

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: P229833

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-67-RDP-UNV-L940-CD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS
Light Source: (252)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4948.0 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

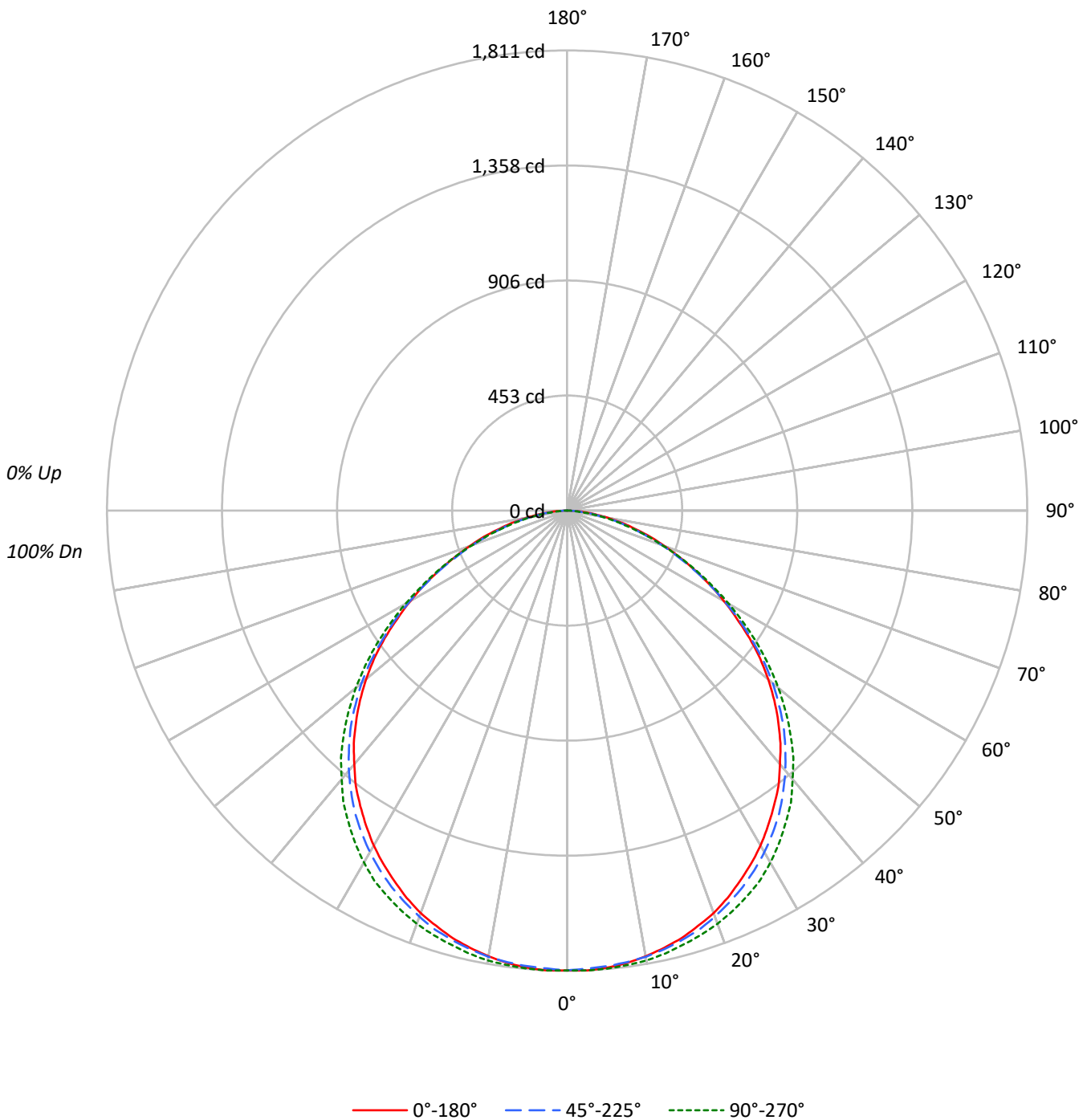
Input Watts (W): 53.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	102	99	95	98	95	92	94	92	90	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	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2772	2772	2772
5°	2776	2768	2782
10°	2770	2773	2797
15°	2762	2774	2804
20°	2747	2772	2821
25°	2719	2763	2830
30°	2692	2745	2829
35°	2653	2720	2804
40°	2605	2672	2759
45°	2545	2610	2692
50°	2460	2518	2585
55°	2341	2371	2441
60°	2185	2196	2254
65°	2007	1993	2041
70°	1824	1774	1782
75°	1622	1533	1522
80°	1408	1259	1225
85°	1155	891	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	3.5
10°-20°	494.7	10.0
20°-30°	755.2	15.3
30°-40°	910.4	18.4
40°-50°	928.4	18.8
50°-60°	794.5	16.1
60°-70°	547.3	11.1
70°-80°	280.6	5.7
80°-90°	65.3	1.3
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°	1421.5	28.7
0°-40°	2331.9	47.1
0°-60°	4054.8	81.9
0°-90°	4948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1810	1810	1810	1810	1810	
5°	1806	1802	1800	1806	1810	172
15°	1742	1740	1749	1763	1768	491
25°	1609	1614	1635	1663	1674	742
35°	1419	1425	1455	1487	1500	888
45°	1175	1177	1205	1235	1243	905
55°	877	871	888	907	914	782
65°	554	541	550	554	563	550
75°	274	263	259	259	257	295
85°	66	58	51	45	39	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1809.5	1809.5	1809.5	1809.5	1809.5
2.5°	1811.4	1807.6	1803.9	1807.6	1811.4
5°	1805.7	1802.0	1800.1	1805.7	1809.5
7.5°	1796.4	1792.6	1792.6	1800.1	1803.9
10°	1781.3	1779.5	1783.2	1790.7	1798.2
12.5°	1762.6	1762.6	1768.2	1777.6	1785.1
15°	1741.9	1740.1	1749.4	1762.6	1768.2
17.5°	1713.8	1715.6	1728.8	1743.8	1751.3
20°	1685.6	1687.5	1700.6	1721.3	1730.7
22.5°	1650.0	1653.7	1668.7	1695.0	1704.4
25°	1608.7	1614.3	1634.9	1663.1	1674.4
27.5°	1567.4	1573.0	1595.5	1627.4	1642.4
30°	1522.3	1529.8	1552.3	1586.1	1599.3
32.5°	1471.6	1477.3	1505.4	1539.2	1552.3
35°	1419.1	1424.7	1454.7	1486.6	1499.8
37.5°	1366.5	1366.5	1396.5	1434.1	1447.2
40°	1302.7	1304.6	1336.5	1372.1	1379.7
42.5°	1242.6	1242.6	1270.8	1304.6	1317.7
45°	1175.1	1176.9	1205.1	1235.1	1242.6
47.5°	1105.6	1105.6	1130.0	1158.2	1165.7
50°	1032.4	1028.6	1056.8	1079.3	1085.0
52.5°	957.3	951.7	974.2	993.0	1000.5
55°	876.6	871.0	887.9	906.6	914.1
57.5°	792.1	784.6	803.4	820.3	824.0
60°	713.3	702.0	717.0	726.4	735.8
62.5°	634.5	621.3	632.6	638.2	645.7
65°	553.7	540.6	550.0	553.7	563.1
67.5°	476.8	467.4	469.3	474.9	478.7
70°	407.3	396.1	396.1	396.1	397.9
72.5°	343.5	326.6	324.7	326.6	326.6
75°	274.1	262.8	259.0	259.0	257.2
77.5°	219.6	204.6	202.7	199.0	195.2
80°	159.6	146.4	142.7	140.8	138.9
82.5°	110.7	99.5	95.7	92.0	86.3
85°	65.7	58.2	50.7	45.0	39.4
87.5°	24.4	22.5	18.8	16.9	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)