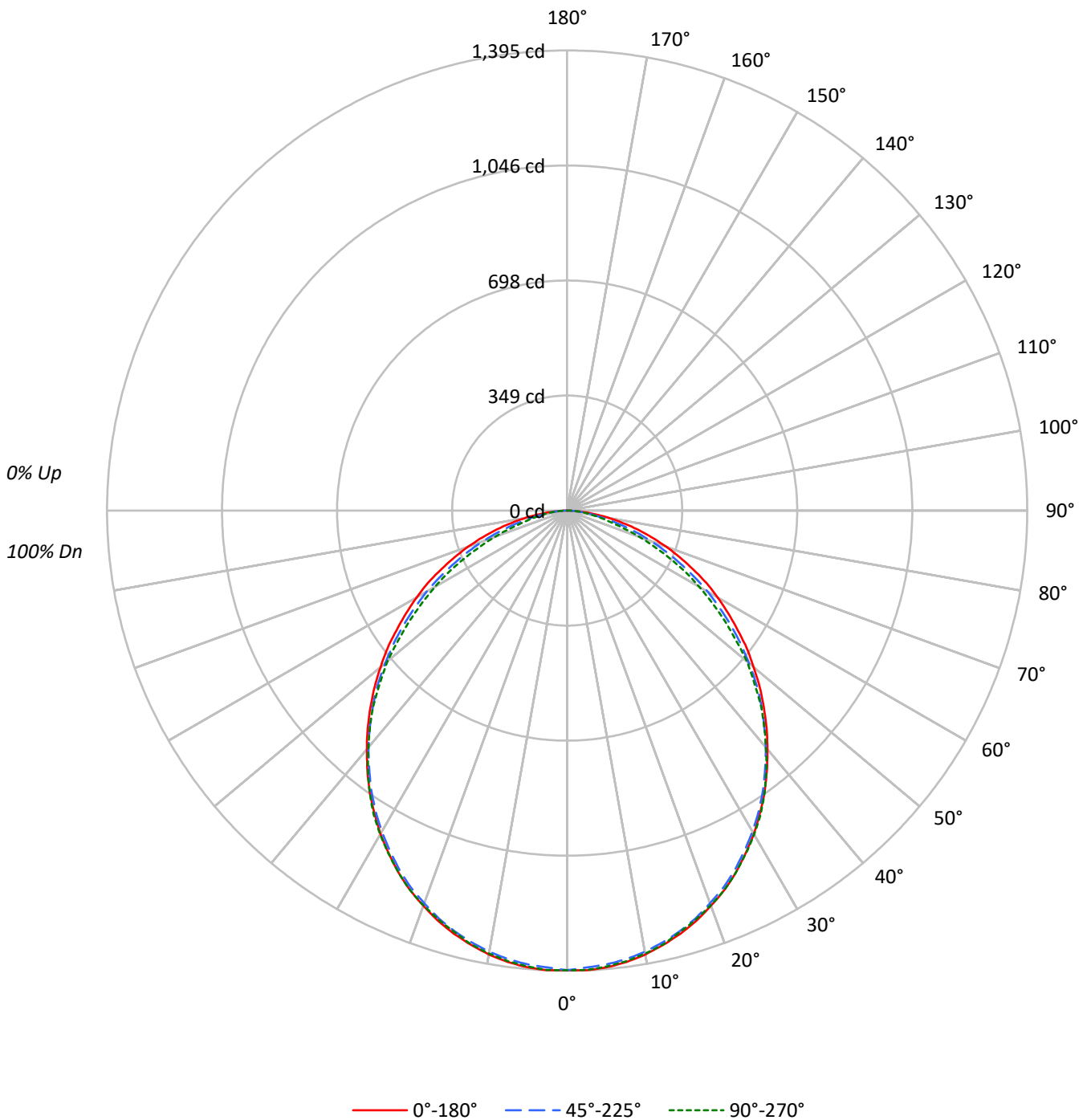
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	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°	4694	4694	4694
5°	4701	4671	4692
10°	4675	4646	4666
15°	4632	4604	4613
20°	4572	4541	4566
25°	4501	4469	4501
30°	4405	4372	4412
35°	4292	4257	4292
40°	4155	4121	4124
45°	4017	3963	3951
50°	3868	3769	3728
55°	3708	3556	3424
60°	3551	3319	3116
65°	3357	3000	2746
70°	3130	2664	2307
75°	2869	2230	1782
80°	2472	1671	1537
85°	1999	1400	1430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	3.8
10°-20°	373.4	10.7
20°-30°	555.8	15.9
30°-40°	649.6	18.5
40°-50°	642.0	18.3
50°-60°	542.1	15.5
60°-70°	375.5	10.7
70°-80°	187.4	5.3
80°-90°	46.6	1.3
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°	1060.7	30.3
0°-40°	1710.4	48.8
0°-60°	2894.5	82.6
0°-90°	3504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3504.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1390	1387	1381	1388	1387	132
15°	1328	1326	1320	1326	1322	374
25°	1211	1207	1202	1210	1211	557
35°	1044	1038	1035	1043	1044	652
45°	843	834	832	830	829	651
55°	631	620	605	592	583	565
65°	421	401	376	356	344	418
75°	220	201	171	148	137	233
85°	52	40	36	36	37	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1393.1	1393.1	1393.1	1393.1	1393.1
2.5°	1394.8	1392.2	1386.2	1393.1	1394.0
5°	1389.7	1387.1	1381.0	1387.9	1387.1
7.5°	1380.2	1376.7	1371.6	1377.6	1377.6
10°	1366.4	1363.8	1357.8	1364.7	1363.8
12.5°	1348.3	1346.6	1340.6	1347.5	1346.6
15°	1327.7	1325.9	1319.9	1325.9	1322.5
17.5°	1303.6	1302.7	1295.8	1300.1	1299.3
20°	1275.1	1273.4	1266.5	1275.1	1273.4
22.5°	1245.0	1241.6	1237.3	1244.2	1245.0
25°	1210.6	1207.1	1202.0	1209.7	1210.6
27.5°	1171.0	1168.4	1163.2	1174.4	1172.7
30°	1132.2	1129.6	1123.6	1133.1	1133.9
32.5°	1087.4	1084.9	1080.6	1090.0	1091.8
35°	1043.5	1038.4	1034.9	1042.7	1043.5
37.5°	994.5	989.3	985.8	993.6	991.9
40°	944.5	938.5	936.8	942.8	937.6
42.5°	895.4	887.7	884.3	887.7	884.3
45°	842.9	833.5	831.7	830.0	829.1
47.5°	792.1	781.8	777.5	771.5	767.2
50°	737.9	726.7	718.9	712.9	711.2
52.5°	687.1	674.2	663.0	657.8	644.0
55°	631.1	619.9	605.3	592.4	582.9
57.5°	578.6	564.0	546.7	533.0	520.9
60°	526.9	508.0	492.5	471.0	462.4
62.5°	476.1	454.6	433.1	409.8	405.5
65°	421.0	401.2	376.3	356.5	344.4
67.5°	368.5	347.8	323.7	296.2	285.0
70°	317.7	295.3	270.4	243.7	234.2
72.5°	268.6	246.2	220.4	192.0	180.8
75°	220.4	200.6	171.3	148.1	136.9
77.5°	171.3	155.0	126.6	107.6	105.9
80°	127.4	112.8	86.1	81.8	79.2
82.5°	87.8	74.0	61.1	58.5	56.8
85°	51.7	39.6	36.2	36.2	37.0
87.5°	19.8	17.2	17.2	17.2	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)