

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: P229933

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229933  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-7)  
Test Lab: INNOVATION CENTER-G3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24RLN-LD5-67-RDP-UNV-L930-CD1-SVPD1-U  
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS  
Light Source: (252)3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4592.0 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.38  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

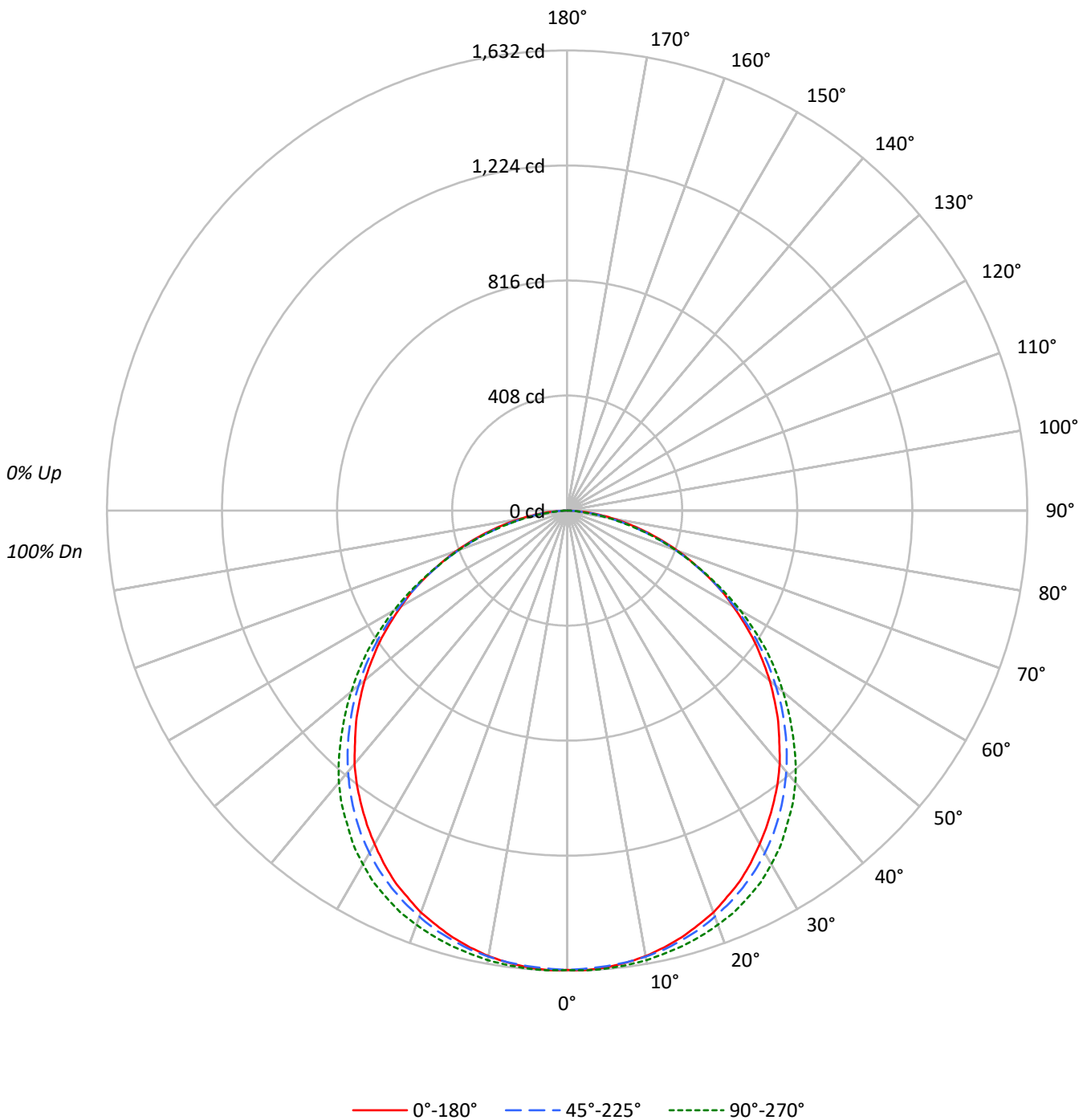
Input Watts (W): 53.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	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	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25

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

	0°	45°	90°
0°	2496	2496	2496
5°	2499	2493	2507
10°	2495	2498	2518
15°	2485	2500	2532
20°	2472	2498	2548
25°	2451	2493	2561
30°	2416	2480	2562
35°	2381	2456	2542
40°	2345	2418	2519
45°	2293	2366	2455
50°	2235	2299	2381
55°	2168	2221	2301
60°	2085	2112	2176
65°	1988	1988	2009
70°	1869	1835	1831
75°	1705	1603	1598
80°	1486	1335	1275
85°	1177	926	724



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.6	3.4
10°-20°	446.0	9.7
20°-30°	681.4	14.8
30°-40°	822.0	17.9
40°-50°	842.5	18.3
50°-60°	742.3	16.2
60°-70°	543.3	11.8
70°-80°	292.0	6.4
80°-90°	68.0	1.5
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°	1281.9	27.9
0°-40°	2103.9	45.8
0°-60°	3688.8	80.3
0°-90°	4592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4592.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1629	1629	1629	1629	1629	
5°	1626	1624	1622	1626	1630	154
15°	1567	1569	1577	1589	1597	442
25°	1450	1454	1475	1504	1515	667
35°	1273	1280	1313	1350	1359	797
45°	1059	1058	1092	1124	1133	816
55°	812	807	832	851	862	724
65°	548	539	548	555	554	544
75°	288	275	271	271	270	306
85°	67	59	53	43	41	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1629.3	1629.3	1629.3	1629.3	1629.3
2.5°	1631.2	1628.4	1625.5	1628.4	1632.2
5°	1625.5	1623.6	1621.7	1626.4	1630.3
7.5°	1616.9	1615.0	1615.9	1622.6	1625.5
10°	1604.4	1604.4	1606.3	1614.0	1618.8
12.5°	1587.2	1588.2	1593.9	1603.5	1608.3
15°	1567.1	1569.0	1576.7	1589.1	1596.8
17.5°	1542.2	1547.0	1557.5	1572.8	1581.5
20°	1516.4	1519.2	1532.6	1554.6	1563.3
22.5°	1482.9	1488.6	1505.8	1531.7	1543.2
25°	1450.3	1454.1	1475.2	1503.9	1515.4
27.5°	1409.1	1414.9	1440.7	1474.2	1486.7
30°	1366.1	1372.8	1402.4	1435.0	1448.4
32.5°	1321.1	1329.7	1360.3	1394.8	1409.1
35°	1273.2	1279.9	1313.4	1349.8	1359.4
37.5°	1225.3	1227.3	1262.7	1298.1	1313.4
40°	1172.7	1174.6	1209.1	1242.6	1259.8
42.5°	1113.3	1119.1	1152.6	1185.1	1198.5
45°	1058.8	1057.8	1092.3	1123.9	1133.4
47.5°	997.5	999.4	1031.0	1061.6	1067.4
50°	938.1	937.2	965.0	991.8	999.4
52.5°	873.1	872.1	899.9	921.9	931.4
55°	811.8	807.0	831.9	851.0	861.6
57.5°	745.7	739.0	761.1	780.2	785.0
60°	680.6	673.0	689.3	703.6	710.3
62.5°	618.4	608.8	619.4	631.8	632.8
65°	548.5	539.0	548.5	555.2	554.3
67.5°	482.5	471.9	476.7	479.6	478.6
70°	417.4	403.0	409.7	407.8	408.8
72.5°	352.3	340.8	339.8	337.0	339.8
75°	288.1	274.7	270.9	270.9	270.0
77.5°	226.9	213.5	209.6	207.7	204.9
80°	168.5	158.0	151.3	150.3	144.6
82.5°	118.7	105.3	103.4	94.8	89.0
85°	67.0	59.4	52.7	43.1	41.2
87.5°	24.9	22.0	17.2	16.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)