

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: P295873

Luminaire Tested: **24RLN-LD5-36-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295873  
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-L82765-W2A1-U-3000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3468.0 lumens  
Efficiency: N/A  
Efficacy: 138.6 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

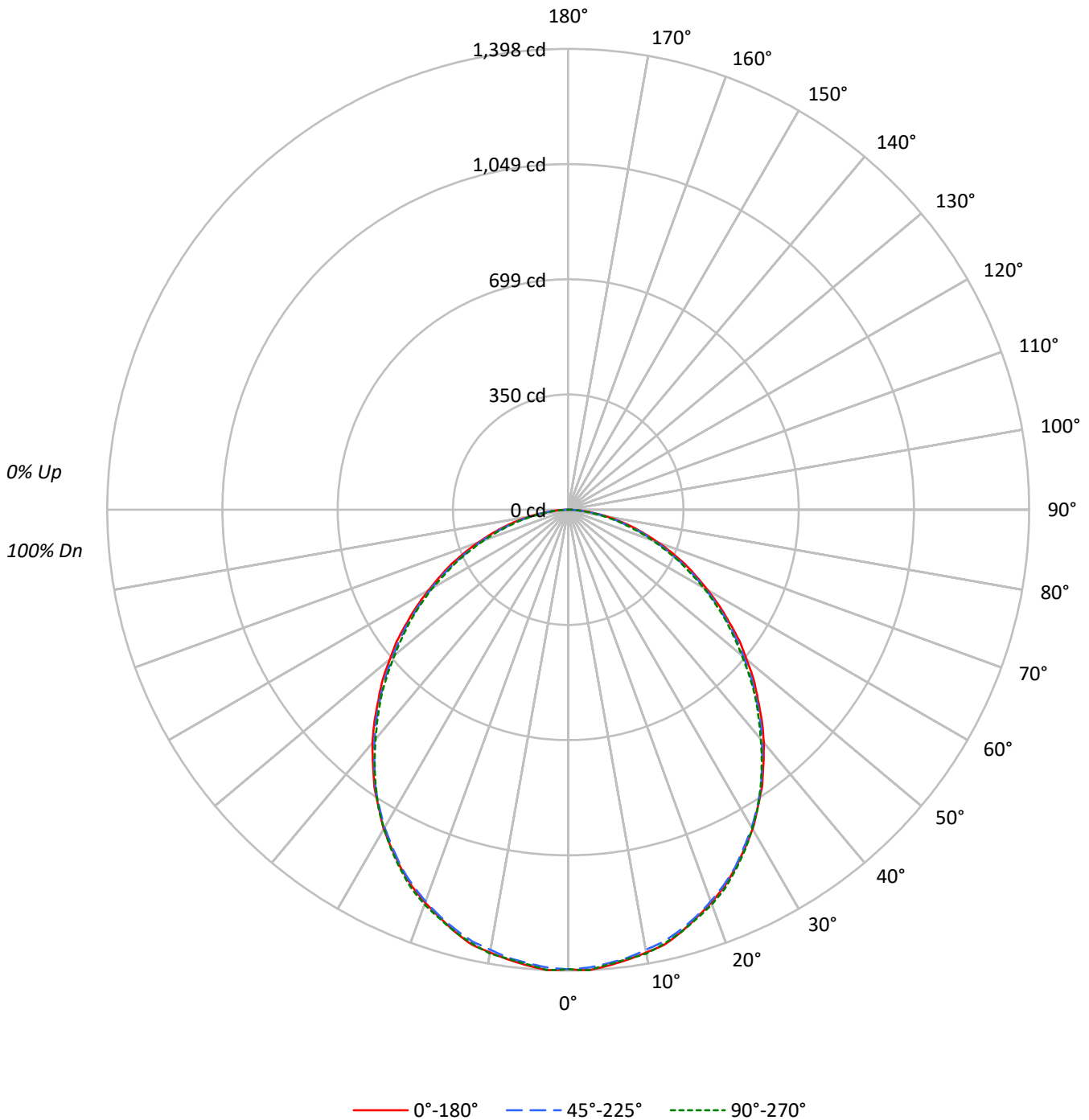
Input Watts (W): 25.017  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1876	1876	1876
5°	1875	1866	1871
10°	1863	1853	1868
15°	1847	1837	1847
20°	1817	1810	1825
25°	1781	1777	1787
30°	1738	1730	1735
35°	1683	1676	1672
40°	1621	1606	1596
45°	1548	1533	1526
50°	1478	1454	1438
55°	1399	1378	1365
60°	1316	1292	1277
65°	1243	1197	1186
70°	1140	1096	1074
75°	1047	983	942
80°	919	859	806
85°	743	692	587



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.5	3.8
10°-20°	372.9	10.8
20°-30°	551.6	15.9
30°-40°	636.6	18.4
40°-50°	621.7	17.9
50°-60°	525.0	15.1
60°-70°	374.0	10.8
70°-80°	202.5	5.8
80°-90°	52.2	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°	1056.0	30.4
0°-40°	1692.6	48.8
0°-60°	2839.3	81.9
0°-90°	3468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3468.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1388	1388	1382	1385	1385	132
15°	1326	1320	1319	1325	1326	373
25°	1199	1193	1197	1202	1204	552
35°	1025	1017	1020	1017	1018	640
45°	813	807	806	802	802	629
55°	596	588	587	582	582	535
65°	390	383	376	371	373	385
75°	201	195	189	185	181	213
85°	48	47	45	39	38	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1394.0	1394.0	1394.0	1394.0	1394.0
2.5°	1398.5	1392.9	1390.7	1391.8	1398.5
5°	1388.4	1388.4	1381.7	1385.1	1385.1
7.5°	1377.3	1378.4	1371.7	1377.3	1375.0
10°	1363.8	1360.5	1356.0	1364.9	1367.2
12.5°	1351.5	1343.7	1341.5	1347.0	1348.2
15°	1325.8	1320.2	1319.1	1324.7	1325.8
17.5°	1296.7	1297.8	1293.3	1301.2	1300.1
20°	1268.7	1266.5	1264.3	1273.2	1274.3
22.5°	1237.4	1230.7	1232.9	1240.8	1243.0
25°	1199.4	1192.7	1197.1	1201.6	1203.8
27.5°	1159.1	1155.7	1154.6	1160.2	1162.4
30°	1118.8	1113.2	1113.2	1119.9	1116.6
32.5°	1069.6	1065.1	1067.3	1069.6	1070.7
35°	1024.8	1017.0	1020.4	1017.0	1018.1
37.5°	972.2	966.7	965.5	964.4	964.4
40°	923.0	918.5	914.1	914.1	908.5
42.5°	869.3	863.7	861.5	858.1	854.8
45°	813.4	806.7	805.5	802.2	802.2
47.5°	763.0	753.0	751.8	745.1	745.1
50°	706.0	699.3	694.8	690.3	686.9
52.5°	654.5	647.8	641.1	636.6	633.2
55°	596.3	588.5	587.4	581.8	581.8
57.5°	543.7	537.0	532.6	525.8	527.0
60°	488.9	482.2	480.0	474.4	474.4
62.5°	437.5	431.9	428.5	422.9	418.4
65°	390.5	382.6	375.9	371.4	372.6
67.5°	339.0	330.0	326.7	322.2	318.9
70°	289.8	284.2	278.6	273.0	273.0
72.5°	243.9	238.3	235.0	228.2	226.0
75°	201.4	194.7	189.1	184.6	181.2
77.5°	158.9	152.2	148.8	143.2	143.2
80°	118.6	114.1	110.8	108.5	104.0
82.5°	81.7	79.4	76.1	72.7	69.4
85°	48.1	47.0	44.8	39.2	38.0
87.5°	19.0	19.0	16.8	15.7	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)