

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: P229813

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229813
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-L930-CD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4649.0 lumens
Efficiency: N/A
Efficacy: 86.3 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

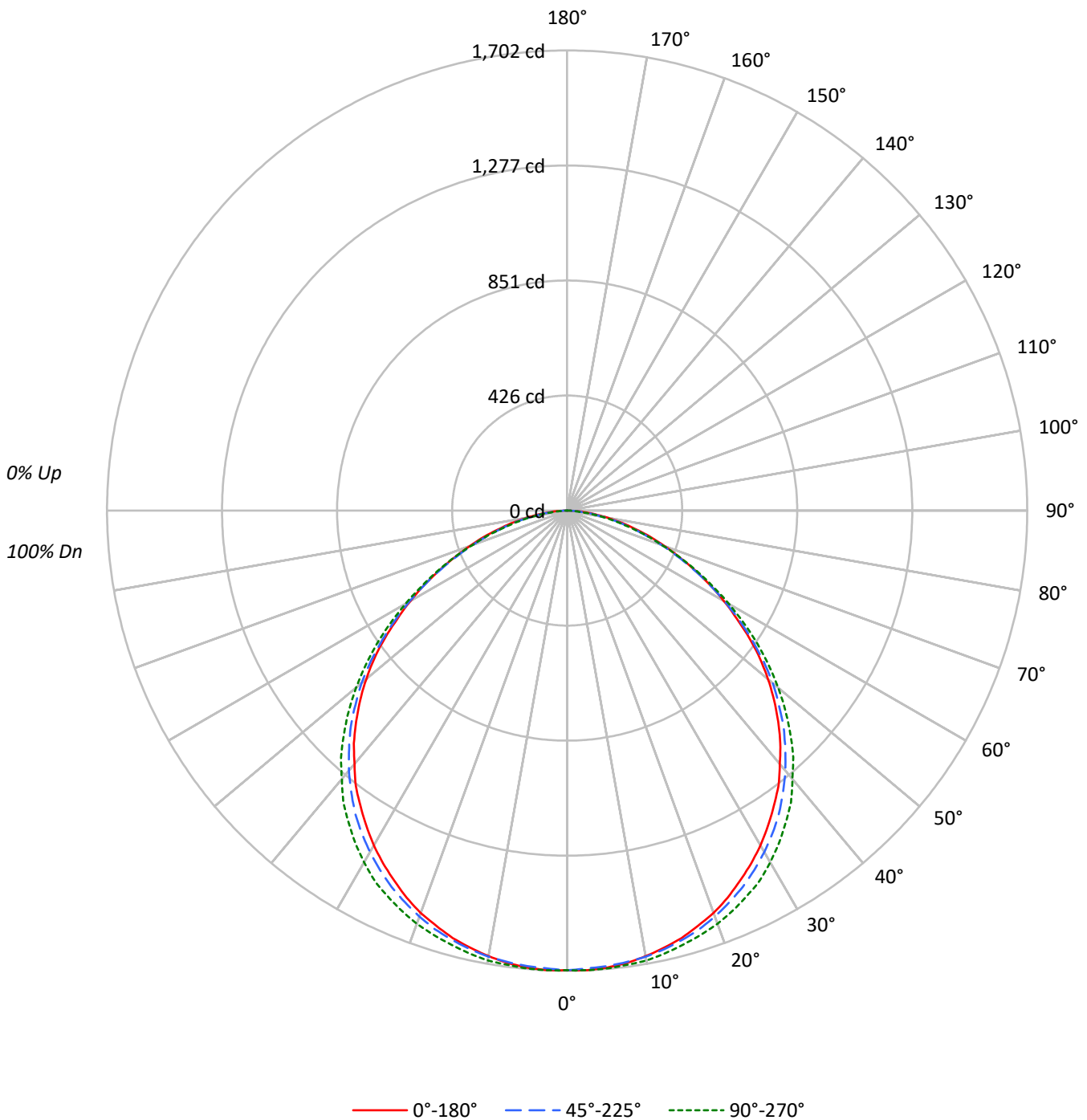
Input Watts (W): 53.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2604	2604	2604
5°	2609	2600	2614
10°	2603	2606	2628
15°	2595	2606	2634
20°	2582	2605	2650
25°	2554	2596	2659
30°	2530	2580	2658
35°	2493	2556	2635
40°	2447	2511	2592
45°	2391	2453	2529
50°	2311	2366	2429
55°	2199	2228	2294
60°	2053	2064	2118
65°	1886	1873	1918
70°	1714	1666	1674
75°	1524	1440	1430
80°	1322	1182	1151
85°	1084	837	650



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	3.5
10°-20°	464.8	10.0
20°-30°	709.5	15.3
30°-40°	855.4	18.4
40°-50°	872.3	18.8
50°-60°	746.5	16.1
60°-70°	514.2	11.1
70°-80°	263.6	5.7
80°-90°	61.4	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°	1335.6	28.7
0°-40°	2191.0	47.1
0°-60°	3809.8	81.9
0°-90°	4649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1700	1700	1700	1700	1700	
5°	1697	1693	1691	1697	1700	161
15°	1637	1635	1644	1656	1661	462
25°	1511	1517	1536	1563	1573	697
35°	1333	1339	1367	1397	1409	834
45°	1104	1106	1132	1160	1168	851
55°	824	818	834	852	859	735
65°	520	508	517	520	529	517
75°	258	247	243	243	242	278
85°	62	55	48	42	37	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1700.2	1700.2	1700.2	1700.2	1700.2
2.5°	1701.9	1698.4	1694.9	1698.4	1701.9
5°	1696.6	1693.1	1691.3	1696.6	1700.2
7.5°	1687.8	1684.3	1684.3	1691.3	1694.9
10°	1673.7	1671.9	1675.5	1682.5	1689.6
12.5°	1656.1	1656.1	1661.4	1670.2	1677.2
15°	1636.7	1634.9	1643.7	1656.1	1661.4
17.5°	1610.2	1612.0	1624.3	1638.4	1645.5
20°	1583.8	1585.5	1597.9	1617.3	1626.1
22.5°	1550.2	1553.8	1567.9	1592.6	1601.4
25°	1511.4	1516.7	1536.1	1562.6	1573.2
27.5°	1472.6	1477.9	1499.1	1529.1	1543.2
30°	1430.3	1437.4	1458.5	1490.3	1502.6
32.5°	1382.7	1388.0	1414.4	1446.2	1458.5
35°	1333.3	1338.6	1366.8	1396.8	1409.2
37.5°	1283.9	1283.9	1312.2	1347.4	1359.8
40°	1224.0	1225.7	1255.7	1289.2	1296.3
42.5°	1167.5	1167.5	1194.0	1225.7	1238.1
45°	1104.0	1105.8	1132.3	1160.5	1167.5
47.5°	1038.8	1038.8	1061.7	1088.2	1095.2
50°	970.0	966.5	992.9	1014.1	1019.4
52.5°	899.5	894.2	915.3	933.0	940.0
55°	823.6	818.3	834.2	851.8	858.9
57.5°	744.3	737.2	754.8	770.7	774.2
60°	670.2	659.6	673.7	682.5	691.4
62.5°	596.1	583.8	594.3	599.6	606.7
65°	520.3	507.9	516.7	520.3	529.1
67.5°	448.0	439.1	440.9	446.2	449.7
70°	382.7	372.1	372.1	372.1	373.9
72.5°	322.7	306.9	305.1	306.9	306.9
75°	257.5	246.9	243.4	243.4	241.6
77.5°	206.3	192.2	190.5	186.9	183.4
80°	149.9	137.6	134.0	132.3	130.5
82.5°	104.1	93.5	89.9	86.4	81.1
85°	61.7	54.7	47.6	42.3	37.0
87.5°	22.9	21.2	17.6	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)