

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: P229881

Luminaire Tested: **24RLN-LD5-55-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229881  
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-LD5-55-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: 4723.0 lumens  
Efficiency: N/A  
Efficacy: 110.6 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

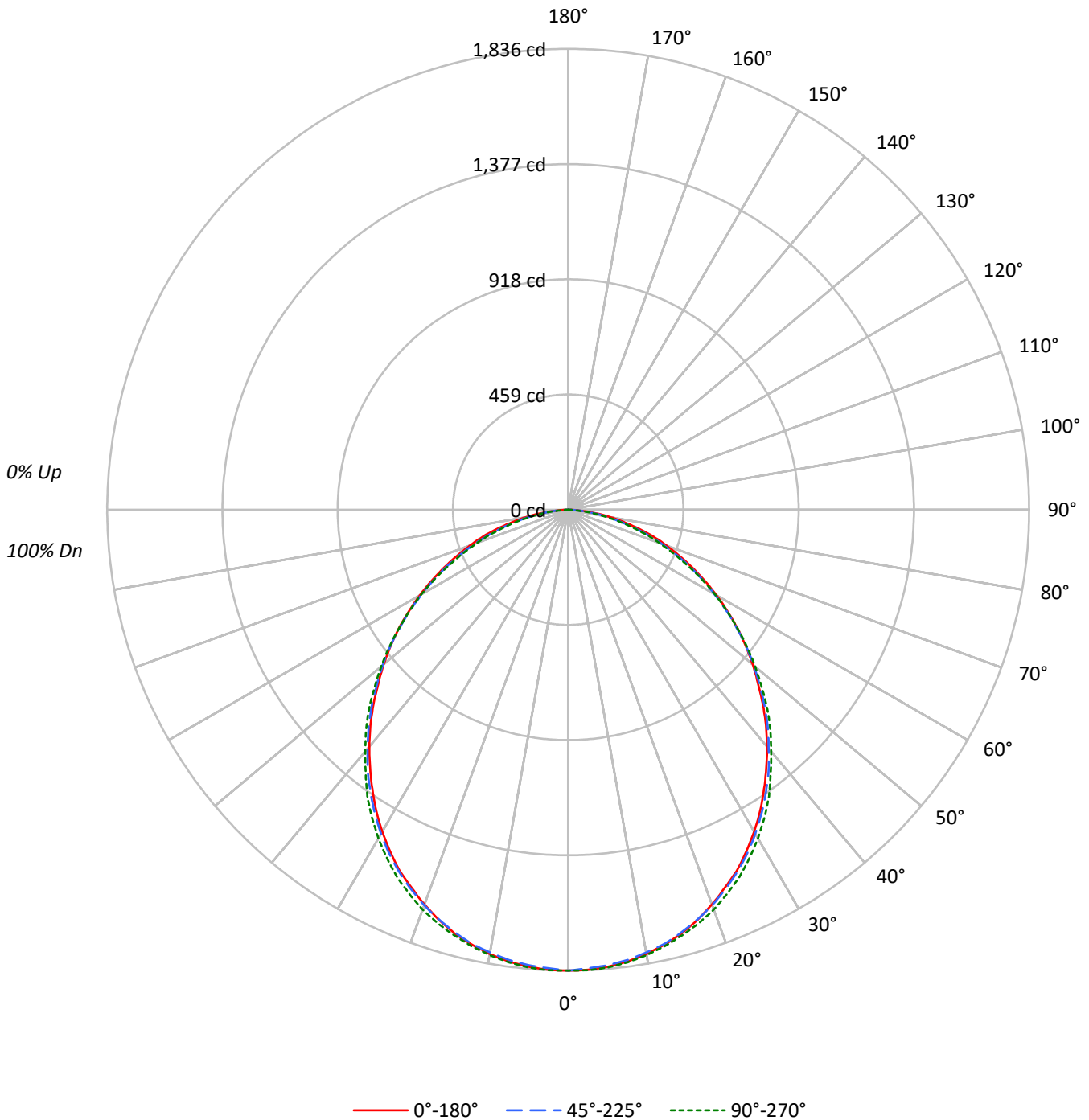
Input Watts (W): 42.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2813	2813	2813
5°	2810	2800	2814
10°	2795	2786	2802
15°	2771	2764	2783
20°	2729	2733	2763
25°	2684	2692	2727
30°	2620	2636	2673
35°	2542	2568	2607
40°	2463	2484	2514
45°	2375	2398	2430
50°	2287	2297	2315
55°	2197	2185	2193
60°	2092	2059	2069
65°	1973	1930	1897
70°	1866	1765	1724
75°	1718	1566	1513
80°	1513	1327	1247
85°	1190	924	687



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.3	3.7
10°-20°	492.8	10.4
20°-30°	734.5	15.6
30°-40°	858.7	18.2
40°-50°	852.8	18.1
50°-60°	732.3	15.5
60°-70°	527.5	11.2
70°-80°	284.0	6.0
80°-90°	67.0	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°	1400.7	29.7
0°-40°	2259.4	47.8
0°-60°	3844.5	81.4
0°-90°	4723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4723.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1836	1836	1836	1836	1836	
5°	1827	1826	1821	1827	1830	173
15°	1748	1743	1743	1754	1755	492
25°	1588	1582	1593	1609	1614	730
35°	1360	1358	1373	1388	1394	851
45°	1096	1093	1107	1116	1122	846
55°	823	815	818	823	821	735
65°	544	535	532	528	523	541
75°	290	272	265	257	256	308
85°	68	62	53	42	39	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1836.4	1836.4	1836.4	1836.4	1836.4
2.5°	1834.9	1833.4	1828.9	1834.9	1836.4
5°	1827.4	1825.9	1821.4	1827.4	1830.4
7.5°	1815.3	1812.3	1809.3	1815.3	1818.3
10°	1797.3	1794.3	1791.3	1798.8	1801.8
12.5°	1774.7	1771.7	1771.7	1777.7	1780.7
15°	1747.7	1743.1	1743.1	1753.7	1755.2
17.5°	1713.1	1710.1	1711.6	1723.6	1728.1
20°	1674.0	1672.5	1677.0	1690.5	1695.0
22.5°	1630.3	1628.8	1636.4	1652.9	1655.9
25°	1588.2	1582.2	1592.7	1609.3	1613.8
27.5°	1535.6	1531.1	1544.6	1559.7	1564.2
30°	1481.4	1476.9	1490.5	1507.0	1511.5
32.5°	1422.8	1419.8	1433.3	1449.9	1454.4
35°	1359.6	1358.1	1373.2	1388.2	1394.2
37.5°	1296.5	1295.0	1311.5	1323.5	1325.0
40°	1231.8	1228.8	1242.3	1255.8	1257.4
42.5°	1165.6	1161.1	1176.1	1186.7	1191.2
45°	1096.4	1093.4	1107.0	1116.0	1122.0
47.5°	1025.7	1025.7	1033.3	1043.8	1045.3
50°	959.6	955.0	964.1	970.1	971.6
52.5°	890.4	885.9	893.4	894.9	897.9
55°	822.7	815.2	818.2	822.7	821.2
57.5°	752.0	740.0	746.0	746.0	749.0
60°	682.8	672.3	672.3	672.3	675.3
62.5°	613.6	603.1	603.1	601.6	600.1
65°	544.5	535.4	532.4	527.9	523.4
67.5°	478.3	467.7	461.7	455.7	451.2
70°	416.6	398.6	394.1	385.0	385.0
72.5°	354.9	336.9	327.9	321.9	320.4
75°	290.3	272.2	264.7	257.2	255.7
77.5°	227.1	215.1	203.0	197.0	194.0
80°	171.5	160.9	150.4	139.9	141.4
82.5°	117.3	106.8	99.3	90.2	87.2
85°	67.7	61.7	52.6	42.1	39.1
87.5°	28.6	21.1	15.0	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)