

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: P229422

Luminaire Tested: **24ALNG-LD5-36-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36086)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24ALNG-LD5-36-UNV-L830-CD1-SVPD1-U  
Description: METALUX 2X4 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR  
Light Source: (252)3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3368.0 lumens  
Efficiency: N/A  
Efficacy: 131.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

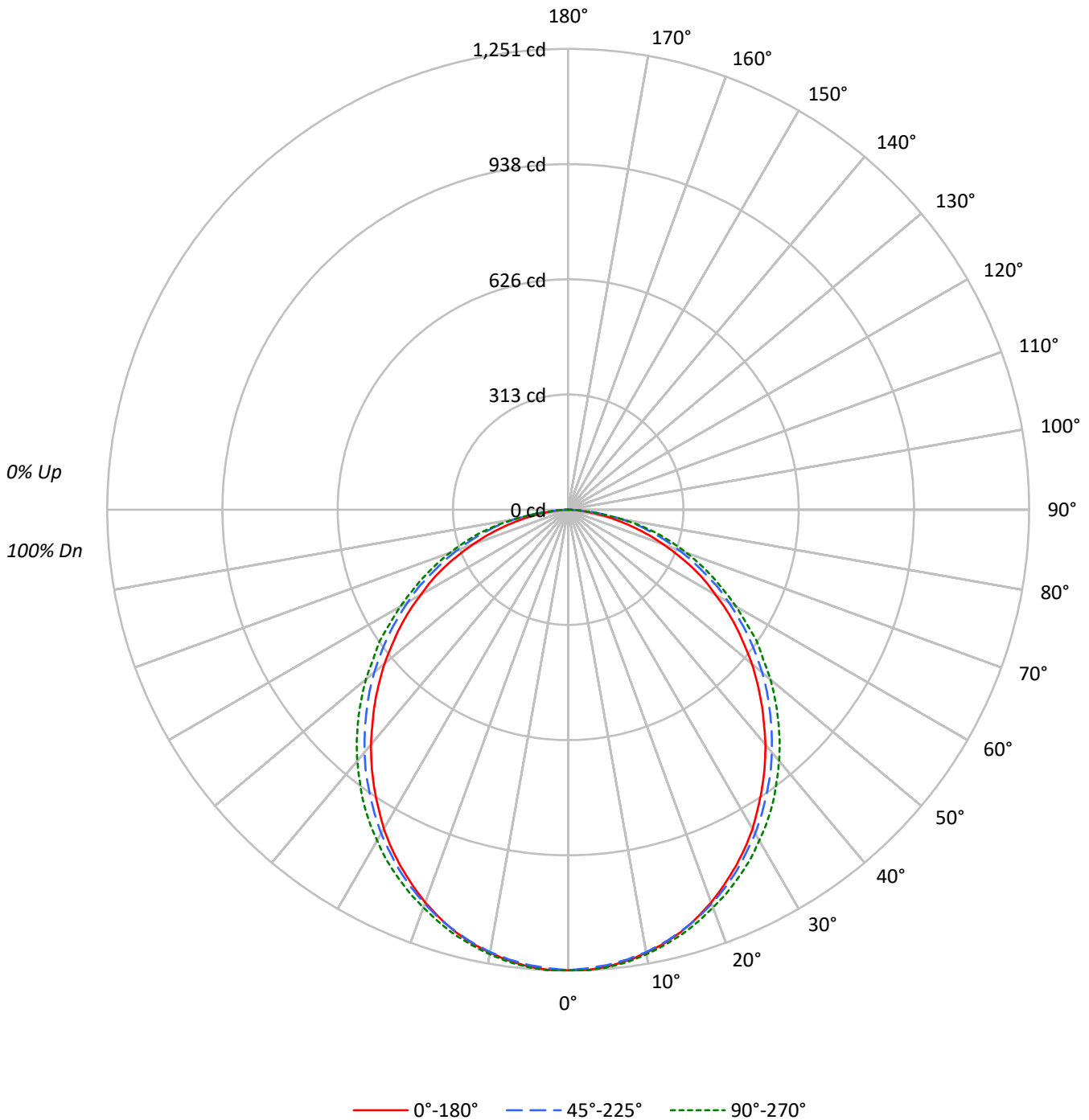
Input Watts (W): 25.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1915	1915	1915
5°	1914	1907	1917
10°	1899	1896	1906
15°	1880	1878	1892
20°	1849	1855	1873
25°	1811	1828	1856
30°	1769	1795	1834
35°	1717	1756	1812
40°	1665	1718	1780
45°	1606	1676	1746
50°	1550	1637	1706
55°	1488	1589	1669
60°	1415	1541	1612
65°	1348	1481	1569
70°	1233	1427	1526
75°	1078	1380	1485
80°	901	1293	1282
85°	624	917	819



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.0	3.5
10°-20°	334.8	9.9
20°-30°	499.1	14.8
30°-40°	589.2	17.5
40°-50°	597.3	17.7
50°-60°	529.7	15.7
60°-70°	401.8	11.9
70°-80°	238.0	7.1
80°-90°	60.0	1.8
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°	952.0	28.3
0°-40°	1541.2	45.8
0°-60°	2668.2	79.2
0°-90°	3368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3368.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1250	1250	1250	1250	1250	
5°	1245	1244	1240	1245	1247	118
15°	1186	1186	1185	1190	1194	334
25°	1071	1074	1081	1095	1098	493
35°	918	926	939	960	969	574
45°	742	752	774	797	806	572
55°	557	568	595	617	625	498
65°	372	383	409	426	433	366
75°	182	206	233	245	251	195
85°	36	53	52	48	47	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1250.1	1250.1	1250.1	1250.1	1250.1
2.5°	1250.1	1249.0	1245.7	1250.1	1251.2
5°	1244.6	1243.5	1240.1	1244.6	1246.8
7.5°	1234.6	1234.6	1231.3	1235.7	1237.9
10°	1221.3	1221.3	1219.0	1223.5	1225.7
12.5°	1205.7	1205.7	1203.5	1209.1	1210.2
15°	1185.7	1185.7	1184.6	1190.2	1193.5
17.5°	1161.3	1161.3	1163.5	1171.3	1172.4
20°	1134.7	1135.8	1138.0	1148.0	1149.1
22.5°	1103.6	1106.9	1111.3	1122.5	1125.8
25°	1071.4	1073.6	1081.4	1094.7	1098.0
27.5°	1037.0	1040.3	1048.1	1064.7	1070.3
30°	1000.3	1002.5	1014.8	1031.4	1037.0
32.5°	959.2	964.8	978.1	998.1	1004.8
35°	918.2	925.9	939.3	960.4	969.2
37.5°	876.0	882.6	901.5	922.6	929.3
40°	832.7	839.3	859.3	882.6	890.4
42.5°	786.0	796.0	817.1	840.5	849.3
45°	741.6	751.6	773.8	797.2	806.0
47.5°	696.1	706.1	731.6	751.6	761.6
50°	650.6	662.8	687.2	708.3	716.1
52.5°	602.9	615.1	640.6	661.7	667.3
55°	557.3	568.4	595.1	617.3	625.1
57.5°	510.7	522.9	548.5	570.7	572.9
60°	461.9	475.2	502.9	520.7	526.3
62.5°	418.6	429.7	459.6	474.1	477.4
65°	371.9	383.0	408.6	426.3	433.0
67.5°	322.0	337.5	364.2	381.9	386.4
70°	275.3	294.2	318.6	337.5	340.8
72.5°	228.7	248.7	276.4	292.0	295.3
75°	182.1	206.5	233.2	245.4	250.9
77.5°	141.0	164.3	191.0	202.1	201.0
80°	102.1	125.5	146.6	146.6	145.4
82.5°	65.5	88.8	99.9	96.6	94.4
85°	35.5	53.3	52.2	47.7	46.6
87.5°	14.4	17.8	13.3	10.0	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)