

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: P295960

Luminaire Tested: **24RLN-LD5-36-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295960  
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-4000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3372.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 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

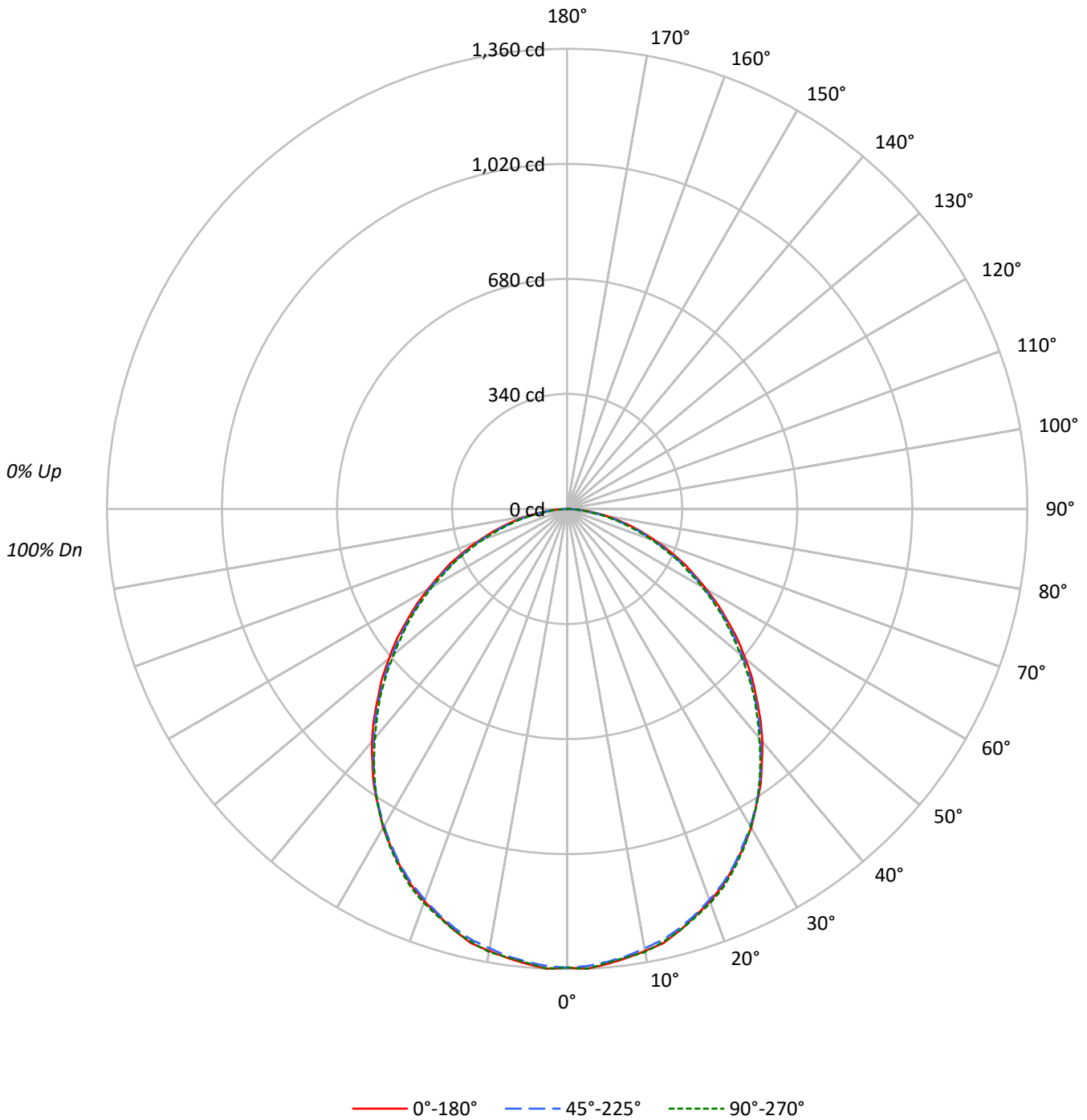
Input Watts (W): 25.854  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1824	1824	1824
5°	1823	1815	1819
10°	1812	1801	1816
15°	1796	1787	1796
20°	1766	1760	1774
25°	1731	1728	1738
30°	1690	1682	1687
35°	1637	1630	1626
40°	1576	1561	1551
45°	1505	1490	1484
50°	1437	1414	1398
55°	1360	1340	1327
60°	1279	1256	1241
65°	1209	1164	1153
70°	1109	1066	1044
75°	1018	955	916
80°	893	834	784
85°	722	672	571



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.9	3.8
10°-20°	362.6	10.8
20°-30°	536.3	15.9
30°-40°	618.9	18.4
40°-50°	604.5	17.9
50°-60°	510.5	15.1
60°-70°	363.6	10.8
70°-80°	196.9	5.8
80°-90°	50.8	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°	1026.8	30.4
0°-40°	1645.7	48.8
0°-60°	2760.7	81.9
0°-90°	3372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3372.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1355	1355	1355	1355	1355	
5°	1350	1350	1344	1347	1347	128
15°	1289	1284	1283	1288	1289	363
25°	1166	1160	1164	1168	1170	537
35°	996	989	992	989	990	622
45°	791	784	783	780	780	612
55°	580	572	571	566	566	520
65°	380	372	366	361	362	374
75°	196	189	184	180	176	207
85°	47	46	44	38	37	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1359.8	1354.4	1352.2	1353.3	1359.8
5°	1350.0	1350.0	1343.5	1346.7	1346.7
7.5°	1339.1	1340.2	1333.7	1339.1	1337.0
10°	1326.1	1322.8	1318.5	1327.2	1329.3
12.5°	1314.1	1306.5	1304.3	1309.8	1310.8
15°	1289.1	1283.7	1282.6	1288.0	1289.1
17.5°	1260.8	1261.9	1257.5	1265.2	1264.1
20°	1233.6	1231.4	1229.3	1238.0	1239.0
22.5°	1203.2	1196.6	1198.8	1206.4	1208.6
25°	1166.2	1159.6	1164.0	1168.3	1170.5
27.5°	1127.0	1123.7	1122.7	1128.1	1130.3
30°	1087.8	1082.4	1082.4	1088.9	1085.7
32.5°	1040.0	1035.6	1037.8	1040.0	1041.1
35°	996.5	988.8	992.1	988.8	989.9
37.5°	945.3	939.9	938.8	937.7	937.7
40°	897.5	893.1	888.8	888.8	883.3
42.5°	845.3	839.8	837.6	834.4	831.1
45°	790.9	784.3	783.2	780.0	780.0
47.5°	741.9	732.1	731.0	724.5	724.5
50°	686.4	679.9	675.5	671.2	667.9
52.5°	636.4	629.9	623.3	619.0	615.7
55°	579.8	572.2	571.1	565.7	565.7
57.5°	528.7	522.2	517.8	511.3	512.4
60°	475.4	468.9	466.7	461.2	461.2
62.5°	425.3	419.9	416.6	411.2	406.9
65°	379.7	372.0	365.5	361.2	362.3
67.5°	329.6	320.9	317.6	313.3	310.0
70°	281.8	276.3	270.9	265.4	265.4
72.5°	237.1	231.7	228.4	221.9	219.7
75°	195.8	189.3	183.8	179.5	176.2
77.5°	154.5	147.9	144.7	139.2	139.2
80°	115.3	111.0	107.7	105.5	101.2
82.5°	79.4	77.2	74.0	70.7	67.4
85°	46.8	45.7	43.5	38.1	37.0
87.5°	18.5	18.5	16.3	15.2	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)