

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: P295880

Luminaire Tested: **24RLN-LD5-36-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295880  
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-6500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3839.0 lumens  
Efficiency: N/A  
Efficacy: 145.9 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

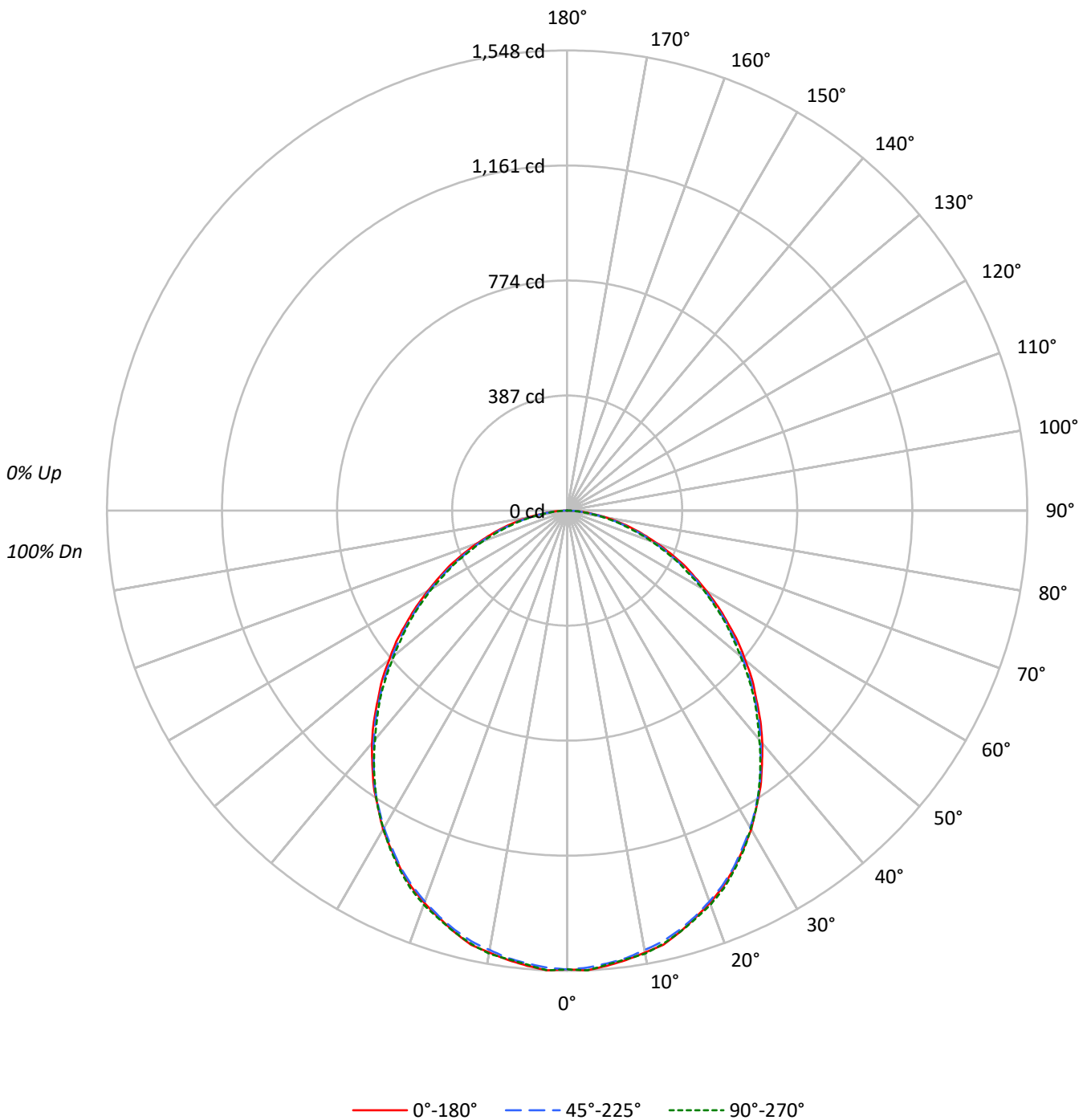
Input Watts (W): 26.319  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2076	2076	2076
5°	2076	2066	2071
10°	2063	2051	2068
15°	2044	2034	2044
20°	2011	2004	2020
25°	1971	1967	1978
30°	1924	1915	1920
35°	1863	1855	1851
40°	1795	1777	1766
45°	1713	1697	1690
50°	1636	1610	1592
55°	1548	1525	1511
60°	1456	1430	1413
65°	1376	1325	1313
70°	1262	1213	1189
75°	1159	1088	1043
80°	1017	950	893
85°	823	764	650



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.6	3.8
10°-20°	412.8	10.8
20°-30°	610.6	15.9
30°-40°	704.7	18.4
40°-50°	688.2	17.9
50°-60°	581.2	15.1
60°-70°	414.0	10.8
70°-80°	224.1	5.8
80°-90°	57.8	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°	1169.0	30.4
0°-40°	1873.6	48.8
0°-60°	3143.1	81.9
0°-90°	3839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3839.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1543	1543	1543	1543	1543	
5°	1537	1537	1530	1533	1533	146
15°	1468	1461	1460	1466	1468	413
25°	1328	1320	1325	1330	1333	611
35°	1134	1126	1130	1126	1127	708
45°	900	893	892	888	888	696
55°	660	652	650	644	644	592
65°	432	424	416	411	412	426
75°	223	216	209	204	201	236
85°	53	52	50	43	42	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1543.2	1543.2	1543.2	1543.2	1543.2
2.5°	1548.1	1541.9	1539.5	1540.7	1548.1
5°	1537.0	1537.0	1529.5	1533.3	1533.3
7.5°	1524.6	1525.8	1518.4	1524.6	1522.1
10°	1509.7	1506.0	1501.1	1511.0	1513.4
12.5°	1496.1	1487.4	1485.0	1491.2	1492.4
15°	1467.6	1461.4	1460.2	1466.4	1467.6
17.5°	1435.4	1436.7	1431.7	1440.4	1439.1
20°	1404.5	1402.0	1399.5	1409.4	1410.6
22.5°	1369.8	1362.3	1364.8	1373.5	1376.0
25°	1327.7	1320.2	1325.2	1330.1	1332.6
27.5°	1283.1	1279.4	1278.1	1284.3	1286.8
30°	1238.5	1232.3	1232.3	1239.7	1236.0
32.5°	1184.0	1179.1	1181.5	1184.0	1185.2
35°	1134.5	1125.8	1129.5	1125.8	1127.0
37.5°	1076.3	1070.1	1068.8	1067.6	1067.6
40°	1021.8	1016.8	1011.9	1011.9	1005.7
42.5°	962.3	956.1	953.6	949.9	946.2
45°	900.4	893.0	891.7	888.0	888.0
47.5°	844.7	833.5	832.3	824.8	824.8
50°	781.5	774.1	769.1	764.2	760.4
52.5°	724.5	717.1	709.7	704.7	701.0
55°	660.1	651.5	650.2	644.0	644.0
57.5°	601.9	594.5	589.5	582.1	583.3
60°	541.2	533.8	531.3	525.1	525.1
62.5°	484.3	478.1	474.3	468.2	463.2
65°	432.2	423.6	416.1	411.2	412.4
67.5°	375.3	365.4	361.6	356.7	353.0
70°	320.8	314.6	308.4	302.2	302.2
72.5°	270.0	263.8	260.1	252.7	250.2
75°	222.9	215.5	209.3	204.4	200.6
77.5°	175.9	168.4	164.7	158.5	158.5
80°	131.3	126.3	122.6	120.1	115.2
82.5°	90.4	87.9	84.2	80.5	76.8
85°	53.3	52.0	49.5	43.3	42.1
87.5°	21.1	21.1	18.6	17.3	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)