

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: P229880

Luminaire Tested: **24RLN-LD5-50-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36062)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-50-UNV-L935-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR
Light Source: (252)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4252.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

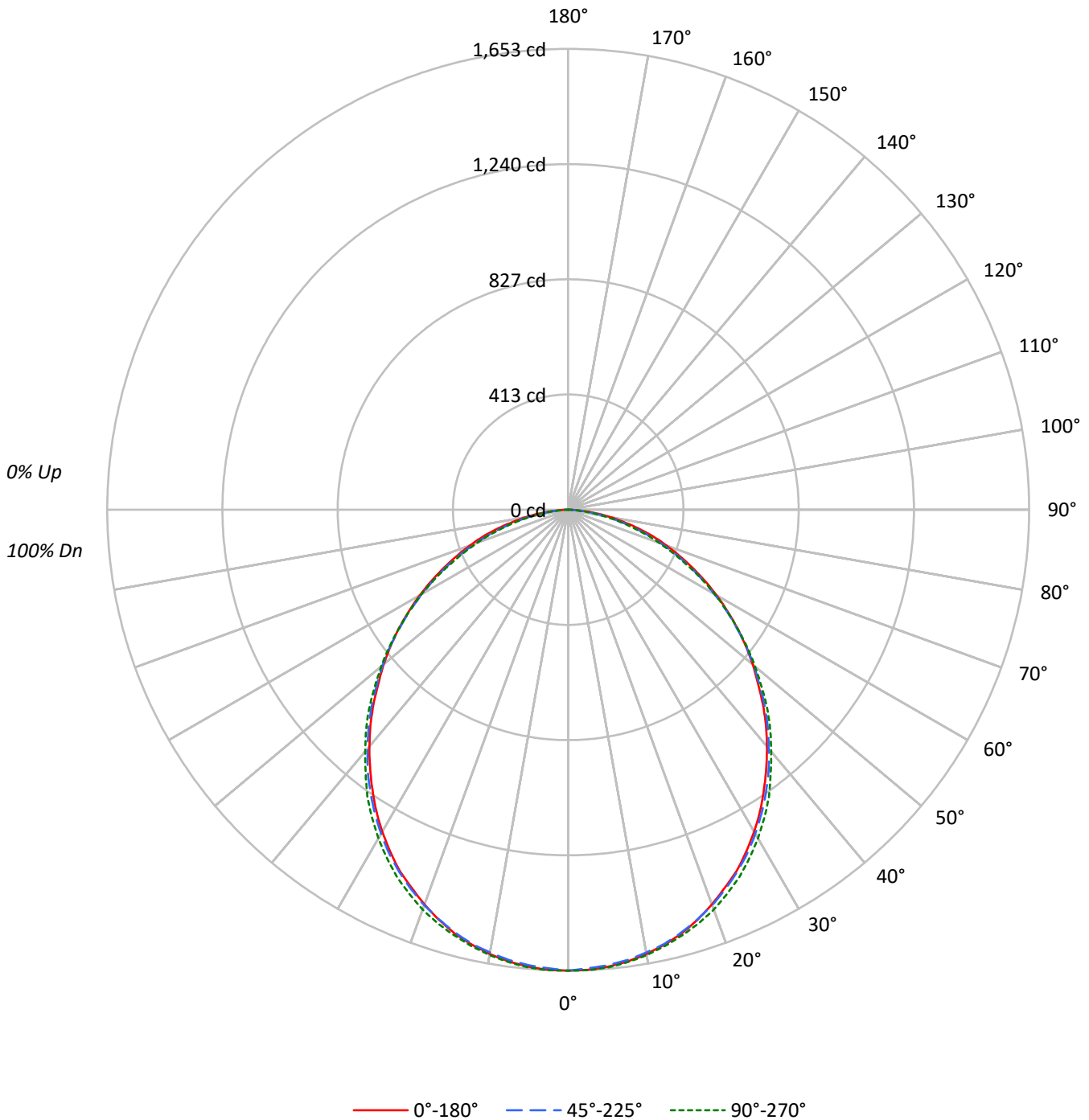
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	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	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2532	2532	2532
5°	2529	2521	2534
10°	2517	2508	2523
15°	2495	2488	2506
20°	2456	2461	2487
25°	2416	2423	2455
30°	2359	2373	2407
35°	2289	2311	2347
40°	2217	2236	2263
45°	2138	2159	2188
50°	2059	2068	2084
55°	1978	1967	1974
60°	1883	1854	1863
65°	1777	1737	1708
70°	1680	1589	1552
75°	1546	1410	1362
80°	1362	1194	1123
85°	1070	833	619



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	3.7
10°-20°	443.7	10.4
20°-30°	661.3	15.6
30°-40°	773.1	18.2
40°-50°	767.7	18.1
50°-60°	659.2	15.5
60°-70°	474.9	11.2
70°-80°	255.7	6.0
80°-90°	60.3	1.4
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°	1261.0	29.7
0°-40°	2034.1	47.8
0°-60°	3461.1	81.4
0°-90°	4252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4252.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1653	1653	1653	1653	1653	
5°	1645	1644	1640	1645	1648	156
15°	1573	1569	1569	1579	1580	443
25°	1430	1424	1434	1449	1453	657
35°	1224	1223	1236	1250	1255	766
45°	987	984	997	1005	1010	761
55°	741	734	737	741	739	661
65°	490	482	479	475	471	487
75°	261	245	238	232	230	277
85°	61	56	47	38	35	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1653.3	1653.3	1653.3	1653.3	1653.3
2.5°	1651.9	1650.6	1646.5	1651.9	1653.3
5°	1645.1	1643.8	1639.7	1645.1	1647.8
7.5°	1634.3	1631.6	1628.9	1634.3	1637.0
10°	1618.1	1615.3	1612.6	1619.4	1622.1
12.5°	1597.7	1595.0	1595.0	1600.5	1603.2
15°	1573.4	1569.3	1569.3	1578.8	1580.1
17.5°	1542.2	1539.5	1540.9	1551.7	1555.8
20°	1507.0	1505.7	1509.7	1521.9	1526.0
22.5°	1467.8	1466.4	1473.2	1488.1	1490.8
25°	1429.8	1424.4	1433.9	1448.8	1452.9
27.5°	1382.5	1378.4	1390.6	1404.1	1408.2
30°	1333.7	1329.6	1341.8	1356.7	1360.8
32.5°	1280.9	1278.2	1290.4	1305.3	1309.3
35°	1224.0	1222.7	1236.2	1249.8	1255.2
37.5°	1167.2	1165.8	1180.7	1191.5	1192.9
40°	1108.9	1106.2	1118.4	1130.6	1132.0
42.5°	1049.4	1045.3	1058.8	1068.3	1072.4
45°	987.1	984.4	996.6	1004.7	1010.1
47.5°	923.4	923.4	930.2	939.7	941.0
50°	863.9	859.8	867.9	873.3	874.7
52.5°	801.6	797.5	804.3	805.6	808.4
55°	740.6	733.9	736.6	740.6	739.3
57.5°	677.0	666.2	671.6	671.6	674.3
60°	614.7	605.2	605.2	605.2	608.0
62.5°	552.4	543.0	543.0	541.6	540.3
65°	490.2	482.0	479.3	475.3	471.2
67.5°	430.6	421.1	415.7	410.3	406.2
70°	375.1	358.8	354.8	346.6	346.6
72.5°	319.5	303.3	295.2	289.8	288.4
75°	261.3	245.1	238.3	231.5	230.2
77.5°	204.5	193.6	182.8	177.4	174.7
80°	154.4	144.9	135.4	125.9	127.3
82.5°	105.6	96.1	89.4	81.2	78.5
85°	60.9	55.5	47.4	37.9	35.2
87.5°	25.7	19.0	13.5	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)