

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: P229764

Luminaire Tested: **24RLN-LD5-74-UNV-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229764  
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-LD5-74-UNV-L935-CD1-U  
Description: METALUX 2X4 RLN LED TROFFER  
Light Source: (252)3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6400.0 lumens  
Efficiency: N/A  
Efficacy: 103.9 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

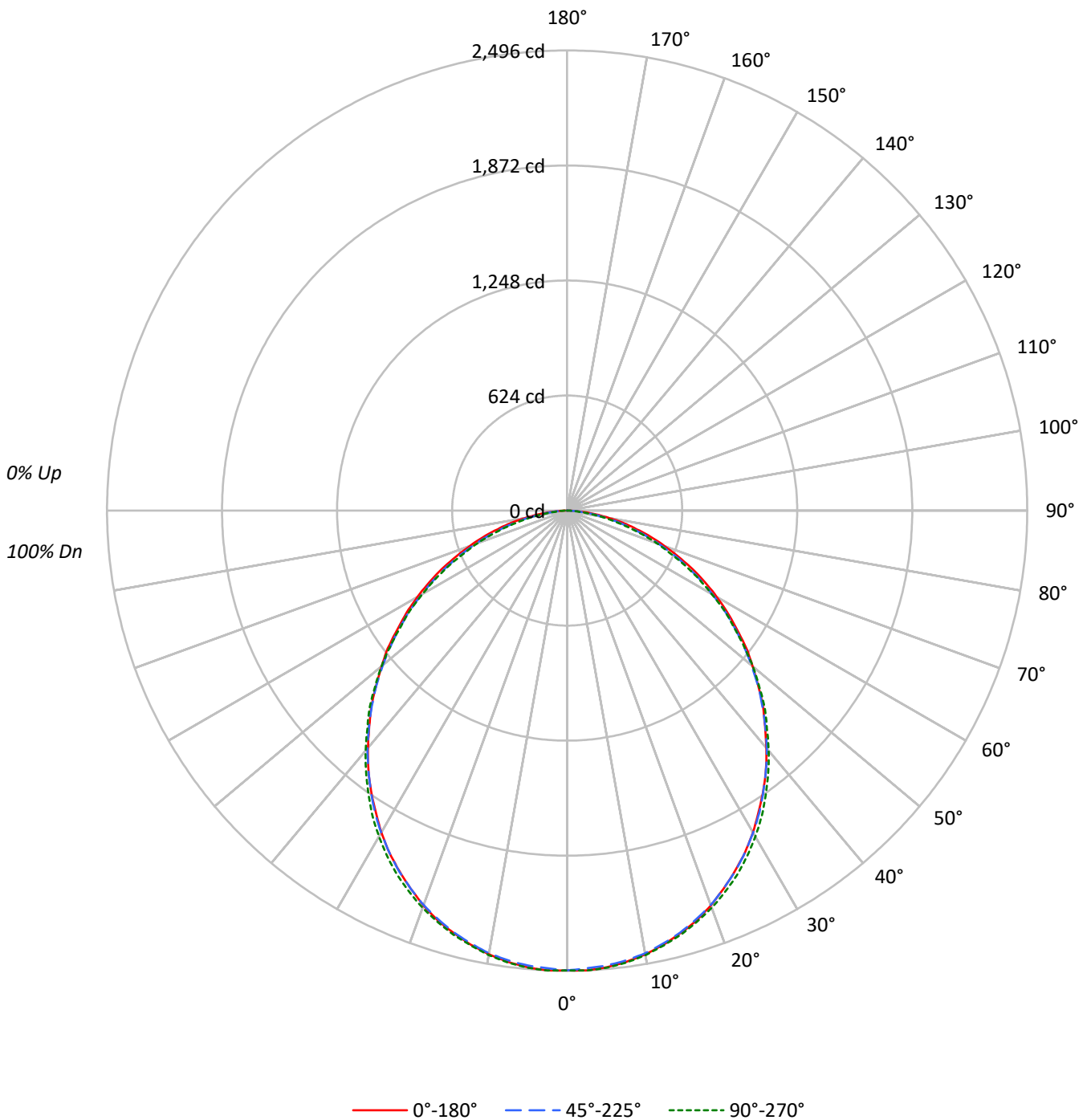
Input Watts (W): 61.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3821	3821	3821
5°	3823	3808	3826
10°	3801	3792	3808
15°	3764	3758	3777
20°	3715	3712	3738
25°	3644	3648	3685
30°	3564	3568	3611
35°	3467	3471	3512
40°	3361	3369	3402
45°	3253	3245	3284
50°	3128	3109	3133
55°	3000	2962	2952
60°	2874	2788	2775
65°	2715	2597	2561
70°	2515	2362	2317
75°	2312	2085	1978
80°	2024	1740	1581
85°	1662	1204	956



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.7	3.7
10°-20°	669.6	10.5
20°-30°	996.2	15.6
30°-40°	1163.9	18.2
40°-50°	1157.1	18.1
50°-60°	994.2	15.5
60°-70°	714.0	11.2
70°-80°	380.3	5.9
80°-90°	89.1	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°	1901.5	29.7
0°-40°	3065.5	47.9
0°-60°	5216.7	81.5
0°-90°	6400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6400.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2494	2494	2494	2494	2494	
5°	2486	2482	2476	2484	2488	236
15°	2374	2374	2370	2378	2382	669
25°	2156	2156	2158	2174	2180	993
35°	1854	1850	1856	1876	1878	1160
45°	1502	1490	1498	1506	1516	1156
55°	1123	1109	1109	1109	1105	1008
65°	749	727	717	709	707	741
75°	391	368	352	342	334	416
85°	95	80	68	56	54	111
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2494.5	2494.5	2494.5	2494.5	2494.5
2.5°	2496.5	2492.5	2484.4	2494.5	2496.5
5°	2486.5	2482.4	2476.4	2484.4	2488.5
7.5°	2468.3	2464.3	2460.3	2468.3	2472.4
10°	2444.2	2442.2	2438.1	2448.2	2448.2
12.5°	2412.0	2410.0	2405.9	2416.0	2416.0
15°	2373.7	2373.7	2369.7	2377.7	2381.8
17.5°	2331.4	2329.4	2325.4	2335.5	2339.5
20°	2279.1	2279.1	2277.1	2289.2	2293.2
22.5°	2218.7	2218.7	2218.7	2234.8	2238.8
25°	2156.3	2156.3	2158.3	2174.4	2180.4
27.5°	2089.8	2087.8	2089.8	2108.0	2114.0
30°	2015.3	2011.3	2017.4	2035.5	2041.5
32.5°	1934.8	1930.8	1940.8	1957.0	1965.0
35°	1854.3	1850.2	1856.3	1876.4	1878.4
37.5°	1771.7	1761.7	1771.7	1789.8	1791.9
40°	1681.1	1673.1	1685.2	1693.2	1701.3
42.5°	1588.5	1584.5	1590.5	1604.6	1604.6
45°	1501.9	1489.9	1497.9	1506.0	1516.0
47.5°	1405.3	1399.3	1403.3	1409.3	1413.4
50°	1312.7	1302.6	1304.6	1310.7	1314.7
52.5°	1226.1	1206.0	1206.0	1210.0	1210.0
55°	1123.4	1109.3	1109.3	1109.3	1105.3
57.5°	1032.8	1014.7	1012.7	1012.7	1012.7
60°	938.2	916.1	910.0	910.0	906.0
62.5°	843.6	823.5	815.4	807.3	807.3
65°	749.0	726.8	716.7	708.7	706.7
67.5°	652.3	636.2	624.1	614.1	604.0
70°	561.7	543.6	527.5	517.4	517.4
72.5°	477.2	457.0	440.9	428.8	422.8
75°	390.6	368.4	352.3	342.3	334.2
77.5°	314.1	289.9	273.8	259.7	251.7
80°	229.5	211.4	197.3	183.2	179.2
82.5°	159.1	145.0	128.9	118.8	114.8
85°	94.6	80.5	68.5	56.4	54.4
87.5°	38.3	28.2	22.1	22.1	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)