

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: P229903

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229903  
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-L830-CD1-SVPD1-U  
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS  
Light Source: (252)3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5311.0 lumens  
Efficiency: N/A  
Efficacy: 98.5 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

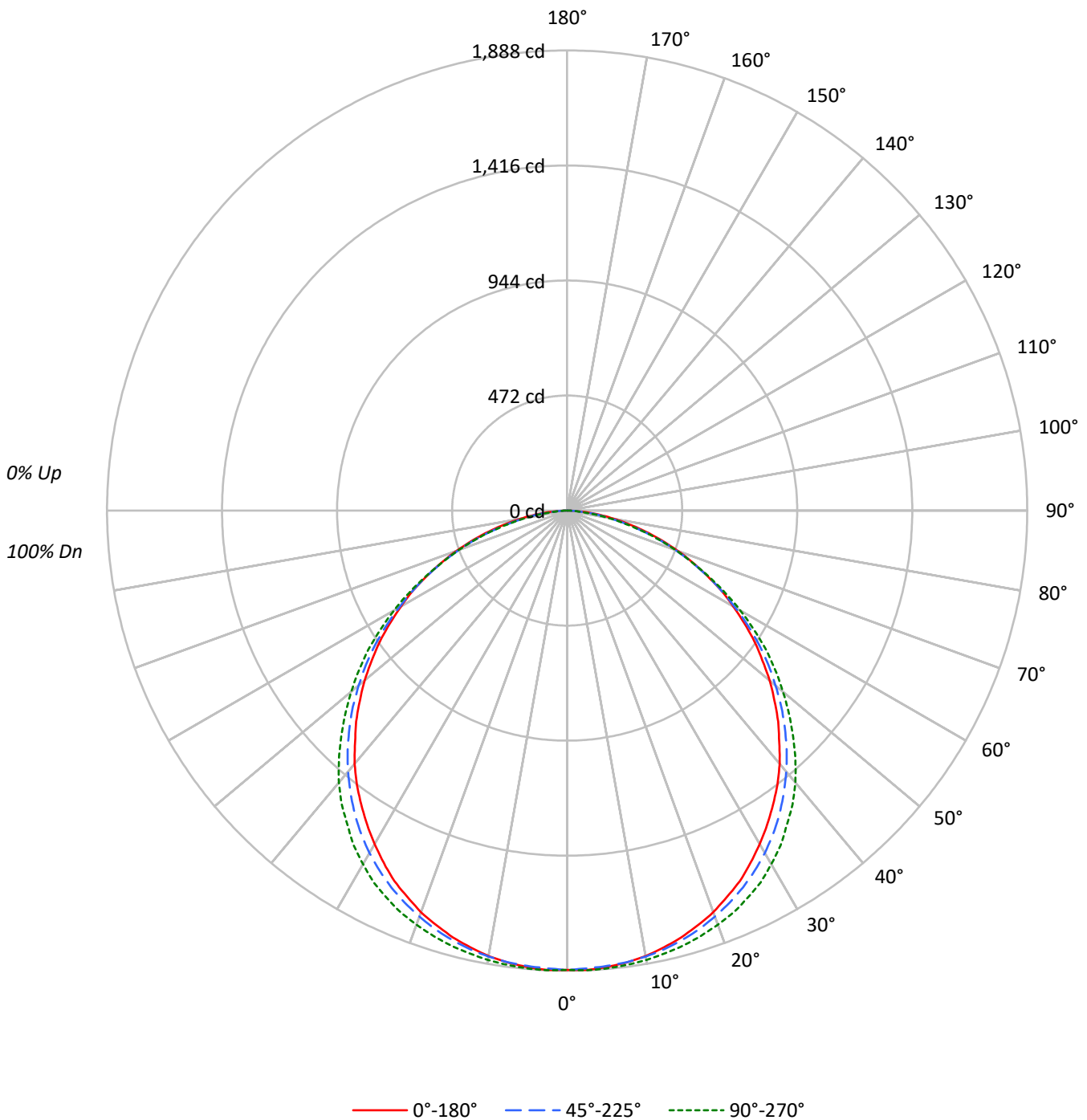
Input Watts (W): 53.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2886	2886	2886
5°	2891	2884	2899
10°	2886	2890	2912
15°	2874	2892	2928
20°	2859	2889	2947
25°	2835	2883	2962
30°	2794	2869	2963
35°	2753	2840	2940
40°	2712	2796	2913
45°	2652	2736	2840
50°	2585	2659	2754
55°	2507	2569	2661
60°	2411	2442	2517
65°	2299	2299	2323
70°	2162	2122	2117
75°	1972	1854	1848
80°	1719	1543	1475
85°	1362	1070	837



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.8	3.4
10°-20°	515.8	9.7
20°-30°	788.1	14.8
30°-40°	950.7	17.9
40°-50°	974.4	18.3
50°-60°	858.5	16.2
60°-70°	628.3	11.8
70°-80°	337.7	6.4
80°-90°	78.6	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°	1482.7	27.9
0°-40°	2433.4	45.8
0°-60°	4266.3	80.3
0°-90°	5311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5311.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1884	1884	1884	1884	1884	
5°	1880	1878	1876	1881	1886	179
15°	1812	1815	1824	1838	1847	511
25°	1677	1682	1706	1739	1753	772
35°	1473	1480	1519	1561	1572	922
45°	1224	1223	1263	1300	1311	943
55°	939	933	962	984	996	838
65°	634	623	634	642	641	629
75°	333	318	313	313	312	354
85°	78	69	61	50	48	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1884.4	1884.4	1884.4	1884.4	1884.4
2.5°	1886.6	1883.3	1880.0	1883.3	1887.8
5°	1880.0	1877.8	1875.6	1881.1	1885.5
7.5°	1870.0	1867.8	1868.9	1876.7	1880.0
10°	1855.6	1855.6	1857.9	1866.7	1872.3
12.5°	1835.7	1836.8	1843.5	1854.5	1860.1
15°	1812.5	1814.7	1823.5	1837.9	1846.8
17.5°	1783.7	1789.2	1801.4	1819.1	1829.1
20°	1753.8	1757.1	1772.6	1798.1	1808.0
22.5°	1715.0	1721.7	1741.6	1771.5	1784.8
25°	1677.4	1681.8	1706.2	1739.4	1752.7
27.5°	1629.8	1636.4	1666.3	1705.1	1719.5
30°	1580.0	1587.7	1622.0	1659.7	1675.2
32.5°	1527.9	1537.9	1573.3	1613.2	1629.8
35°	1472.6	1480.3	1519.1	1561.1	1572.2
37.5°	1417.2	1419.4	1460.4	1501.3	1519.1
40°	1356.3	1358.5	1398.4	1437.1	1457.1
42.5°	1287.7	1294.3	1333.1	1370.7	1386.2
45°	1224.5	1223.4	1263.3	1299.8	1310.9
47.5°	1153.7	1155.9	1192.4	1227.9	1234.5
50°	1085.0	1083.9	1116.0	1147.0	1155.9
52.5°	1009.8	1008.6	1040.8	1066.2	1077.3
55°	938.9	933.4	962.1	984.3	996.5
57.5°	862.5	854.7	880.2	902.4	907.9
60°	787.2	778.4	797.2	813.8	821.5
62.5°	715.2	704.2	716.3	730.7	731.8
65°	634.4	623.3	634.4	642.2	641.1
67.5°	558.0	545.8	551.4	554.7	553.6
70°	482.7	466.1	473.9	471.7	472.8
72.5°	407.4	394.2	393.1	389.7	393.1
75°	333.3	317.8	313.3	313.3	312.2
77.5°	262.4	246.9	242.5	240.3	236.9
80°	194.9	182.7	174.9	173.8	167.2
82.5°	137.3	121.8	119.6	109.6	103.0
85°	77.5	68.6	60.9	49.8	47.6
87.5°	28.8	25.5	19.9	18.8	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)