

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: P229747

Luminaire Tested: **24RLN-LD5-36-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36038)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-36-UNV-L930-CD1-U
Description: METALUX 2X4 RLN LED TROFFER
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3030.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

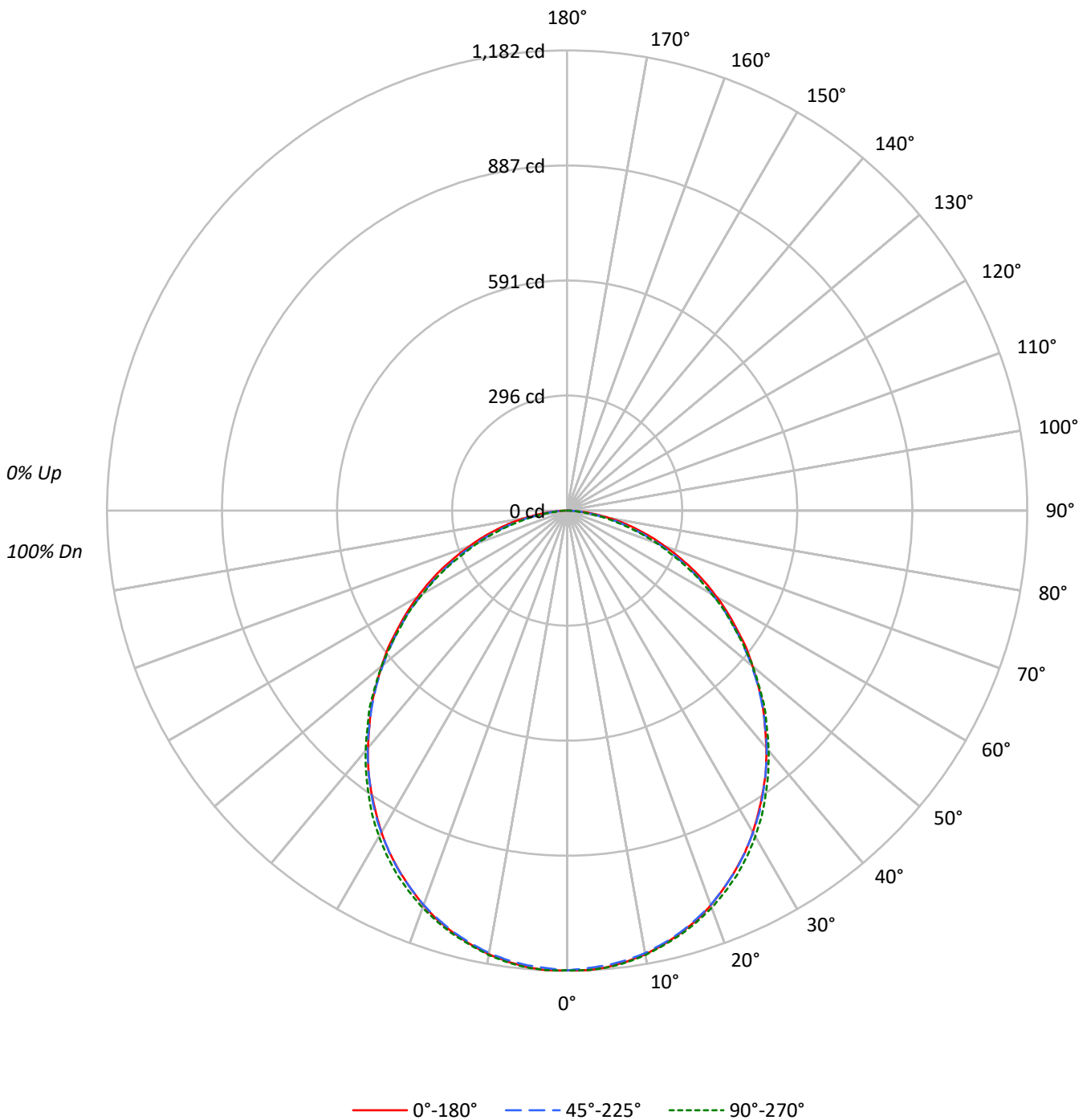
Input Watts (W): 26.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	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	60
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	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	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	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1809	1809	1809
5°	1810	1803	1811
10°	1800	1795	1803
15°	1782	1779	1788
20°	1759	1757	1770
25°	1725	1727	1745
30°	1687	1689	1709
35°	1642	1643	1663
40°	1591	1595	1610
45°	1540	1536	1555
50°	1481	1472	1483
55°	1420	1402	1397
60°	1361	1320	1314
65°	1285	1230	1213
70°	1191	1118	1097
75°	1094	987	936
80°	959	824	748
85°	787	569	452



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	3.7
10°-20°	317.0	10.5
20°-30°	471.6	15.6
30°-40°	551.1	18.2
40°-50°	547.8	18.1
50°-60°	470.7	15.5
60°-70°	338.0	11.2
70°-80°	180.0	5.9
80°-90°	42.2	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°	900.2	29.7
0°-40°	1451.3	47.9
0°-60°	2469.8	81.5
0°-90°	3030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3030.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1177	1175	1172	1176	1178	112
15°	1124	1124	1122	1126	1128	317
25°	1021	1021	1022	1029	1032	470
35°	878	876	879	888	889	549
45°	711	705	709	713	718	547
55°	532	525	525	525	523	477
65°	355	344	339	336	335	351
75°	185	174	167	162	158	197
85°	45	38	32	27	26	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1181.0	1181.0	1181.0	1181.0	1181.0
2.5°	1181.9	1180.0	1176.2	1181.0	1181.9
5°	1177.2	1175.3	1172.4	1176.2	1178.1
7.5°	1168.6	1166.7	1164.8	1168.6	1170.5
10°	1157.2	1156.2	1154.3	1159.1	1159.1
12.5°	1141.9	1141.0	1139.1	1143.8	1143.8
15°	1123.8	1123.8	1121.9	1125.7	1127.6
17.5°	1103.8	1102.8	1100.9	1105.7	1107.6
20°	1079.0	1079.0	1078.1	1083.8	1085.7
22.5°	1050.4	1050.4	1050.4	1058.0	1059.9
25°	1020.9	1020.9	1021.8	1029.4	1032.3
27.5°	989.4	988.5	989.4	998.0	1000.8
30°	954.1	952.2	955.1	963.7	966.5
32.5°	916.0	914.1	918.9	926.5	930.3
35°	877.9	876.0	878.8	888.4	889.3
37.5°	838.8	834.0	838.8	847.4	848.3
40°	795.9	792.1	797.8	801.6	805.4
42.5°	752.1	750.2	753.0	759.7	759.7
45°	711.1	705.4	709.2	713.0	717.7
47.5°	665.3	662.5	664.4	667.2	669.1
50°	621.5	616.7	617.7	620.5	622.4
52.5°	580.5	571.0	571.0	572.9	572.9
55°	531.9	525.2	525.2	525.2	523.3
57.5°	489.0	480.4	479.5	479.5	479.5
60°	444.2	433.7	430.8	430.8	428.9
62.5°	399.4	389.9	386.0	382.2	382.2
65°	354.6	344.1	339.3	335.5	334.6
67.5°	308.8	301.2	295.5	290.7	286.0
70°	265.9	257.4	249.7	245.0	245.0
72.5°	225.9	216.4	208.7	203.0	200.2
75°	184.9	174.4	166.8	162.0	158.2
77.5°	148.7	137.3	129.6	123.0	119.1
80°	108.7	100.1	93.4	86.7	84.8
82.5°	75.3	68.6	61.0	56.2	54.3
85°	44.8	38.1	32.4	26.7	25.7
87.5°	18.1	13.3	10.5	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)