

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: P229922

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229922
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-LD5-60-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: 4913.0 lumens
Efficiency: N/A
Efficacy: 103.0 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

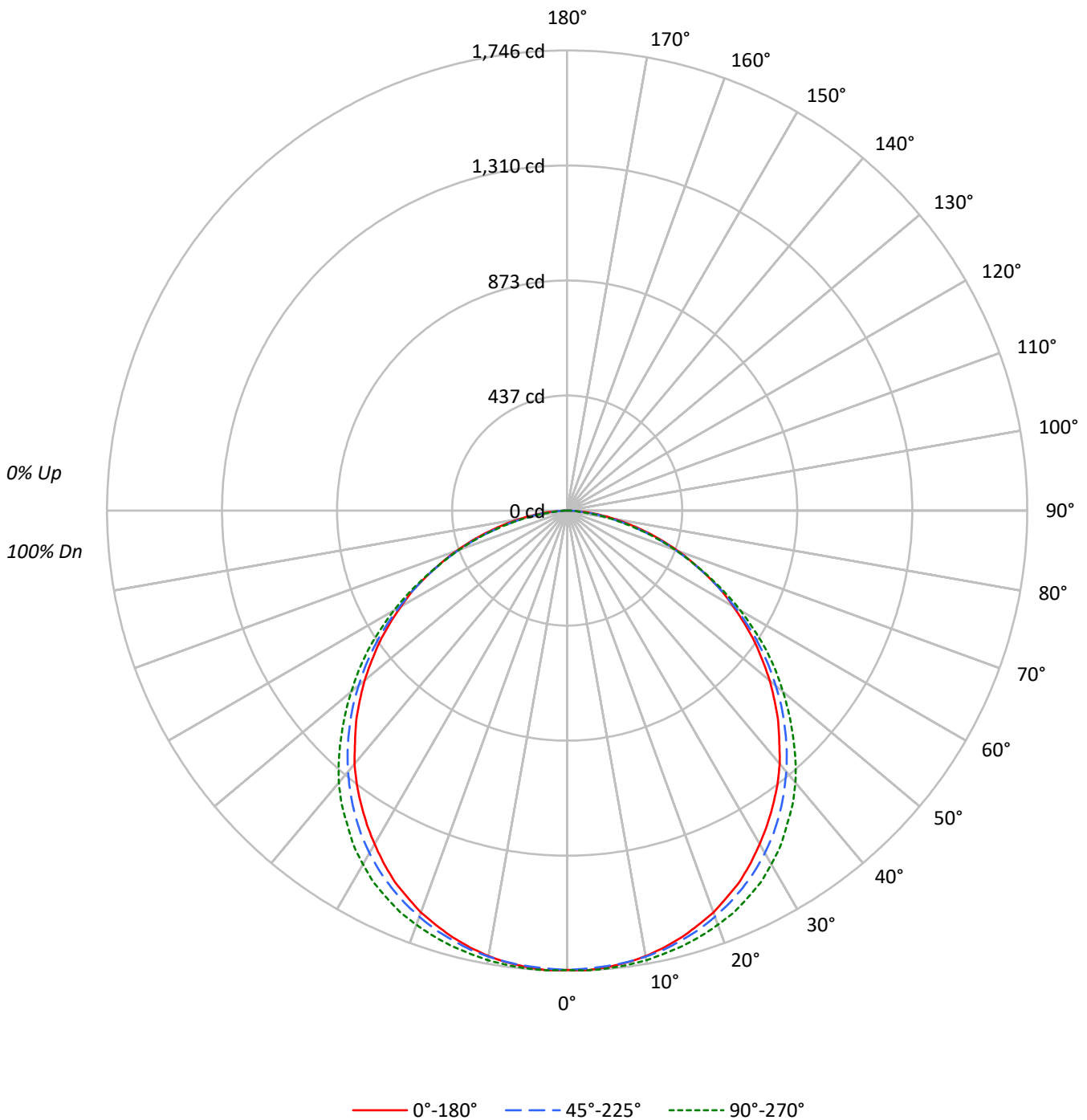
Input Watts (W): 47.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2670	2670	2670
5°	2674	2668	2682
10°	2670	2673	2694
15°	2659	2675	2709
20°	2644	2673	2726
25°	2622	2667	2740
30°	2585	2654	2741
35°	2547	2627	2719
40°	2509	2586	2695
45°	2454	2531	2627
50°	2392	2460	2548
55°	2319	2377	2462
60°	2231	2259	2328
65°	2127	2127	2149
70°	2000	1963	1958
75°	1824	1716	1709
80°	1590	1427	1365
85°	1260	989	773



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.4	3.4
10°-20°	477.1	9.7
20°-30°	729.0	14.8
30°-40°	879.4	17.9
40°-50°	901.4	18.3
50°-60°	794.2	16.2
60°-70°	581.3	11.8
70°-80°	312.4	6.4
80°-90°	72.7	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°	1371.5	27.9
0°-40°	2251.0	45.8
0°-60°	3946.6	80.3
0°-90°	4913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1743	1743	1743	1743	1743	
5°	1739	1737	1735	1740	1744	165
15°	1677	1679	1687	1700	1708	473
25°	1552	1556	1578	1609	1621	714
35°	1362	1369	1405	1444	1454	853
45°	1133	1132	1169	1202	1213	873
55°	868	863	890	910	922	775
65°	587	577	587	594	593	582
75°	308	294	290	290	289	327
85°	72	64	56	46	44	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1743.2	1743.2	1743.2	1743.2	1743.2
2.5°	1745.3	1742.2	1739.1	1742.2	1746.3
5°	1739.1	1737.1	1735.0	1740.1	1744.2
7.5°	1729.9	1727.9	1728.9	1736.0	1739.1
10°	1716.6	1716.6	1718.6	1726.8	1731.9
12.5°	1698.1	1699.2	1705.3	1715.6	1720.7
15°	1676.6	1678.7	1686.9	1700.2	1708.4
17.5°	1650.0	1655.1	1666.4	1682.8	1692.0
20°	1622.4	1625.4	1639.8	1663.3	1672.5
22.5°	1586.5	1592.7	1611.1	1638.7	1651.0
25°	1551.7	1555.8	1578.3	1609.0	1621.3
27.5°	1507.6	1513.8	1541.4	1577.3	1590.6
30°	1461.6	1468.7	1500.5	1535.3	1549.6
32.5°	1413.4	1422.6	1455.4	1492.3	1507.6
35°	1362.2	1369.4	1405.2	1444.1	1454.4
37.5°	1311.0	1313.0	1350.9	1388.8	1405.2
40°	1254.7	1256.7	1293.6	1329.4	1347.9
42.5°	1191.2	1197.3	1233.2	1268.0	1282.3
45°	1132.8	1131.8	1168.6	1202.4	1212.7
47.5°	1067.2	1069.3	1103.1	1135.9	1142.0
50°	1003.7	1002.7	1032.4	1061.1	1069.3
52.5°	934.1	933.1	962.8	986.3	996.6
55°	868.5	863.4	890.0	910.5	921.8
57.5°	797.9	790.7	814.3	834.7	839.9
60°	728.2	720.0	737.4	752.8	760.0
62.5°	661.6	651.4	662.7	676.0	677.0
65°	586.9	576.6	586.9	594.0	593.0
67.5°	516.2	504.9	510.1	513.1	512.1
70°	446.6	431.2	438.4	436.3	437.3
72.5°	376.9	364.6	363.6	360.5	363.6
75°	308.3	293.9	289.9	289.9	288.8
77.5°	242.7	228.4	224.3	222.3	219.2
80°	180.3	169.0	161.8	160.8	154.7
82.5°	127.0	112.7	110.6	101.4	95.3
85°	71.7	63.5	56.3	46.1	44.0
87.5°	26.6	23.6	18.4	17.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)