

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: P229874

Luminaire Tested: **24RLN-LD5-74-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229874  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36062)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24RLN-LD5-74-UNV-L930-CD1-SVPD1-U  
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR  
Light Source: (252)3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6094.0 lumens  
Efficiency: N/A  
Efficacy: 98.9 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

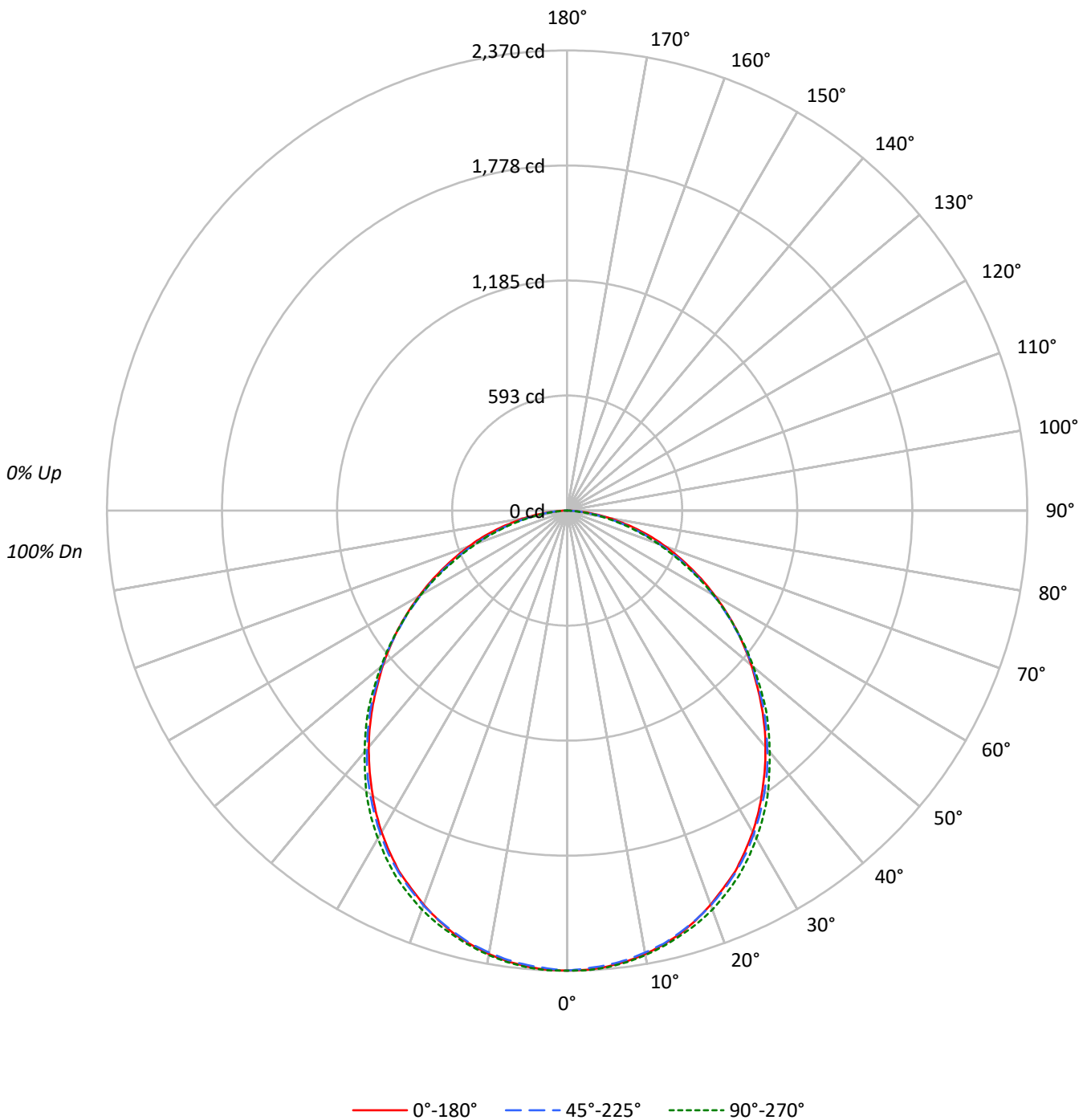
Input Watts (W): 61.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	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	31
9	58	44	36	31	56	44	36	31	43	35	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°	3629	3629	3629
5°	3625	3613	3631
10°	3607	3595	3616
15°	3576	3566	3591
20°	3521	3527	3565
25°	3463	3473	3519
30°	3381	3401	3449
35°	3280	3313	3364
40°	3178	3205	3244
45°	3064	3094	3136
50°	2950	2964	2987
55°	2835	2819	2830
60°	2699	2657	2669
65°	2546	2490	2447
70°	2407	2277	2225
75°	2216	2021	1952
80°	1951	1712	1609
85°	1534	1193	887



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.7	3.7
10°-20°	635.9	10.4
20°-30°	947.8	15.6
30°-40°	1108.0	18.2
40°-50°	1100.3	18.1
50°-60°	944.8	15.5
60°-70°	680.6	11.2
70°-80°	366.5	6.0
80°-90°	86.4	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°	1807.3	29.7
0°-40°	2915.3	47.8
0°-60°	4960.5	81.4
0°-90°	6094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6094.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2370	2370	2370	2370	2370	
5°	2358	2356	2350	2358	2362	224
15°	2255	2249	2249	2263	2265	635
25°	2049	2042	2055	2076	2082	942
35°	1754	1752	1772	1791	1799	1097
45°	1415	1411	1428	1440	1448	1091
55°	1062	1052	1056	1062	1060	948
65°	702	691	687	681	675	698
75°	374	351	342	332	330	397
85°	87	80	68	54	50	105
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2369.5	2369.5	2369.5	2369.5	2369.5
2.5°	2367.5	2365.6	2359.8	2367.5	2369.5
5°	2357.8	2355.9	2350.1	2357.8	2361.7
7.5°	2342.3	2338.4	2334.5	2342.3	2346.2
10°	2319.0	2315.1	2311.2	2321.0	2324.8
12.5°	2289.9	2286.0	2286.0	2293.8	2297.7
15°	2255.0	2249.1	2249.1	2262.7	2264.7
17.5°	2210.3	2206.5	2208.4	2223.9	2229.7
20°	2159.9	2157.9	2163.8	2181.2	2187.0
22.5°	2103.6	2101.7	2111.4	2132.7	2136.6
25°	2049.3	2041.5	2055.1	2076.4	2082.3
27.5°	1981.3	1975.5	1993.0	2012.4	2018.2
30°	1911.5	1905.7	1923.1	1944.5	1950.3
32.5°	1835.8	1831.9	1849.4	1870.7	1876.6
35°	1754.3	1752.4	1771.8	1791.2	1798.9
37.5°	1672.8	1670.9	1692.2	1707.7	1709.7
40°	1589.3	1585.5	1602.9	1620.4	1622.3
42.5°	1504.0	1498.1	1517.5	1531.1	1537.0
45°	1414.7	1410.8	1428.3	1439.9	1447.7
47.5°	1323.5	1323.5	1333.2	1346.8	1348.7
50°	1238.1	1232.3	1243.9	1251.7	1253.6
52.5°	1148.8	1143.0	1152.7	1154.7	1158.5
55°	1061.5	1051.8	1055.7	1061.5	1059.6
57.5°	970.3	954.8	962.5	962.5	966.4
60°	881.0	867.4	867.4	867.4	871.3
62.5°	791.8	778.2	778.2	776.2	774.3
65°	702.5	690.9	687.0	681.1	675.3
67.5°	617.1	603.5	595.8	588.0	582.2
70°	537.5	514.3	508.4	496.8	496.8
72.5°	458.0	434.7	423.0	415.3	413.3
75°	374.5	351.2	341.5	331.8	329.9
77.5°	293.0	277.5	262.0	254.2	250.3
80°	221.2	207.6	194.1	180.5	182.4
82.5°	151.4	137.8	128.1	116.4	112.6
85°	87.3	79.6	67.9	54.3	50.5
87.5°	36.9	27.2	19.4	19.4	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)