

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: P229923

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229923
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-L840-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5532.0 lumens
Efficiency: N/A
Efficacy: 102.6 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

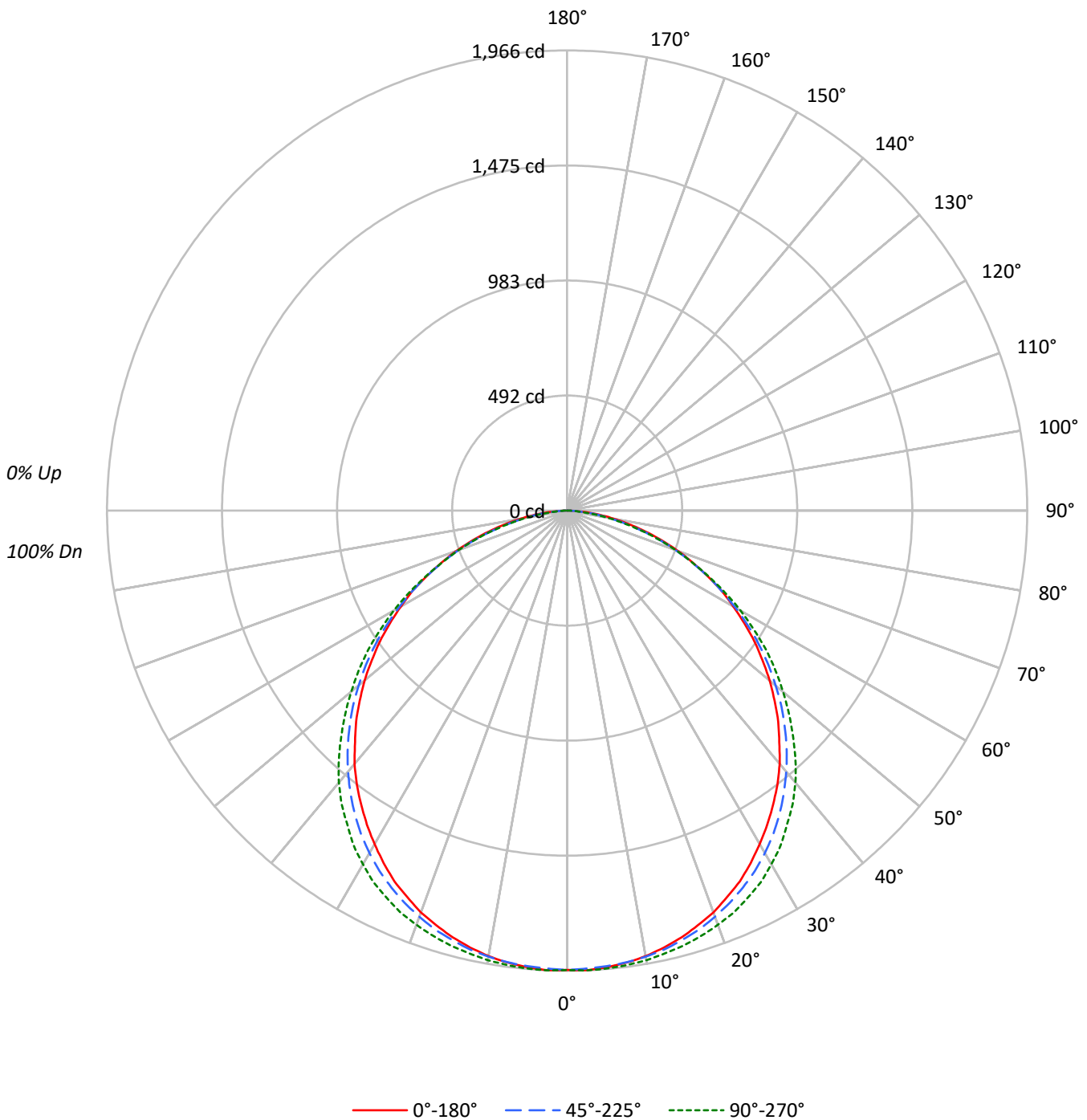
Input Watts (W): 53.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3006	3006	3006
5°	3011	3004	3020
10°	3006	3010	3033
15°	2994	3012	3050
20°	2978	3010	3070
25°	2953	3003	3085
30°	2911	2988	3086
35°	2868	2959	3062
40°	2825	2912	3035
45°	2763	2850	2958
50°	2693	2770	2869
55°	2612	2676	2772
60°	2512	2543	2621
65°	2395	2395	2420
70°	2252	2210	2205
75°	2054	1932	1925
80°	1791	1607	1536
85°	1418	1114	872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.3	3.4
10°-20°	537.2	9.7
20°-30°	820.9	14.8
30°-40°	990.3	17.9
40°-50°	1015.0	18.3
50°-60°	894.3	16.2
60°-70°	654.5	11.8
70°-80°	351.7	6.4
80°-90°	81.9	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°	1544.4	27.9
0°-40°	2534.6	45.8
0°-60°	4443.9	80.3
0°-90°	5532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5532.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1963	1963	1963	1963	1963	
5°	1958	1956	1954	1959	1964	186
15°	1888	1890	1899	1914	1924	533
25°	1747	1752	1777	1812	1826	804
35°	1534	1542	1582	1626	1638	960
45°	1276	1274	1316	1354	1366	982
55°	978	972	1002	1025	1038	873
65°	661	649	661	669	668	655
75°	347	331	326	326	325	368
85°	81	72	63	52	50	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1962.8	1962.8	1962.8	1962.8	1962.8
2.5°	1965.2	1961.7	1958.2	1961.7	1966.3
5°	1958.2	1955.9	1953.6	1959.4	1964.0
7.5°	1947.9	1945.5	1946.7	1954.8	1958.2
10°	1932.9	1932.9	1935.2	1944.4	1950.2
12.5°	1912.1	1913.3	1920.2	1931.7	1937.5
15°	1887.9	1890.2	1899.4	1914.4	1923.6
17.5°	1857.9	1863.7	1876.4	1894.8	1905.2
20°	1826.8	1830.2	1846.4	1872.9	1883.3
22.5°	1786.4	1793.3	1814.1	1845.2	1859.1
25°	1747.2	1751.8	1777.2	1811.8	1825.6
27.5°	1697.6	1704.5	1735.7	1776.0	1791.0
30°	1645.7	1653.8	1689.5	1728.7	1744.9
32.5°	1591.5	1601.9	1638.8	1680.3	1697.6
35°	1533.8	1541.9	1582.3	1626.1	1637.6
37.5°	1476.2	1478.5	1521.1	1563.8	1582.3
40°	1412.7	1415.0	1456.6	1496.9	1517.7
42.5°	1341.2	1348.2	1388.5	1427.7	1443.9
45°	1275.5	1274.3	1315.9	1353.9	1365.5
47.5°	1201.7	1204.0	1242.1	1279.0	1285.9
50°	1130.2	1129.0	1162.5	1194.8	1204.0
52.5°	1051.8	1050.6	1084.1	1110.6	1122.1
55°	978.0	972.2	1002.2	1025.2	1037.9
57.5°	898.4	890.3	916.8	939.9	945.7
60°	820.0	810.7	830.3	847.6	855.7
62.5°	745.0	733.5	746.2	761.2	762.3
65°	660.8	649.3	660.8	668.9	667.7
67.5°	581.2	568.6	574.3	577.8	576.6
70°	502.8	485.5	493.6	491.3	492.4
72.5°	424.4	410.6	409.4	405.9	409.4
75°	347.1	331.0	326.4	326.4	325.2
77.5°	273.3	257.2	252.6	250.3	246.8
80°	203.0	190.3	182.2	181.1	174.1
82.5°	143.0	126.9	124.6	114.2	107.3
85°	80.7	71.5	63.4	51.9	49.6
87.5°	30.0	26.5	20.8	19.6	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)