

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: P229868

Luminaire Tested: **24RLN-LD5-42-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229868
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-LD5-42-UNV-L930-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3450.0 lumens
Efficiency: N/A
Efficacy: 110.6 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

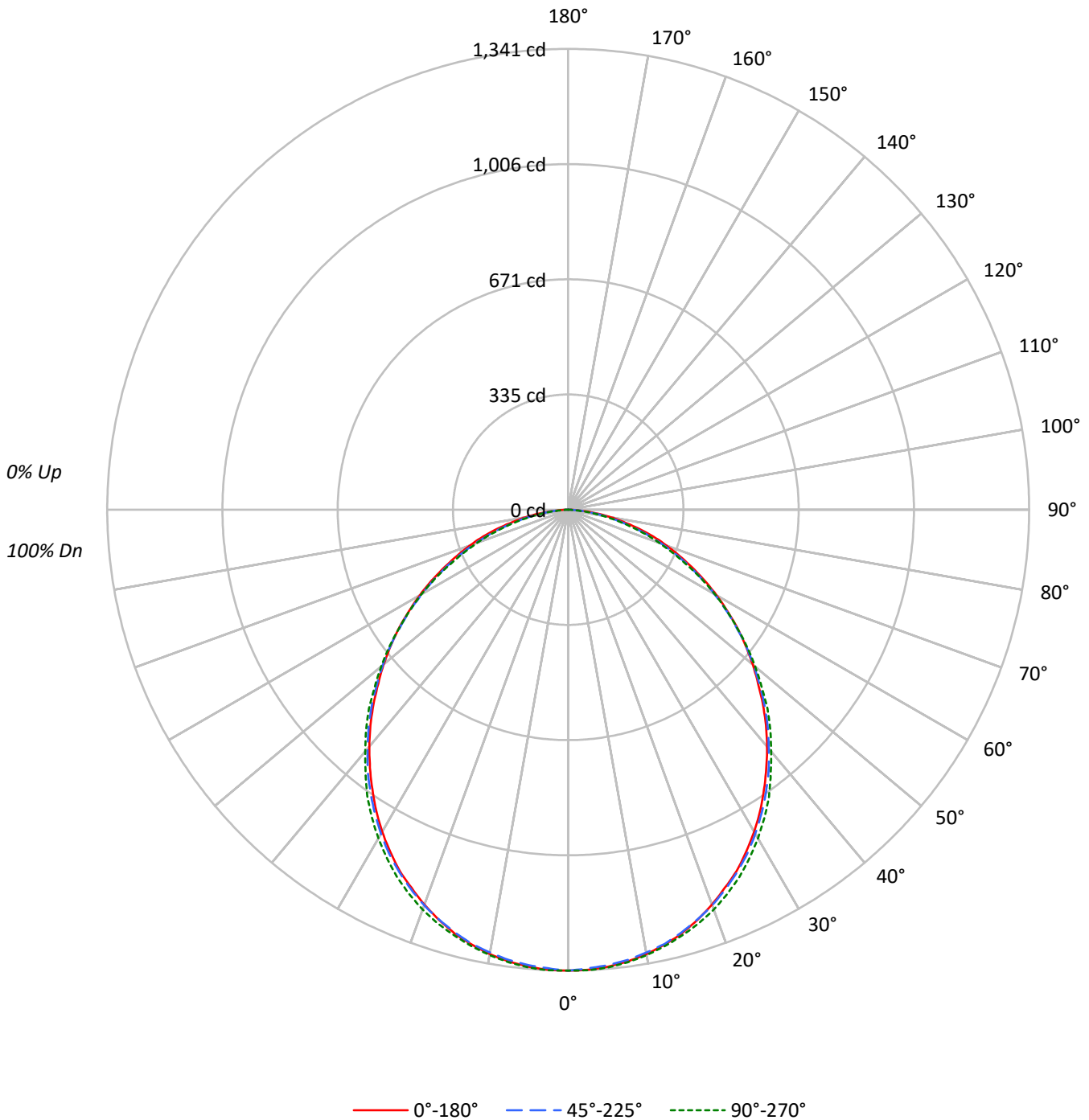
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2055	2055	2055
5°	2052	2046	2056
10°	2042	2035	2047
15°	2024	2019	2033
20°	1993	1997	2018
25°	1961	1966	1992
30°	1914	1925	1953
35°	1857	1875	1904
40°	1799	1814	1836
45°	1735	1752	1775
50°	1670	1678	1691
55°	1605	1596	1602
60°	1528	1504	1511
65°	1441	1409	1386
70°	1363	1289	1259
75°	1255	1145	1105
80°	1104	969	911
85°	868	677	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	3.7
10°-20°	360.0	10.4
20°-30°	536.6	15.6
30°-40°	627.3	18.2
40°-50°	622.9	18.1
50°-60°	534.9	15.5
60°-70°	385.3	11.2
70°-80°	207.5	6.0
80°-90°	48.9	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°	1023.2	29.7
0°-40°	1650.5	47.8
0°-60°	2808.3	81.4
0°-90°	3450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3450.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1341	1341	1341	1341	1341	
5°	1335	1334	1330	1335	1337	127
15°	1277	1273	1273	1281	1282	360
25°	1160	1156	1163	1176	1179	533
35°	993	992	1003	1014	1018	621
45°	801	799	809	815	820	618
55°	601	596	598	601	600	537
65°	398	391	389	386	382	395
75°	212	199	193	188	187	225
85°	49	45	38	31	29	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1340.3	1339.2	1335.9	1340.3	1341.4
5°	1334.8	1333.7	1330.4	1334.8	1337.0
7.5°	1326.0	1323.8	1321.7	1326.0	1328.2
10°	1312.9	1310.7	1308.5	1314.0	1316.2
12.5°	1296.4	1294.2	1294.2	1298.6	1300.8
15°	1276.6	1273.3	1273.3	1281.0	1282.1
17.5°	1251.3	1249.1	1250.2	1259.0	1262.3
20°	1222.8	1221.7	1225.0	1234.9	1238.2
22.5°	1190.9	1189.8	1195.3	1207.4	1209.6
25°	1160.2	1155.8	1163.4	1175.5	1178.8
27.5°	1121.7	1118.4	1128.3	1139.3	1142.6
30°	1082.2	1078.9	1088.7	1100.8	1104.1
32.5°	1039.3	1037.1	1047.0	1059.1	1062.4
35°	993.2	992.1	1003.0	1014.0	1018.4
37.5°	947.0	945.9	958.0	966.8	967.9
40°	899.8	897.6	907.5	917.4	918.5
42.5°	851.4	848.1	859.1	866.8	870.1
45°	800.9	798.7	808.6	815.2	819.6
47.5°	749.3	749.3	754.8	762.4	763.5
50°	700.9	697.6	704.2	708.6	709.7
52.5°	650.4	647.1	652.6	653.7	655.9
55°	601.0	595.5	597.7	601.0	599.9
57.5°	549.3	540.5	544.9	544.9	547.1
60°	498.8	491.1	491.1	491.1	493.3
62.5°	448.2	440.6	440.6	439.5	438.4
65°	397.7	391.1	388.9	385.6	382.3
67.5°	349.4	341.7	337.3	332.9	329.6
70°	304.3	291.1	287.8	281.2	281.2
72.5°	259.3	246.1	239.5	235.1	234.0
75°	212.0	198.9	193.4	187.9	186.8
77.5°	165.9	157.1	148.3	143.9	141.7
80°	125.2	117.6	109.9	102.2	103.3
82.5°	85.7	78.0	72.5	65.9	63.7
85°	49.4	45.0	38.5	30.8	28.6
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)