

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: P229837

Luminaire Tested: **24RLN-LD5-36-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229837
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-LD5-36-UNV-L830-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR
Light Source: (252)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3462.0 lumens
Efficiency: N/A
Efficacy: 130.6 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

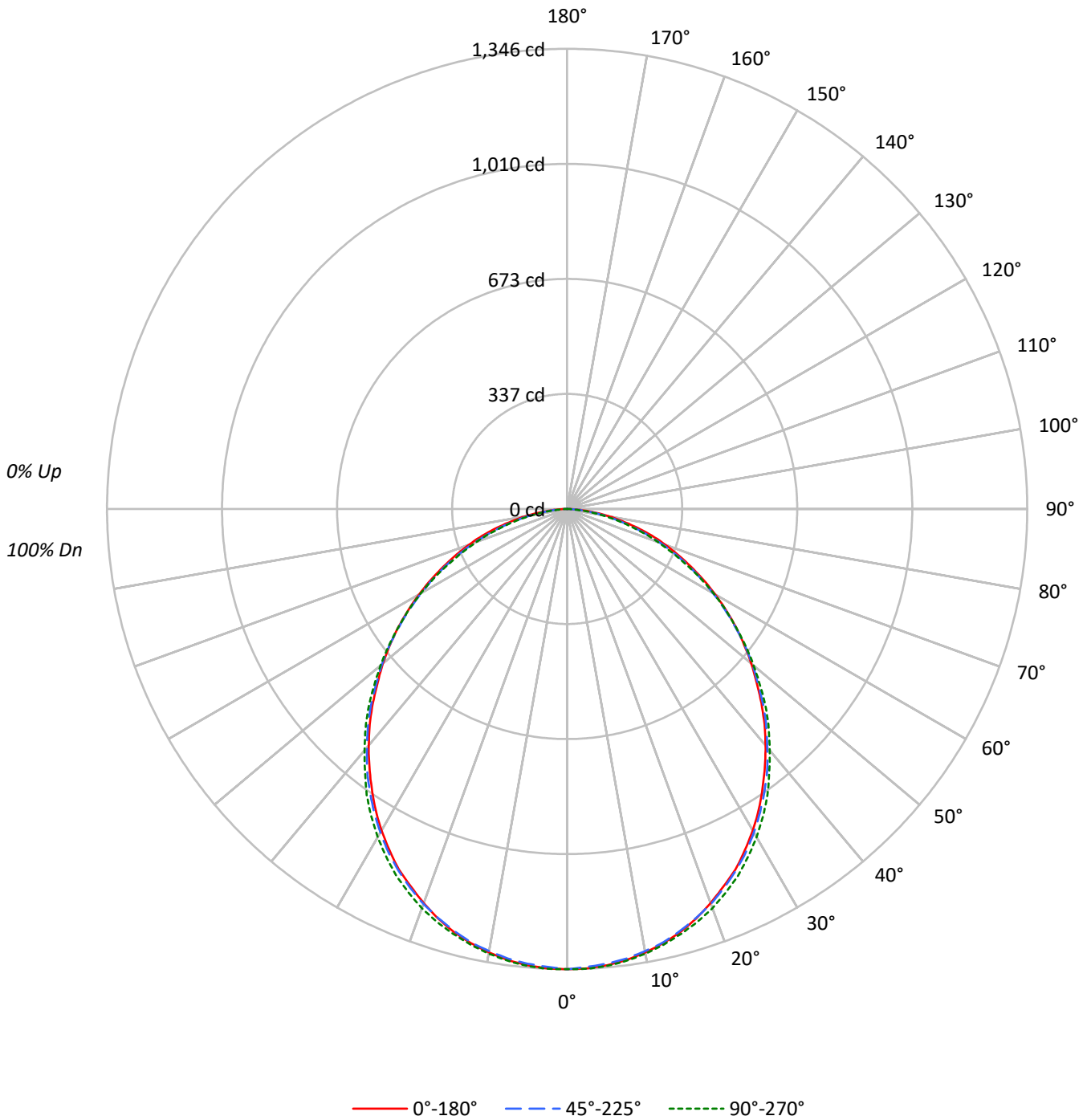
Input Watts (W): 26.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2062	2062	2062
5°	2060	2053	2063
10°	2049	2042	2054
15°	2031	2026	2040
20°	2000	2004	2025
25°	1968	1973	1999
30°	1921	1932	1960
35°	1863	1882	1911
40°	1805	1821	1843
45°	1741	1758	1781
50°	1676	1684	1697
55°	1610	1601	1607
60°	1533	1510	1516
65°	1446	1415	1391
70°	1368	1293	1264
75°	1259	1148	1109
80°	1109	972	914
85°	872	678	504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	3.7
10°-20°	361.2	10.4
20°-30°	538.4	15.6
30°-40°	629.5	18.2
40°-50°	625.1	18.1
50°-60°	536.8	15.5
60°-70°	386.7	11.2
70°-80°	208.2	6.0
80°-90°	49.1	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°	1026.7	29.7
0°-40°	1656.2	47.8
0°-60°	2818.0	81.4
0°-90°	3462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3462.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1346	1346	1346	1346	1346	
5°	1340	1338	1335	1340	1342	127
15°	1281	1278	1278	1286	1287	361
25°	1164	1160	1168	1180	1183	535
35°	997	996	1006	1018	1022	623
45°	804	802	811	818	822	620
55°	603	598	600	603	602	539
65°	399	392	390	387	384	396
75°	213	200	194	188	187	225
85°	50	45	39	31	29	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1346.1	1346.1	1346.1	1346.1	1346.1
2.5°	1345.0	1343.9	1340.6	1345.0	1346.1
5°	1339.5	1338.4	1335.1	1339.5	1341.7
7.5°	1330.7	1328.5	1326.2	1330.7	1332.9
10°	1317.4	1315.2	1313.0	1318.5	1320.7
12.5°	1300.9	1298.7	1298.7	1303.1	1305.3
15°	1281.0	1277.7	1277.7	1285.5	1286.6
17.5°	1255.7	1253.5	1254.6	1263.4	1266.7
20°	1227.0	1225.9	1229.2	1239.2	1242.5
22.5°	1195.1	1194.0	1199.5	1211.6	1213.8
25°	1164.2	1159.8	1167.5	1179.6	1182.9
27.5°	1125.6	1122.3	1132.2	1143.2	1146.5
30°	1085.9	1082.6	1092.5	1104.7	1108.0
32.5°	1042.9	1040.7	1050.6	1062.8	1066.1
35°	996.6	995.5	1006.5	1017.6	1022.0
37.5°	950.3	949.2	961.3	970.2	971.3
40°	902.9	900.7	910.6	920.5	921.6
42.5°	854.4	851.1	862.1	869.8	873.1
45°	803.7	801.5	811.4	818.0	822.4
47.5°	751.9	751.9	757.4	765.1	766.2
50°	703.4	700.1	706.7	711.1	712.2
52.5°	652.7	649.3	654.9	656.0	658.2
55°	603.0	597.5	599.7	603.0	601.9
57.5°	551.2	542.4	546.8	546.8	549.0
60°	500.5	492.8	492.8	492.8	495.0
62.5°	449.8	442.1	442.1	441.0	439.9
65°	399.1	392.5	390.3	387.0	383.7
67.5°	350.6	342.9	338.5	334.0	330.7
70°	305.4	292.1	288.8	282.2	282.2
72.5°	260.2	246.9	240.3	235.9	234.8
75°	212.8	199.5	194.0	188.5	187.4
77.5°	166.5	157.7	148.8	144.4	142.2
80°	125.7	118.0	110.2	102.5	103.6
82.5°	86.0	78.3	72.8	66.1	63.9
85°	49.6	45.2	38.6	30.9	28.7
87.5°	20.9	15.4	11.0	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)