

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: P229954

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229954  
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-LD5-74-RDP-UNV-L940-CD1-SVPD1-U  
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS  
Light Source: (252)4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5378.0 lumens  
Efficiency: N/A  
Efficacy: 87.3 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

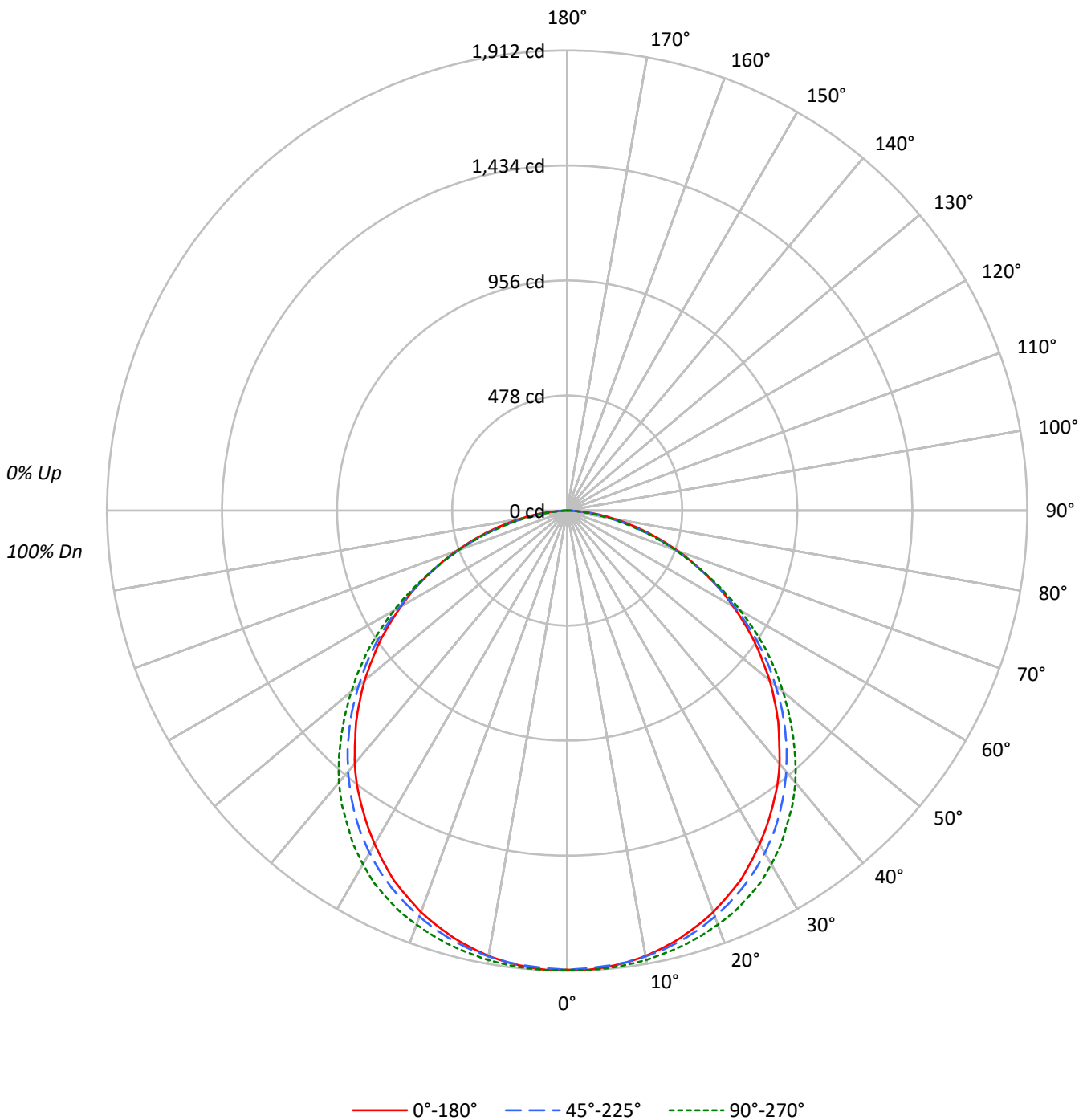
Input Watts (W): 61.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2923	2923	2923
5°	2927	2920	2936
10°	2923	2926	2949
15°	2910	2928	2965
20°	2895	2926	2984
25°	2870	2920	2999
30°	2830	2905	3000
35°	2788	2876	2977
40°	2746	2831	2950
45°	2686	2771	2875
50°	2618	2693	2789
55°	2539	2602	2694
60°	2442	2473	2548
65°	2328	2328	2352
70°	2189	2149	2144
75°	1997	1878	1871
80°	1740	1562	1493
85°	1380	1084	847



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.1	3.4
10°-20°	522.3	9.7
20°-30°	798.0	14.8
30°-40°	962.7	17.9
40°-50°	986.7	18.3
50°-60°	869.4	16.2
60°-70°	636.3	11.8
70°-80°	341.9	6.4
80°-90°	79.6	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°	1501.4	27.9
0°-40°	2464.1	45.8
0°-60°	4320.1	80.3
0°-90°	5378.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5378.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1908	1908	1908	1908	1908	
5°	1904	1902	1899	1905	1909	181
15°	1835	1838	1846	1861	1870	518
25°	1698	1703	1728	1761	1775	781
35°	1491	1499	1538	1581	1592	933
45°	1240	1239	1279	1316	1327	955
55°	951	945	974	997	1009	848
65°	642	631	642	650	649	637
75°	338	322	317	317	316	358
85°	78	70	62	50	48	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1908.2	1908.2	1908.2	1908.2	1908.2
2.5°	1910.4	1907.1	1903.7	1907.1	1911.6
5°	1903.7	1901.5	1899.2	1904.8	1909.3
7.5°	1893.6	1891.4	1892.5	1900.4	1903.7
10°	1879.1	1879.1	1881.3	1890.3	1895.9
12.5°	1858.9	1860.0	1866.7	1877.9	1883.5
15°	1835.3	1837.6	1846.5	1861.1	1870.1
17.5°	1806.2	1811.8	1824.1	1842.1	1852.1
20°	1775.9	1779.3	1795.0	1820.8	1830.8
22.5°	1736.7	1743.4	1763.6	1793.8	1807.3
25°	1698.5	1703.0	1727.7	1761.3	1774.8
27.5°	1650.3	1657.1	1687.3	1726.6	1741.2
30°	1599.9	1607.7	1642.5	1680.6	1696.3
32.5°	1547.2	1557.3	1593.2	1633.5	1650.3
35°	1491.1	1499.0	1538.2	1580.8	1592.0
37.5°	1435.1	1437.3	1478.8	1520.3	1538.2
40°	1373.4	1375.7	1416.0	1455.3	1475.4
42.5°	1303.9	1310.6	1349.9	1388.0	1403.7
45°	1240.0	1238.9	1279.2	1316.2	1327.4
47.5°	1168.2	1170.5	1207.5	1243.4	1250.1
50°	1098.7	1097.6	1130.1	1161.5	1170.5
52.5°	1022.5	1021.4	1053.9	1079.7	1090.9
55°	950.7	945.1	974.3	996.7	1009.0
57.5°	873.4	865.5	891.3	913.7	919.3
60°	797.1	788.2	807.2	824.0	831.9
62.5°	724.3	713.1	725.4	740.0	741.1
65°	642.4	631.2	642.4	650.3	649.1
67.5°	565.1	552.7	558.3	561.7	560.6
70°	488.8	472.0	479.9	477.6	478.7
72.5°	412.6	399.1	398.0	394.6	398.0
75°	337.5	321.8	317.3	317.3	316.2
77.5°	265.7	250.0	245.5	243.3	239.9
80°	197.3	185.0	177.1	176.0	169.3
82.5°	139.0	123.3	121.1	111.0	104.3
85°	78.5	69.5	61.7	50.5	48.2
87.5°	29.1	25.8	20.2	19.1	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)