

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: P229882

Luminaire Tested: **24RLN-LD5-60-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229882  
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-LD5-60-UNV-L935-CD1-SVPD1-U  
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR  
Light Source: (252)3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5102.0 lumens  
Efficiency: N/A  
Efficacy: 107.0 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

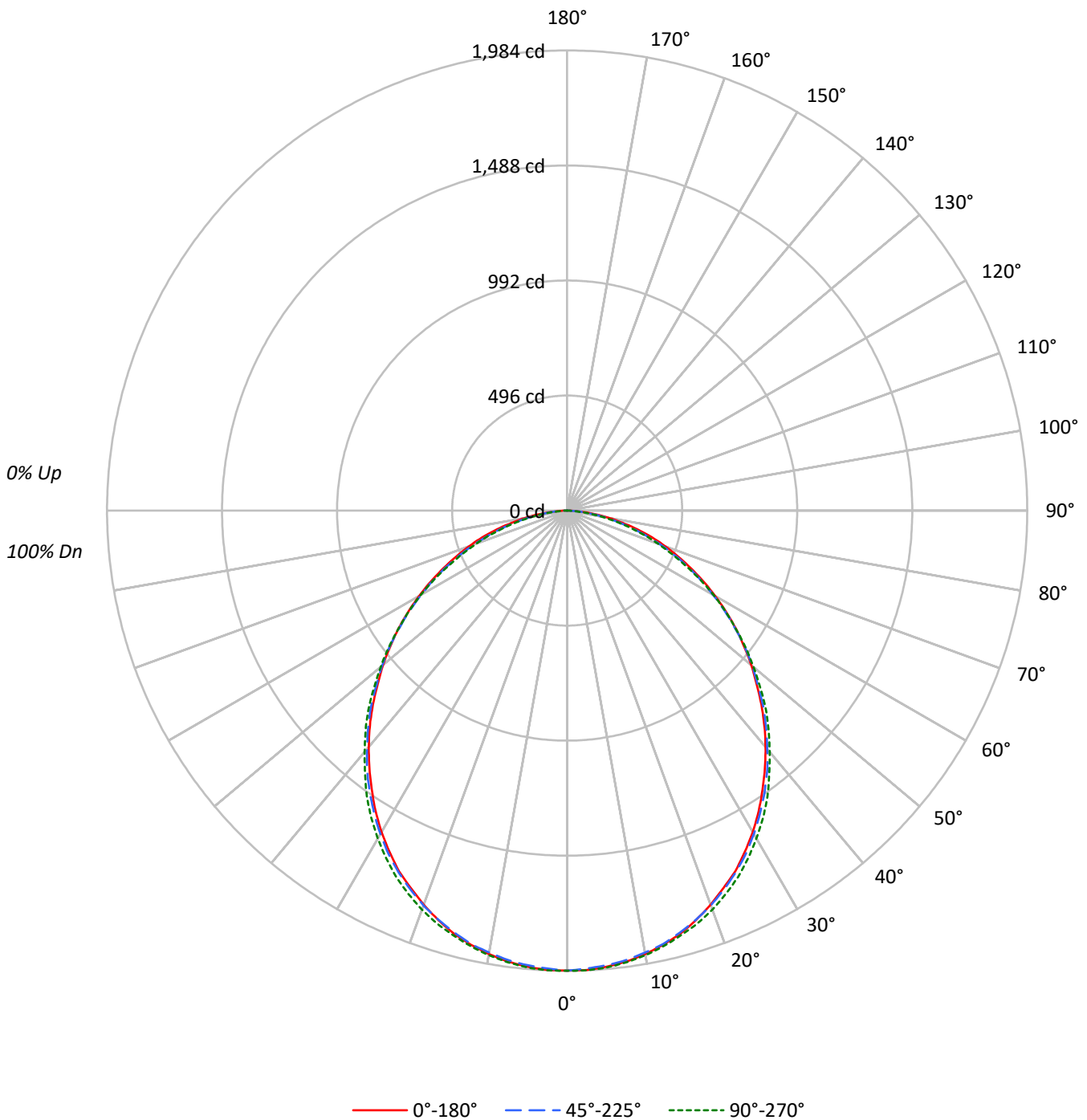
Input Watts (W): 47.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3039	3039	3039
5°	3035	3025	3040
10°	3020	3009	3027
15°	2994	2986	3006
20°	2947	2953	2984
25°	2900	2908	2946
30°	2830	2848	2888
35°	2746	2774	2816
40°	2660	2683	2716
45°	2566	2590	2625
50°	2470	2481	2501
55°	2373	2360	2369
60°	2260	2225	2235
65°	2131	2084	2049
70°	2015	1906	1863
75°	1856	1692	1635
80°	1634	1433	1347
85°	1285	1000	742



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.3	3.7
10°-20°	532.4	10.4
20°-30°	793.5	15.6
30°-40°	927.7	18.2
40°-50°	921.2	18.1
50°-60°	791.0	15.5
60°-70°	569.8	11.2
70°-80°	306.8	6.0
80°-90°	72.3	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°	1513.1	29.7
0°-40°	2440.7	47.8
0°-60°	4153.0	81.4
0°-90°	5102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5102.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1984	1984	1984	1984	1984	
5°	1974	1972	1968	1974	1977	187
15°	1888	1883	1883	1894	1896	532
25°	1716	1709	1721	1738	1743	789
35°	1469	1467	1483	1500	1506	919
45°	1184	1181	1196	1206	1212	914
55°	889	881	884	889	887	794
65°	588	578	575	570	565	584
75°	314	294	286	278	276	332
85°	73	67	57	46	42	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1983.8	1983.8	1983.8	1983.8	1983.8
2.5°	1982.1	1980.5	1975.6	1982.1	1983.8
5°	1974.0	1972.4	1967.5	1974.0	1977.3
7.5°	1961.0	1957.8	1954.5	1961.0	1964.3
10°	1941.5	1938.3	1935.0	1943.1	1946.4
12.5°	1917.1	1913.9	1913.9	1920.4	1923.6
15°	1887.9	1883.0	1883.0	1894.4	1896.0
17.5°	1850.5	1847.3	1848.9	1861.9	1866.8
20°	1808.3	1806.7	1811.5	1826.2	1831.0
22.5°	1761.2	1759.5	1767.7	1785.5	1788.8
25°	1715.7	1709.2	1720.6	1738.4	1743.3
27.5°	1658.8	1653.9	1668.6	1684.8	1689.7
30°	1600.3	1595.5	1610.1	1627.9	1632.8
32.5°	1537.0	1533.7	1548.3	1566.2	1571.1
35°	1468.7	1467.1	1483.3	1499.6	1506.1
37.5°	1400.5	1398.9	1416.7	1429.7	1431.4
40°	1330.6	1327.4	1342.0	1356.6	1358.2
42.5°	1259.1	1254.3	1270.5	1281.9	1286.8
45°	1184.4	1181.2	1195.8	1205.5	1212.0
47.5°	1108.0	1108.0	1116.2	1127.5	1129.2
50°	1036.6	1031.7	1041.4	1047.9	1049.6
52.5°	961.8	956.9	965.1	966.7	969.9
55°	888.7	880.6	883.8	888.7	887.1
57.5°	812.3	799.4	805.9	805.9	809.1
60°	737.6	726.2	726.2	726.2	729.5
62.5°	662.9	651.5	651.5	649.9	648.3
65°	588.1	578.4	575.1	570.3	565.4
67.5°	516.7	505.3	498.8	492.3	487.4
70°	450.0	430.5	425.7	415.9	415.9
72.5°	383.4	363.9	354.2	347.7	346.1
75°	313.6	294.1	285.9	277.8	276.2
77.5°	245.3	232.3	219.3	212.8	209.6
80°	185.2	173.8	162.5	151.1	152.7
82.5°	126.7	115.4	107.2	97.5	94.2
85°	73.1	66.6	56.9	45.5	42.2
87.5°	30.9	22.7	16.2	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)