

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: P295959

Luminaire Tested: **24RLN-LD5-36-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295959  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24RLN-LD5-36-UNV-L93050-W2A1-U-3500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3122.0 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

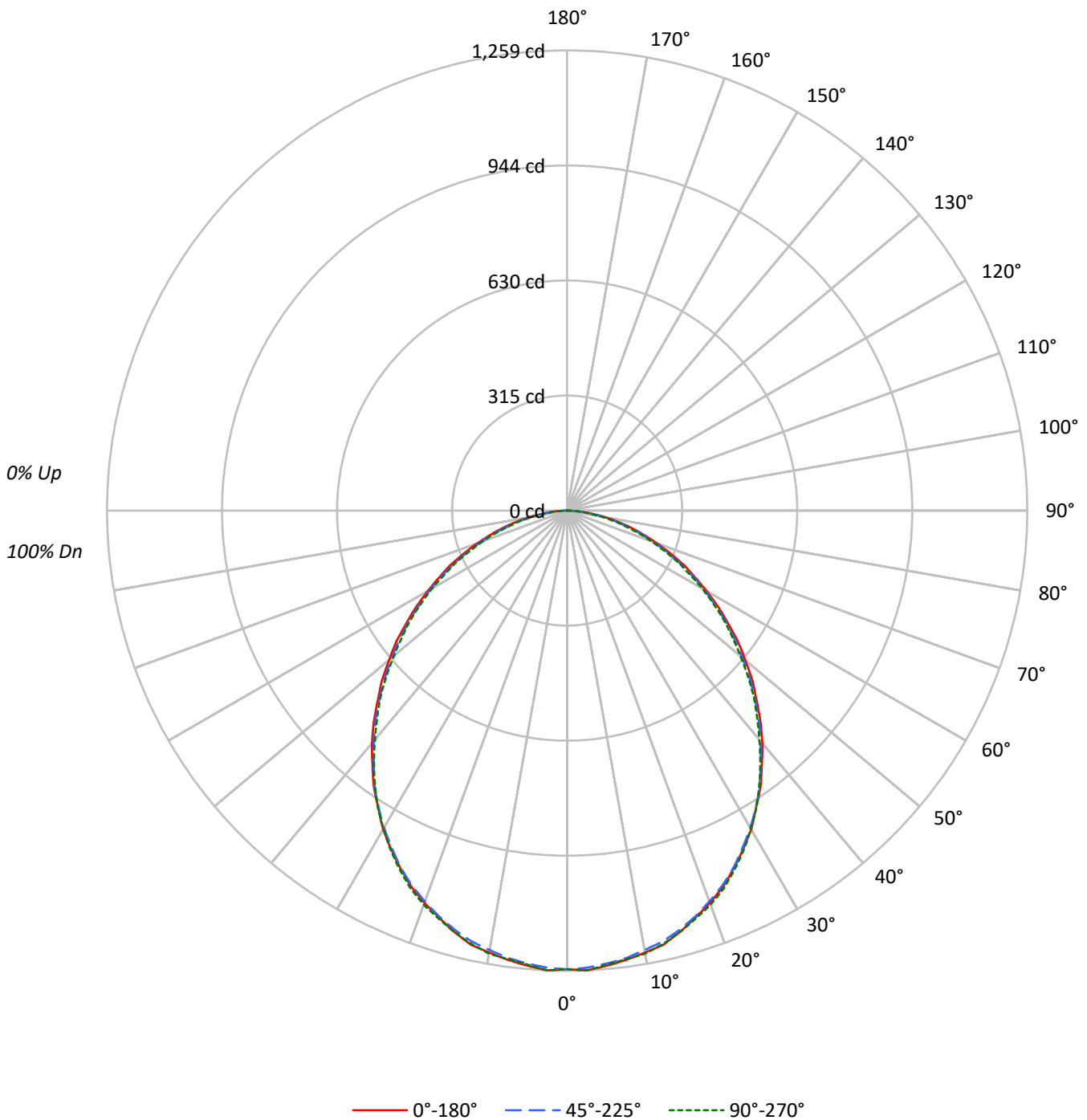
Input Watts (W): 25.668  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1689	1689	1689
5°	1688	1680	1684
10°	1677	1668	1682
15°	1662	1654	1662
20°	1635	1630	1643
25°	1603	1600	1609
30°	1565	1557	1562
35°	1515	1509	1505
40°	1459	1445	1436
45°	1393	1380	1374
50°	1330	1309	1294
55°	1259	1240	1228
60°	1184	1163	1149
65°	1119	1077	1068
70°	1026	987	967
75°	943	885	848
80°	828	773	726
85°	668	622	528



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.4	3.8
10°-20°	335.7	10.8
20°-30°	496.5	15.9
30°-40°	573.1	18.4
40°-50°	559.7	17.9
50°-60°	472.6	15.1
60°-70°	336.7	10.8
70°-80°	182.3	5.8
80°-90°	47.0	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°	950.6	30.4
0°-40°	1523.7	48.8
0°-60°	2556.0	81.9
0°-90°	3122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3122.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1255	1255	1255	1255	1255	
5°	1250	1250	1244	1247	1247	119
15°	1194	1188	1188	1192	1194	336
25°	1080	1074	1078	1082	1084	497
35°	923	916	919	916	916	576
45°	732	726	725	722	722	566
55°	537	530	529	524	524	481
65°	352	344	338	334	335	347
75°	181	175	170	166	163	192
85°	43	42	40	35	34	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1255.0	1255.0	1255.0	1255.0	1255.0
2.5°	1259.0	1253.9	1251.9	1252.9	1259.0
5°	1249.9	1249.9	1243.9	1246.9	1246.9
7.5°	1239.8	1240.9	1234.8	1239.8	1237.8
10°	1227.8	1224.7	1220.7	1228.8	1230.8
12.5°	1216.7	1209.6	1207.6	1212.7	1213.7
15°	1193.5	1188.5	1187.5	1192.5	1193.5
17.5°	1167.3	1168.3	1164.3	1171.4	1170.4
20°	1142.2	1140.1	1138.1	1146.2	1147.2
22.5°	1113.9	1107.9	1109.9	1117.0	1119.0
25°	1079.7	1073.7	1077.7	1081.7	1083.7
27.5°	1043.4	1040.4	1039.4	1044.5	1046.5
30°	1007.2	1002.2	1002.2	1008.2	1005.2
32.5°	962.9	958.8	960.9	962.9	963.9
35°	922.6	915.5	918.6	915.5	916.5
37.5°	875.2	870.2	869.2	868.2	868.2
40°	830.9	826.9	822.9	822.9	817.8
42.5°	782.6	777.5	775.5	772.5	769.5
45°	732.2	726.2	725.2	722.2	722.2
47.5°	686.9	677.8	676.8	670.8	670.8
50°	635.5	629.5	625.5	621.4	618.4
52.5°	589.2	583.2	577.1	573.1	570.1
55°	536.8	529.8	528.8	523.7	523.7
57.5°	489.5	483.4	479.4	473.4	474.4
60°	440.1	434.1	432.1	427.0	427.0
62.5°	393.8	388.8	385.8	380.7	376.7
65°	351.5	344.5	338.4	334.4	335.4
67.5°	305.2	297.1	294.1	290.1	287.0
70°	260.9	255.8	250.8	245.8	245.8
72.5°	219.6	214.5	211.5	205.5	203.5
75°	181.3	175.3	170.2	166.2	163.2
77.5°	143.0	137.0	134.0	128.9	128.9
80°	106.8	102.7	99.7	97.7	93.7
82.5°	73.5	71.5	68.5	65.5	62.4
85°	43.3	42.3	40.3	35.3	34.2
87.5°	17.1	17.1	15.1	14.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)